Check Sheet

Company Name: NAVAL AIR STATION : CECIL FIELD
Permit Number: AC 16-67736, -67737
PSD Number:
Permit Engineer:

Application:

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

Cross References:
- ☐
- ☐
- ☐

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

DEPARTMENT OF THE NAVY
NAVAL AIR STATION
CECIL FIELD, FLORIDA 32215-5000

5090
2000
10 Feb 93

Mr. Wayne L. Walker
Engineering Technician
Air Quality Division
Towncentre - Suite 412
421 West Church Street
Jacksonville, Fl. 32202-4111

Gentlemen,

Enclosed enclosed are copies of Visible Emissions Test Results for Jet Engine Test Cells in buildings 334 and 811 Naval Air Station Cecil Field, Fl. Permit No. A016-193605. AO 114376 01/08/86

The Test Cell located in building 339 is currently under rehab and is expected to completed during the second quarter on this year. A Visual Emission Test will be performed at that time.

Please note that the attached certification card does not show the current certification date. Recertification was attained during the December 1992 ETA course in Jacksonville. Invoice payment will be completed this month and a current card will be issued. Please notify if verification of certification is necessary after completion of the invoice payment process.

If you have any questions regarding this matter, please contact Mr. David E. Kohler at (904) 778-5620.

Sincerely,

Basit Ghori
Environmental Director

RECEIVED
FEB 25 19
Bureau of Air Mon
& Mobile Sources

Encl:
(1) Annual Air Report for 1992

Blind Copy to:
FDER (Jacksonville)
FDER (Tallahassee)
EPA (Atlanta)
SOUTHNAVFACENGCOM (Code 114)
NEESA

RECEIVED
FEB 25 1993
Division of Air
Resources Management

RECEIVED
FEB 22 1993

BEST AVAILABLE COPY

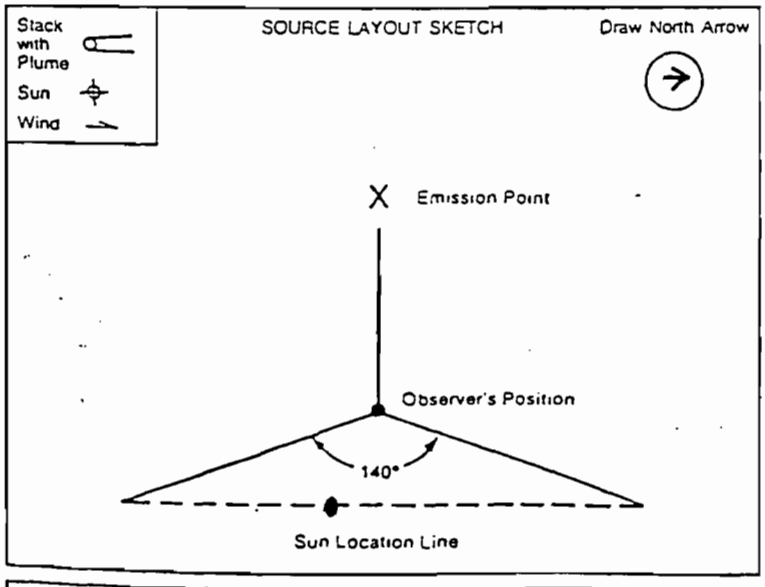
VISIBLE EMISSION OBSERVATION FORM

No. 93-334-1

COMPANY NAME	NAS Cecil Field
STREET ADDRESS	P.O. Box 108 (Code 184B2)
CITY	Jacksonville
STATE	Fl.
ZIP	32215
PHONE (KEY CONTACT)	(904) 778-5620
SOURCE ID NUMBER	A016-193605
PROCESS EQUIPMENT	Bldg 334 TF-41 Jet Engine
OPERATING MODE	Test Cycle
CONTROL EQUIPMENT	N/A
OPERATING MODE	N/A
DESCRIBE EMISSION POINT	20' x 20' Square Stack
HEIGHT ABOVE GROUND LEVEL	40'
HEIGHT RELATIVE TO OBSERVER	Start 40' End 40'
DISTANCE FROM OBSERVER	Start 60' End 60'
DIRECTION FROM OBSERVER	Start S-W End S-W
DESCRIBE EMISSIONS	Start Clear End Clear
EMISSION COLOR	Start Colorless End Colorless
IF WATER DROPLET PLUME	Attached ☐ N/A Detached ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	Start All End All
DESCRIBE PLUME BACKGROUND	Start Sky End Sky
BACKGROUND COLOR	Start Gray End Gray
SKY CONDITIONS	Start Partly Cloudy End Partly Cloudy
WIND SPEED	Start 5K End 5K
WIND DIRECTION	Start N.E. End N.E.
AMBIENT TEMP	Start 60° End 60°
WET BULB TEMP	
RH, percent	

SOURCE LAYOUT SKETCH

Draw North Arrow



ADDITIONAL INFORMATION

OBSERVATION DATE	START TIME	END TIME
2-9-93	9:05	10:05

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	Recertification
26	0	0	0	0	Attained Dec. 1992.
27	0	0	0	0	Payment in Process
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

THIS IS TO CERTIFY THAT
DAVID KOHLER, has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9.
THIS CERTIFICATE EXPIRES Dec 2, 1992

Michael P. Clark
CERTIFICATE OFFICER

David E. Kohler
BEARER'S SIGNATURE

CLOSED
RES. MGR.
FEB 22 1993

OBSERVER'S NAME (PRINT)	David E. Kohler
OBSERVER'S SIGNATURE	David E. Kohler
DATE	2-9-93
ORGANIZATION	Environmental Dept. NAS Cecil Field
CERTIFIED BY	FDER (ETA)
DATE	

CONTINUED ON VEO FORM NUMBER 9 3 3 3 4 2

BEST AVAILABLE COPY

VISIBLE EMISSION OBSERVATION FORM

No. 93-334-2

COMPANY NAME	NAS Cecil Field
STREET ADDRESS	P.O. Box 108 (Code 184B2)
CITY	Jacksonville
STATE	Fl.
ZIP	32215
PHONE (KEY CONTACT)	(904) 778-5620
SOURCE ID NUMBER	A016-193605
PROCESS EQUIPMENT	BHG 334 ~~FH~~ TF-41 Jet Engine
OPERATING MODE	Test Cycle
CONTROL EQUIPMENT	N/A
OPERATING MODE	N/A
DESCRIBE EMISSION POINT	20' x 20' Square Stack
HEIGHT ABOVE GROUND LEVEL	40'
HEIGHT RELATIVE TO OBSERVER	Start 40' End 40'
DISTANCE FROM OBSERVER	Start 60' End 60'
DIRECTION FROM OBSERVER	Start S.W. End S.W.
DESCRIBE EMISSIONS	Start Clear End Clear
EMISSION COLOR	Start Colorless End Colorless
IF WATER DROPLET PLUME	Attached ☐ N/A Detached ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	Start All End All
DESCRIBE PLUME BACKGROUND	Start Sky End Sky
BACKGROUND COLOR	Start Grey End Grey
SKY CONDITIONS	Start Partly Cloudy Partly Cloudy
WIND SPEED	Start 5K End 5K
WIND DIRECTION	Start N.E. End N.E
AMBIENT TEMP	Start 60° End 60°
WET BULB TEMP	
RH, percent	

OBSERVATION DATE: 2-9-93 START TIME: 9:05 END TIME: 10:05

MIN \ SEC	0	15	30	45	COMMENTS
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20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	Recertification
25	0	0	0	0	Attained Dec. 1992.
26	0	0	0	0	Payment in Process
27	0	0	0	0	
28	0	0	0	0	
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30	0	0	0	0	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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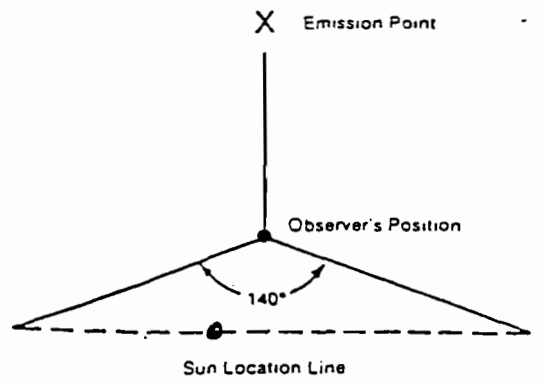
THIS CERTIFICATE EXPIRES Dec 2, 1992

Michael P. Clark — CERTIFICATE OFFICER
David E. Kohler — BEARER'S SIGNATURE

SOURCE LAYOUT SKETCH

Stack with Plume
Sun
Wind

Draw North Arrow



ADDITIONAL INFORMATION

OBSERVER'S NAME (PRINT)	David E. Kohler
OBSERVER'S SIGNATURE	David E. Kohler
DATE	2-9-93
ORGANIZATION	Environmental Dept. Cecil Field
CERTIFIED BY	FDER (ETA)
DATE	

CONTINUED ON VEO FORM NUMBER

BEST AVAILABLE COPY

VISIBLE EMISSION OBSERVATION FORM

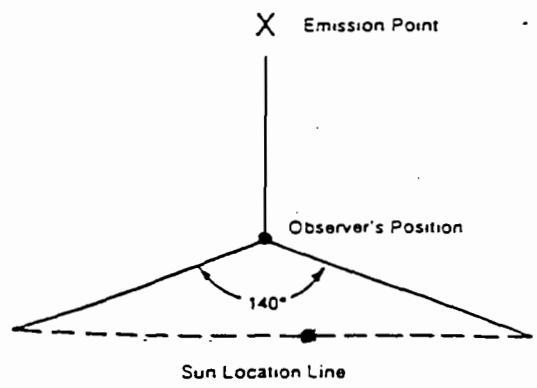
No. 93-811-1

COMPANY NAME	NAS Cecil Field
STREET ADDRESS	P.O. Box 108 (Code 184B2)
CITY	Jacksonville
STATE	Fl.
ZIP	32215
PHONE (KEY CONTACT)	(904) 778-5620
SOURCE ID NUMBER	A016-193605
PROCESS EQUIPMENT	Bldg 811 TF-34 Jet Engine
OPERATING MODE	Test Cycle
CONTROL EQUIPMENT	N/A
OPERATING MODE	N/A
DESCRIBE EMISSION POINT	15' x 15' Square Stack
HEIGHT ABOVE GROUND LEVEL	25'
HEIGHT RELATIVE TO OBSERVER	Start 25' End 25'
DISTANCE FROM OBSERVER	Start 100' End 100'
DIRECTION FROM OBSERVER	Start N.W. End N.W.
DESCRIBE EMISSIONS	Start Clear End Clear
EMISSION COLOR	Start Colorless End Colorless
IF WATER DROPLET PLUME	Attached ☐ N/A Detached ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	Start All End All
DESCRIBE PLUME BACKGROUND	Start Trees End Trees
BACKGROUND COLOR	Start Green End Green
SKY CONDITIONS	Start Clear End Clear
WIND SPEED	Start 5K End 5K
WIND DIRECTION	Start N.W. End N.W.
AMBIENT TEMP	Start 60° End 60°
WET BULB TEMP	
RH, percent	

SOURCE LAYOUT SKETCH

Stack with Plume
Sun
Wind

Draw North Arrow



ADDITIONAL INFORMATION

OBSERVATION DATE	START TIME	END TIME
2-9-93	9:10	10:10

MIN \ SEC	0	15	30	45	COMMENTS
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23	0	0	0	0	
24	0	0	0	0	Recertification
25	0	0	0	0	Attained Dec. 1992
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30	0	0	0	0	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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Michael R. Clark — CERTIFICATE OFFICER
David E. Kohler — BEARER'S SIGNATURE

RECEIVED FEB 22 1993

OBSERVER'S NAME (PRINT)	David E. Kohler
OBSERVER'S SIGNATURE	David E. Kohler
DATE	2-9-93
ORGANIZATION	Environmental Dept. Cecil Field
CERTIFIED BY	FDER (ETA)
DATE	

CONTINUED ON VEO FORM NUMBER 9 3 8 1 1 2

BEST AVAILABLE COPY

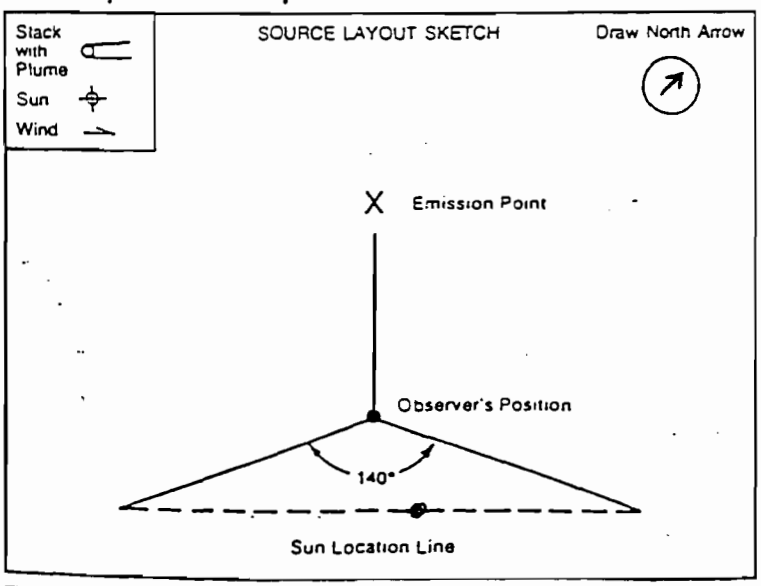
VISIBLE EMISSION OBSERVATION FORM

No. 93-811-2

COMPANY NAME	NAS Cecil Field
STREET ADDRESS	P.O. Box 108 (Code 184B2)
CITY	Jacksonville
STATE	Fl.
ZIP	32215
PHONE (KEY CONTACT)	(904) 778-5620
SOURCE ID NUMBER	A016-193605
PROCESS EQUIPMENT	Bldg 811 TF-34 Jet Engine
OPERATING MODE	Test Cycle
CONTROL EQUIPMENT	N/A
OPERATING MODE	N/A
DESCRIBE EMISSION POINT	15' x 15' Square Stack
HEIGHT ABOVE GROUND LEVEL	25'
HEIGHT RELATIVE TO OBSERVER	Start 25' End 25'
DISTANCE FROM OBSERVER	Start 100' End 100'
DIRECTION FROM OBSERVER	Start N.W. End N.W.
DESCRIBE EMISSIONS	Start Clear End Clear
EMISSION COLOR	Start Colorless End Colorless
IF WATER DROPLET PLUME	Attached ☐ N/A Detached ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	Start All End All
DESCRIBE PLUME BACKGROUND	Start Trees End Trees
BACKGROUND COLOR	Start Green End Green
SKY CONDITIONS	Start Clear End Clear
WIND SPEED	Start 5K End 5K
WIND DIRECTION	Start N.W. End N.W.
AMBIENT TEMP	Start 60° End 60°
WET BULB TEMP	
RH, percent	

SOURCE LAYOUT SKETCH

Draw North Arrow



ADDITIONAL INFORMATION

OBSERVATION DATE	START TIME	END TIME
2-9-93	9:10	10:10

MIN \ SEC	0	15	30	45	COMMENTS
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24	0	0	0	0	
25	0	0	0	0	Recertification
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29	0	0	0	0	
30	0	0	0	0	

STATE OF FLORIDA
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Michael P. Clark — CERTIFICATE OFFICER
David E. Kohler — BEARER'S SIGNATURE

OBSERVER'S NAME (PRINT)	David E. Kohler
OBSERVER'S SIGNATURE	David E Kohler
DATE	2-9-93
ORGANIZATION	Environmental Dept. Cecil Field.
CERTIFIED BY	FDER (ETA)
DATE	
CONTINUED ON VEO FORM NUMBER	

FEB 22 1993

DEPARTMENT OF THE NAVY
NAVAL AIR STATION
CECIL FIELD, FLORIDA 32215-5000

6280
Code 18E

26 OCT 1988

RECEIVED
OCT 31 1988
DER-BAQM

Bio Environmental Service Division
Air Pollution Control
421 W. Church St.
Suite 412
Jacksonville, FL 32202-4111

Subj: RENEWAL OF OPERATING PERMIT APPLICATIONS NO. A016-73248 AND A016-73249

Gentlemen:

As requested by your letter of Oct 5 1988, the following items are submitted for renewal of Air Permits for Walnut Shellblast Booth and Steam Generator No. 25.

If you have any questions concerning this information, please contact Mr. John Dingwall P.E., Environmental Engineer at (904) 778-6495.

DEANE E. LEIDHOLT
Commander, U.S. Navy
Public Works Officer
By direction of
the Commanding Officer

Encl:
(1) Check for $300.00
(2) Visible Enissions Comp Test for each source
(3) Page one of current Permits for Steam Generator #25 Walnut Shellblast Booth
(4) Notarized and corrected Applications (w/o 3 copies)

Copy to:
FDER (Tallahasse)
SOUTHNAVFACENGCOM (Code 114)

RECEIVED
BUR. OF PERM.
OCT 31 1988

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION) Bureau Air Quality Rm. 338	Initial	
	Date	
2.	Initial	
	Date	
3. Bill - Do you know why we got this? Patty	Initial	
	Date	
4.	Initial	
	Date	

REMARKS:

RECEIVED
OCT 31 1988
DER - BAQM

Apparently info only since we do have files on Cecil Field — have done some construction permits for them I'd suggest that it be filed there.
BT

INFORMATION

- Review & Return
- Review & File
- Initial & Forward

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: BWRM

DATE 10-31-88

PHONE

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

October 5, 1988

Deane E. Leidholt, CDR, CEC, USN, PWO
Naval Air Station
Cecil Field, Florida 32215

Subject: Operating Permit Renewal Applications, 6280 CODE 18E Nos. AO16-154852 Walnut Shell Blast Booth and AO16-154853 Steam Generator No. 25 Incomplete applications - Additional information required

Dear Mr. Leidholt:

The above referenced applications have been placed in abeyance, pending Bio-Environmental Services Division's receipt of the following for each application:

1. Check made payable to the Tax Collector, City of Jacksonville in the amount of $150.00 (application review fee as per City Ordinance 87-984-548)

2. UTM coordinates for the source

3. Visible emissions compliance test (EPA Reference Method 9) on the Blast Booth and Steam Generator No. 25

4. Notarization of the Permit Renewal Applications

5. Page 1, current Steam Generating Boiler Permit No. is AO16-73248. Current Walnut Blast Booth Permit No. is AO16-73249. Please clarify the discrepancy in application.

6. Corrected Renewal Application, plus three copies

Receipt of the above information shall start the 90 day default date for this permit. Any questions in this matter should be directed to the undersigned at (904) 630-3666.

Very truly yours,

Darrel J. Hall

Darrel J. Hall
Pollution Control Specialist

RECEIVED
BUR. OF PERM.
OCT 31 1988

DJH/rlj/1/47

cc: Commanding Officer, SOUTH NAV FAC ENG COM
Mr. Bill Stewart, P.E., DER
BESD File 1900-B, 1900-D
BESD Air Permitting File

BEST AVAILABLE COPY

B25SP 88-1

EASTERN TECHNICAL ASSOCIATES 919-834-2070

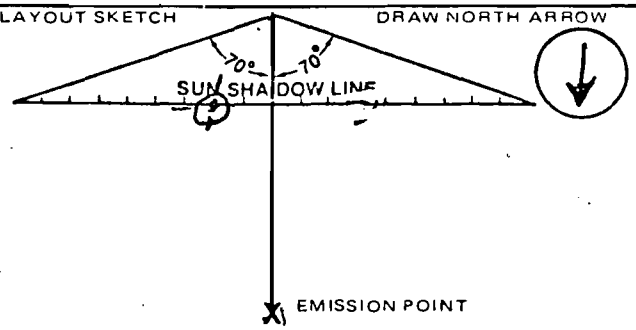
VISIBLE EMISSION OBSERVATION FORM

2412 ATLANTIC AVE.
P.O. BOX 58495
RALEIGH NC 27658

SOURCE NAME	NAS CECIL FIELD
ADDRESS	BLDG 11, STEAM PLANT
STATE	FL
ZIP	32215
TELEPHONE	778-5620
SOURCE ID NUMBER	A016-73248
OBSERVATION DATE	4 Oct 88
PROCESS	BOILER #25
OPERATING MODE	
CONTROL EQUIPMENT	NONE
OPERATING MODE	
DESCRIBE EMISSION POINT	CIRCULAR STACK
HEIGHT ABOVE GROUND LEVEL	60'
HEIGHT RELATIVE TO OBSERVER	60'
DISTANCE FROM OBSERVER	300'
DIRECTION FROM OBSERVER	N
DESCRIBE EMISSIONS	NONE
EMISSION COLOR	COLORLESS
PLUME TYPE	CONTINUOUS ☐ INTERMITTENT ☐ FUGITIVE ☐ —
WATER DROPLETS PRESENT	NO ☐ YES ☐ —
IF YES, IS PLUME	ATTACHED ☐ — DETACHED ☐
AT WHAT POINT WAS OPACITY DETERMINED	N/A
DESCRIBE BACKGROUND	PC SKY
BACKGROUND COLOR	WHITE/BLUE
SKY CONDITIONS	PC
WIND SPEED	4 MPH
WIND DIRECTION	N
AMBIENT TEMPERATURE	73°F
RELATIVE HUMIDITY	73%

COMMENTS

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVER'S NAME (PRINT)	
ORGANIZATION	
CERTIFIED BY	DATE

START TIME 1345 STOP TIME 1445

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27	Ø	Ø	Ø	Ø	57	Ø	Ø	Ø	Ø
28	Ø	Ø	Ø	Ø	58	Ø	Ø	Ø	Ø
29	Ø	Ø	Ø	Ø	59	Ø	Ø	Ø	Ø
30	Ø	Ø	Ø	Ø	60	Ø	Ø	Ø	Ø

AVERAGE OPACITY FOR FOR HIGHEST PERIOD Ø

NUMBER OF READINGS ABOVE 20% WERE NONE

RECEIVED BUR. OF AIR MGMT. OCT 31 1988

RANGE OF OPACITY READINGS MINIMUM Ø MAXIMUM Ø

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.

SIGNATURE

TITLE DATE

JOHN D INGWALL

OBSERVER'S SIGNATURE John D Ingwall DATE 4 Oct 88

VERIFIED BY

BEST AVAILABLE COPY

VISIBLE EMISSION OBSERVATION FORM

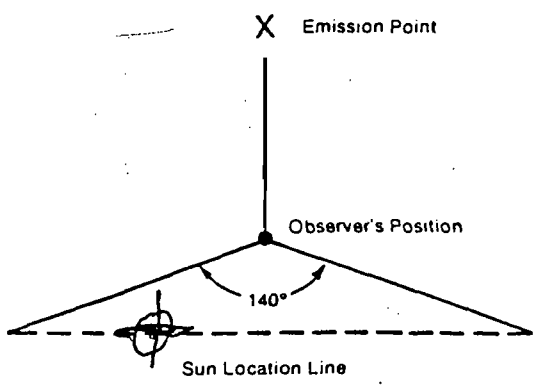
No. WSBB88-1

COMPANY NAME	NAVAL AIR STATION
STREET ADDRESS	P.O. BOX 108, CODE 18E
	PUBLIC WORKS DEPT.
CITY	CECIL FIELD
STATE	FL
ZIP	32215
PHONE (KEY CONTACT)	778-5624 (JOHN DINGWALL)
SOURCE ID NUMBER	A016-73249
PROCESS EQUIPMENT	WALNUT SHELL BLAST BOOTH
OPERATING MODE	100%
CONTROL EQUIPMENT	BAG-HOUSE
OPERATING MODE	OPERATIONAL
DESCRIBE EMISSION POINT	1' X 3' RECTANGULAR VENT
HEIGHT ABOVE GROUND LEVEL	20'
HEIGHT RELATIVE TO OBSERVER	Start 20' End 20'
DISTANCE FROM OBSERVER	Start 30' End 30'
DIRECTION FROM OBSERVER	Start W End W
DESCRIBE EMISSIONS	Start — End —
EMISSION COLOR	Start — End —
IF WATER DROPLET PLUME	Attached ☐ — Detached ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	Start — End —
DESCRIBE PLUME BACKGROUND	Start PARTLY CLOUDY SKY End SAME
BACKGROUND COLOR	Start BLUE/WHITE End SAME
SKY CONDITIONS	Start PC End SAME
WIND SPEED	Start 4MPH End 13MPH
WIND DIRECTION	Start N End NE
AMBIENT TEMP	Start 76°F End 77°F
WET BULB TEMP	
RH, percent	60%

Stack with Plume
Sun
Wind

SOURCE LAYOUT SKETCH

Draw North Arrow



ADDITIONAL INFORMATION

OBSERVATION DATE	START TIME	END TIME
	1115	1145

SEC / MIN	0	15	30	45	COMMENTS
1	Ø	Ø	Ø	Ø	
2	Ø	Ø	Ø	Ø	
3	Ø	Ø	Ø	Ø	
4	Ø	Ø	Ø	Ø	
5	Ø	Ø	Ø	Ø	
6	Ø	Ø	Ø	Ø	
7	Ø	Ø	Ø	Ø	
8	Ø	Ø	Ø	Ø	
9	Ø	Ø	Ø	Ø	
10	Ø	Ø	Ø	Ø	
11	Ø	Ø	Ø	Ø	
12	Ø	Ø	Ø	Ø	
13	Ø	Ø	Ø	Ø	
14	Ø	Ø	Ø	Ø	
15	Ø	Ø	Ø	Ø	
16	Ø	Ø	Ø	Ø	
17	Ø	Ø	Ø	Ø	
18	Ø	Ø	Ø	Ø	
19	Ø	Ø	Ø	Ø	
20	Ø	Ø	Ø	Ø	
21	Ø	Ø	Ø	Ø	
22	Ø	Ø	Ø	Ø	
23	Ø	Ø	Ø	Ø	
24	Ø	Ø	Ø	Ø	
25	Ø	Ø	Ø	Ø	
26	Ø	Ø	Ø	Ø	
27	Ø	Ø	Ø	Ø	
28	Ø	Ø	Ø	Ø	RECEIVED BUR. OF PERM.
29	Ø	Ø	Ø	Ø	OCT 31 1988
30	Ø	Ø	Ø	Ø	

OBSERVER'S NAME (PRINT)	JOHN D. DINGWALL
OBSERVER'S SIGNATURE	John D. Dingwall
DATE	5 Oct 88
ORGANIZATION	NAS Cecil Field
CERTIFIED BY	
DATE	

CONTINUED ON VEO FORM NUMBER

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

PERMITTEE: Naval Air Station
Cecil Field, Florida 32215

I.D. Number:	31-16-0218-01
Permit/Certification Number:	A016-73249
Date of Issue:	November 7, 1983
Expiration Date:	September 30, 1988
County:	Duval
Latitude/Longitude:	30:18:00/81:53:00
Section/Township/Range:	
Project:	Walnut Shell Blast Booth
UTM	E-7415.200 N-3344.500

This permit is issued under the provisions of Chapter(s) 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:

For the operation of the walnut shell blast booth. Particulate emissions are controlled by a Pangborn baghouse (S/N C 60 CM-5971).

Located at Jet Engine Test Cell Road and 6th Street, Cecil Field, Florida 32215

Supporting documents are as follows:

(1) Permit application received on July 27, 1983

(2) Visible emission test dated September 2, 1983

(3) Additional information received on September 9, 1983

RECEIVED
BUR. OF PERM.

OCT 31 1983

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

PERMITTEE: Naval Air Station
Cecil Field, Florida 32215

I.D. Number:	31-16-0218-02
Permit/Certification Number:	A016-73248
Date of Issue:	October 6, 1983
Expiration Date:	September 30, 1988
County:	Duval
Latitude/Longitude:	30:13:24/81:53:12
Section/Township/Range:	
Project:	Steam Generating Boiler
UTM	E-7414.670 N-3343.520

This permit is issued under the provisions of Chapter(s) 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:

For the operation of the existing steam generating boiler. Maximum heat input is 44.1 x 10^6 BTUs per hour firing natural gas. Number 2 fuel oil is on standby.

Located at 2nd Street and "B" Avenue, Cecil Field, Florida 32215

Supporting documents are as follows:

(1) Permit A016-12509

(2) Application received on July 27, 1983

(3) Visible emissions test dated June 9, 1983

RECEIVED
BUR. OF PERM.
OCT 31 1983

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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 FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: WALNUT SHELL BLAST BOOTH Renewal of DER Permit No. A016-73249

Company Name: NAVAL AIR STATION, CECIL FIELD 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):

WALNUT SHELL BLAST BOOTH WITH BAG HOUSE COLLECTOR

Source Location: Street: JET ROAD City: CECIL FIELD

UTM: East 223,240 North 2,146,080

Latitude: 30 ° 14 ' 03 "N. Longitude: 81 ° 52 ' 56 "W.

---

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.

2. Have there been any alterations to the plant since last permitted? [ ] Yes [X] No If minor alterations have occurred, describe on a separate sheet and attach.

3. Attach the last compliance test report required per permit conditions if not submitted previously.

4. Have previous permit conditions been adhered to? [X] Yes [ ] No If no, explain on a separate sheet and attach.

5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [ ] Yes [X] No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.

6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [ ] No

7. Has the annual operating report for the last calendar year been submitted? [X] Yes [ ] No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	Contaminant %Wt	Utilization Rate lbs/hr
GARNET	PARTICULATE	1.0	10
RUSTED AND PAINTED METAL	PAINT FLAKES	1.0	
PARTS AND RUST			

B. Product Weight (lbs/hr): VARIES

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Consumption* Max/hr**	Maximum Heat Input (MMBTU/hr)

D. Normal Equipment Operating Time: hrs/day 5 ; days/wk 1 ; wks/yr 52 ;

hrs/yr (power plants only) _____ ; if seasonal, describe VARIES BECAUSE TYPE OF WORK AND WORKLOAD TO BE BLASTED.

The undersigned owner or authorized representative*** of NAS CECIL FIELD is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.
**Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach letter of authorization if not previously submitted

Deane E. Leidholt
Signature, Owner or Authorized Representative
(Notarization is mandatory)

DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

CECIL FIELD, FL 32215
City State Zip

31 AUG 1988
Date

(904) 778-5440
Telephone No.

Susan D. Collier
Notary Public, State of Florida
My Commission Expires June 30, 1992
Bonded Thru Troy Fain - Insurance Inc.

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

G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: STEAM BOILER PLANT Renewal of DER Permit No. A016-73248

Company Name: NAVAL AIR SATION 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 STACK (STEAM GENERATOR #25)

Source Location: Street: 2nd STREET & "B" AVE City: CECIL FIELD

UTM: East 219,900 North 2,142,080

Latitude: 30 ° 13 ' 24 "N. Longitude: 81 ° 53 ' 12 "W.

---

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.

2. Have there been any alterations to the plant since last permitted? [ ] Yes [X] No If minor alterations have occurred, describe on a separate sheet and attach.

3. Attach the last compliance test report required per permit conditions if not submitted previously.

4. Have previous permit conditions been adhered to? [X] Yes [ ] No If no, explain on a separate sheet and attach.

5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [ ] Yes [X] No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.

6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [ ] No

7. Has the annual operating report for the last calendar year been submitted? [X] Yes [ ] No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	%Wt	Utilization Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Max/hr**	Maximum Heat Input (MMBTU/hr)
NATRUAL GAS	0.021	0.042	44.1
#2 OIL	3.92	7.38	43.71

D. Normal Equipment Operating Time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;

hrs/yr (power plants only) _____; if seasonal, describe _____

The undersigned owner or authorized representative*** of NAS CECIL FIELD is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.
**Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach letter of authorization if not previously submitted

Deane E. Leidholt
Signature, Owner or Authorized Representative
(Notarization is mandatory)

DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

CECIL FIELD, FL 32215
City State Zip

29 AUG 88
Date

(904) 778-5440
Telephone No.

Susan D. Collier
Notary Public, State of Florida
My Commission Expires June 30, 1992
Bonded Thru Troy Fain Insurance Inc.

DER Form 17-1.202(4)
Effective November 30, 1982

BEST AVAILABLE COPY

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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 FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: STEAM BOILER PLANT Renewal of DER Permit No. A016-73248

Company Name: NAVAL AIR SATION 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 STACK (STEAM GENERATOR #25)

Source Location: Street: 2nd STREET & "B" AVE City: CECIL FIELD

UTM: East 219,900 North 2,142,080

Latitude: 30 °13 ' 24 "N. Longitude: 81 ° 53 ' 12 "W.

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6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [ ] No

7. Has the annual operating report for the last calendar year been submitted? [X] Yes [ ] No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	Contaminant %Wt	Utilization Rate	Utilization lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Consumption* Max/hr**	Maximum Heat Input (MMBTU/hr)
NATRUAL GAS	0.021	0.042	44.1
#2 OIL	3.92	7.38	43.71

D. Normal Equipment Operating Time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;

hrs/yr (power plants only) _____; if seasonal, describe _____

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**Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach letter of authorization if not previously submitted

Deane E. Leidholt
Signature, Owner or Authorized Representative
(Notarization is mandatory)

DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

CECIL FIELD, FL 32215
City State Zip

29 AUG 88
Date

(904) 778-5440
Telephone No.

Susan D. Collier
Notary Public, State of Florida
My Commission Expires June 30, 1992
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JACKSONVILLE, FLORIDA 32207

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: STEAM BOILER PLANT Renewal of DER Permit No. A016-73248

Company Name: NAVAL AIR SATION 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 STACK (STEAM GENERATOR #25)

Source Location: Street: 2nd STREET & "B" AVE City: CECIL FIELD

UTM: East 219,900 North 2,142,080

Latitude: 30 °13 ' 24 "N. Longitude: 81 ° 53 ' 12 "W.

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4. Have previous permit conditions been adhered to? [X] Yes [ ] No If no, explain on a separate sheet and attach.

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6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [ ] No

7. Has the annual operating report for the last calendar year been submitted? [X] Yes [ ] No If no, please attach.

BEST AVAILABLE COPY

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	%Wt	Utilization Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Max/hr**	Maximum Heat Input (MMBTU/hr)
NATRUAL GAS	0.021	0.042	44.1
#2 OIL	3.92	7.38	43.71

D. Normal Equipment Operating Time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;

hrs/yr (power plants only) _____; if seasonal, describe _____

The undersigned owner or authorized representative*** of NAS CECIL FIELD is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

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**Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach letter of authorization if not previously submitted

Deane E. Leidholt
Signature, Owner or Authorized Representative
(Notarization is mandatory)

DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

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Date

(904) 778-5440
Telephone No.

Susan D. Collier
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My Commission Expires June 30, 1992
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DER Form 17-1.202(4)
Effective November 30, 1982

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If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: STEAM BOILER PLANT Renewal of DER Permit No. A016-73248

Company Name: NAVAL AIR SATION 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 STACK (STEAM GENERATOR #25)

Source Location: Street: 2nd STREET & "B" AVE City: CECIL FIELD

UTM: East 219,900 North 2,142,080

Latitude: 30 °13 ' 24 "N. Longitude: 81 ° 53 ' 12 "W.

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A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	Contaminant %Wt	Utilization Rate lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Consumption* Max/hr**	Maximum Heat Input (MMBTU/hr)
NATRUAL GAS	0.021	0.042	44.1
#2 OIL	3.92	7.38	43.71

D. Normal Equipment Operating Time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;

hrs/yr (power plants only) _____; if seasonal, describe _____

The undersigned owner or authorized representative*** of NAS CECIL FIELD is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

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Signature, Owner or Authorized Representative
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DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

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Date

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Telephone No.

Susan D. Collier
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G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: WALNUT SHELL BLAST BOOTH Renewal of DER Permit No. A016-73249

Company Name: NAVAL AIR STATION, CECIL FIELD 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):

WALNUT SHELL BLAST BOOTH WITH BAG HOUSE COLLECTOR

Source Location: Street: JET ROAD City: CECIL FIELD

UTM: East 223,240 North 2,146,080

Latitude: 30 ° 14 ' 03 "N. Longitude: 81 ° 52 ' 56 "W.

---

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.

2. Have there been any alterations to the plant since last permitted? [ ] Yes [X] No If minor alterations have occurred, describe on a separate sheet and attach.

3. Attach the last compliance test report required per permit conditions if not submitted previously.

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7. Has the annual operating report for the last calendar year been submitted? [X] Yes [ ] No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	%Wt	Utilization Rate	lbs/hr
GARNET	PARTICULATE	1.0		10
RUSTED AND PAINTED METAL	PAINT FLAKES	1.0		
PARTS AND RUST				

B. Product Weight (lbs/hr): VARIES

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Max/hr**	Maximum Heat Input (MMBTU/hr)

D. Normal Equipment Operating Time: hrs/day 5 ; days/wk 1 ; wks/yr 52 ;

hrs/yr (power plants only) _____; if seasonal, describe VARIES BECAUSE TYPE OF WORK AND WORKLOAD TO BE BLASTED.

The undersigned owner or authorized representative*** of NAS CECIL FIELD is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.
**Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach letter of authorization if not previously submitted

Deane E. Leidholt
Signature, Owner or Authorized Representative
(Notarization is mandatory)

DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

CECIL FIELD, FL 32215
City State Zip

31 AUG 1988
Date

(904) 778-5440
Telephone No.

Susan D. Collier
Notary Public, State of Florida
My Commission Expires June 30, 1992
Bonded Thru Troy Fain - Insurance Inc.

DER Form 17-1.202(4)
Effective November 30, 1982

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

G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: WALNUT SHELL BLAST BOOTH Renewal of DER Permit No. A016-73249

Company Name: NAVAL AIR STATION, CECIL FIELD 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):

WALNUT SHELL BLAST BOOTH WITH BAG HOUSE COLLECTOR

Source Location: Street: JET ROAD City: CECIL FIELD

UTM: East 223,240 North 2,146,080

Latitude: 30 ° 14 ' 03 "N. Longitude: 81 ° 52 ' 56 "W.

---

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.

2. Have there been any alterations to the plant since last permitted? [ ] Yes [X] No If minor alterations have occurred, describe on a separate sheet and attach.

3. Attach the last compliance test report required per permit conditions if not submitted previously.

4. Have previous permit conditions been adhered to? [X] Yes [ ] No If no, explain on a separate sheet and attach.

5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [ ] Yes [X] No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.

6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [ ] No

7. Has the annual operating report for the last calendar year been submitted? [X] Yes [ ] No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	Contaminant %Wt	Utilization Rate lbs/hr
GARNET	PARTICULATE	1.0	10
RUSTED AND PAINTED METAL	PAINT FLAKES	1.0	
PARTS AND RUST			

B. Product Weight (lbs/hr): VARIES

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Consumption* Max/hr**	Maximum Heat Input (MMBTU/hr)

D. Normal Equipment Operating Time: hrs/day 5 ; days/wk 1 ; wks/yr 52 ;

hrs/yr (power plants only) _____; if seasonal, describe VARIES BECAUSE TYPE OF WORK AND WORKLOAD TO BE BLASTED.

The undersigned owner or authorized representative*** of NAS CECIL FIELD is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.
**Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach letter of authorization if not previously submitted

Deane E. Leidholt
Signature, Owner or Authorized Representative
(Notarization is mandatory)

DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

CECIL FIELD, FL 32215
City State Zip

31 AUG 1988
Date

(904) 778-5440
Telephone No.

Susan D. Collier
Notary Public, State of Florida
My Commission Expires June 30, 1992
Bonded Thru Troy Fain - Insurance Inc.

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

G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: WALNUT SHELL BLAST BOOTH Renewal of DER Permit No. A016-73249

Company Name: NAVAL AIR STATION, CECIL FIELD 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):

WALNUT SHELL BLAST BOOTH WITH BAG HOUSE COLLECTOR

Source Location: Street: JET ROAD City: CECIL FIELD

UTM: East 223,240 North 2,146,080

Latitude: 30 ° 14 ' 03 "N. Longitude: 81 ° 52 ' 56 "W.

---

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.

2. Have there been any alterations to the plant since last permitted? [ ] Yes [X] No If minor alterations have occurred, describe on a separate sheet and attach.

3. Attach the last compliance test report required per permit conditions if not submitted previously.

4. Have previous permit conditions been adhered to? [X] Yes [ ] No If no, explain on a separate sheet and attach.

5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [ ] Yes [X] No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.

6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [ ] No

7. Has the annual operating report for the last calendar year been submitted? [X] Yes [ ] No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant Type	%Wt	Utilization Rate	lbs/hr
GARNET	PARTICULATE	1.0		10
RUSTED AND PAINTED METAL	PAINT FLAKES	1.0		
PARTS AND RUST				

B. Product Weight (lbs/hr): VARIES

C. Fuels

Type (Be Specific)	Consumption* Avg/hr*	Max/hr**	Maximum Heat Input (MMBTU/hr)

D. Normal Equipment Operating Time: hrs/day 5 ; days/wk 1 ; wks/yr 52 ;

hrs/yr (power plants only) _____; if seasonal, describe VARIES BECAUSE TYPE OF WORK AND WORKLOAD TO BE BLASTED.

The undersigned owner or authorized representative*** of NAS CECIL FIELD is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.
**Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach letter of authorization if not previously submitted

Deane E. Leidholt
Signature, Owner or Authorized Representative
(Notarization is mandatory)

DEANE E. LEIDHOLT, CDR, CEC, USN, PWO
Typed Name and Title

NAVAL AIR STATION
Address

CECIL FIELD, FL 32215
City State Zip

31 AUG 1988
Date

(904) 778-5440
Telephone No.

Susan D. Collier
Notary Public, State of Florida
My Commission Expires June 30, 1992
Bonded Thru Troy Fain - Insurance Inc.

DER Form 17-1.202(4)
Effective November 30, 1982

DEPARTMENT OF THE NAVY
NAVAL AIR STATION
CECIL FIELD, FLORIDA 32215-5000

6280
Ser 18E/6036

20 DEC 1985

Mr. Jerry E. Woosley
Bio-Environmental Services Division
515 West 6th Street
Jacksonville, Florida 32206-4397

Dear Mr. Woosley:

Subj: NAS Cecil Field Permits AC16-67736 and AC16-67737 for two 30 MBTU/HR boilers

As requested by your letter dated 31 October 1985, enclosed are three additional copies of the Certificate of Completion of Construction form including attached visible emission compliance test and the sulfur analysis results of the fuel oil used at the facility. The test method used was ASTM D 129. The 0.537 percent sulfur is the lowest that can presently be found in the Navy supply system. Using the above figure and emission factors from the AP42, the SO_2 emissions are 16.82 lbs/hr. and 42.84 tons/yr.

We are requesting a modification to the subject permits that would limit the maximum hours of operation to 4,815 per year with the SO_2 emissions of 16.82 lbs/hr. and 39.99 tons/yr. The reduced hours of operation would ensure that the maximum annual emissions would be below the required 39.99 tons. In reality, the SO_2 emissions would be far below this due to the fact that the boilers are normally operated on natural gas. Fuel oil is used only during emergencies and testing operations. All hours of fuel oil operation will be logged to facilitate verification.

It is our view, considering the normal operation of the boilers and Cecil Field's remote location, that the 16.82 lbs/hr. SO_2 emission rate vice the 15.70 presently on the subject permit will have no impact on air quality.

Sincerely,

J. C. DEAN
Commander
Civil Engineer Corps
United States Navy
Public Works Officer
By direction of the Commanding Officer

Enclosures (3)

Copy to:
Mr. C. H. Fancy, FDER
Mr. C. D. Campbell, SOUTHNAVFACENGCOM

DER
DEC 23 1985
BAQM

To Mike Phillips

Date 2/20/86 Time 8:05

WHILE YOU WERE OUT

M John Dingmuxall

of WSU

Phone (904) 778-5620

Area Code Number Extension

	TELEPHONED	X	PLEASE CALL
	CALLED TO SEE YOU		WILL CALL AGAIN
	WANTS TO SEE YOU		URGENT
X	RETURNED YOUR CALL		

Message Cecil Fields NAS
Found low SO2 fuel!
Feb 86 MGP

Operator

✓ CON. PERMIT
- TO KEEP UNDER PSD TRIGGERING LEVEL
- SHORT TERM INCREMENTS
e.g. 3-HR LIMIT SO_2 STD.
- IF NO PERMIT CALL WOODLEY.

9/3

Bill T.

Call Woodley on this. Looks as though the construction permit needs to be modified.

Clan

BEST AVAILABLE COPY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

AIR POLLUTION SOURCES
CERTIFICATE OF COMPLETION OF CONSTRUCTION*

PERMIT NO. AC16-67736 and AC16-67737 DATE: 26 September 1985

Company Name: NAS Cecil Field, FL County: Duval

Source Identification(s): Two 30 X 10^6 BTU/hr. steam generators

Actual costs of serving pollution control purpose: $ _____

Operating Rates: 15 X 10^6 MBTU/hr. each Design Capacity: 30 X 10^6 BTU/hr. each

Expected Normal 15 X 10^6 MBTU/hr. each During Compliance Test 32 X 10^6 BTU/hr. each

Date of Compliance Test: May 31 and September 18, 1985 (Attach detailed test report)

Test Results:	Pollutant	Actual Discharge	Allowed Discharge
Opacity:	Boiler #27	0%	15%, 40% - 2 min/hr. max.
	Boiler #28	0%	15%, 40% - 2 min/hr. max.

Date plant placed in operation: May and September 1985

This is to certify that, with the exception of deviations noted**, the construction of the project has been completed in accordance with the application to construct and Construction Permit No. AC16-67736 & 67737 dated July 5, 1983.

A. Applicant:

J. B. AUSTIN, CAPT, USN — Name of Person Signing (Type)

J B Austin — Signature of Owner or Authorized Representative and Title

Date: September 27, 1985 Telephone: 904-778-5200

B. Professional Engineer:

Not applicable as per 17-4.05(3) — Name of Person Signing (Type)

Scott A Hayward — Signature of Professional Engineer

_____ Company Name

Florida Registration No. _____

Date: _____

(Seal)

_____ Mailing Address

_____ Telephone Number

*This form, satisfactorily completed, submitted in conjunction with an existing application to construct permit and payment of application processing fee will be accepted in lieu of an application to operate.

**As built, if not built as indicated include process flow sketch, plot plan sketch, and updates of applicable pages of application form.

DER
DEC 23 1985
BAQM
ENCLOSURE(2)

BEST AVAILABLE COPY

VISIBLE EMISSION OBSERVATION FORM

HOME: 786-8197

Plant - Boiler #27	
NAS Cecil Field, FL PWD, Bldg 1, PO. Box 108 Code 18E	
ATE: FL	ZIP: 32215
TELEPHONE: 904/778-5620	
SOURCE ID NUMBER: AC16-6773	OBSERVATION DATE: 31 MAY 85
PROCESS: Boiler #27	OPACITY: Ø
CONTROL EQUIPMENT: none	
DESCRIBE EMISSION POINT: Circular Stack	
BACKGROUND COLOR: blue	SKY CONDITIONS: clear
WIND SPEED: 7-9 mph	WIND DIRECTION: W
AMBIENT TEMPERATURE: ~ 80°F	RELATIVE HUMIDITY: ~ 70%
COMMENTS: Firing No. 2 Fuel Oil - 208 gal	

START TIME 0958 am — STOP TIME 1057

	0	15	30	45		0	15	30	45
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	0	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	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
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	0	0	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	0	0	0	0
28	0	0	0	0	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

PROCESS WEIGHT CERTIFICATION

INPUT: ~~28~~ 32 million BTU.

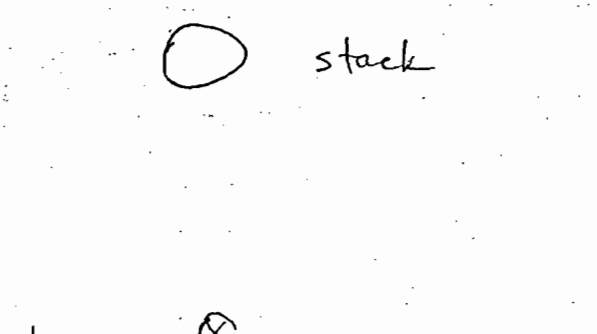
OUTPUT: 26,000 PPH STEAM

MATERIAL:

SIGNATURE: Roger Hamm — ROGER HAMMAN, SOUTHERN TECH.

TITLE: START-UP ENGINEER. — DATE: 31st MAY 85

SOURCE LAYOUT SKETCH:



DER

DEC 23 1985

BAQM ENCLOSURE(3)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

THIS IS TO CERTIFY THAT

Edmund P. Balducci has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9. This certificate expires on June 15, 1985

Judi Sears — Certification Officer

E.P. Balducci — Bearer's Signature

DER Form PERM 5-9 (Jun 79)

OBSERVER'S SIGNATURE: Ed Balducci — DATE: 31 May 85

BEST AVAILABLE COPY

VISIBLE EMISSION OBSERVATION FORM

OFFICE: 778-562
HOME: 786-8197

NAME: NAS CECIL FIELD - Bldg 11, Boiler # 28

ADDRESS: Code 1BE, PWD
P.O. Box 108, BLDG 1, NAS Cecil Field

STATE	ZIP	TELEPHONE
FL	32215	904/778-5620

SOURCE ID NUMBER	OBSERVATION DATE
AC16 - 6773	18 SEPT 85

PROCESS: Boiler # 28

OPACITY: Ø

CONTROL EQUIPMENT: None

DESCRIBE EMISSION POINT: circular vent

BACKGROUND COLOR	SKY CONDITIONS
blue sky	clear
WIND SPEED: 9-12 mph	WIND DIRECTION: NE
AMBIENT TEMPERATURE: ~ 72°F	RELATIVE HUMIDITY: ~ 70%

COMMENTS:
Firing No. 2 Fuel Oil
no emissions observed

START TIME 0929					STOP TIME 1028				
	0	15	30	45		0	15	30	45
29 1	0	0	0	0	31	0	0	0	0
30 2	0	0	0	0	1000 32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
32 4	0	0	0	0	34 2	0	0	0	0
5	0	0	0	0	35	0	0	0	0
34 6	0	0	0	0	36 4	0	0	0	0
7	0	0	0	0	37	0	0	0	0
36 8	0	0	0	0	38 6	0	0	0	0
9	0	0	0	0	39	0	0	0	0
38 10	0	0	0	0	40 8	0	0	0	0
11	0	0	0	0	41	0	0	0	0
40 12	0	0	0	0	42 10	0	0	0	0
13	0	0	0	0	43	0	0	0	0
42 14	0	0	0	0	44 12	0	0	0	0
15	0	0	0	0	45	0	0	0	0
44 16	0	0	0	0	46 14	0	0	0	0
17	0	0	0	0	47	0	0	0	0
46 18	0	0	0	0	48 16	0	0	0	0
19	0	0	0	0	49	0	0	0	0
48 20	0	0	0	0	50 18	0	0	0	
21	0	0	0	0	51	0	0	0	0
50 22	0	0	0	0	52 20	0	0	0	0
23	0	0	0	0	53	0	0	0	0
52 24	0	0	0	0	54 22	0	0	0	0
25	0	0	0	0	55	0	0	0	0
54 26	0	0	0	0	56 24	0	0	0	0
27	0	0	0	0	57	0	0	0	0
56 28	0	0	0	0	58 26	0	0	0	0
29	0	0	0	0	59	0	0	0	0
58 30	0	0	0	0	60 28	0	0	0	0

PROCESS WEIGHT CERTIFICATION

INPUT: 32.85 X 10^6 BTU/Hr

OUTPUT:

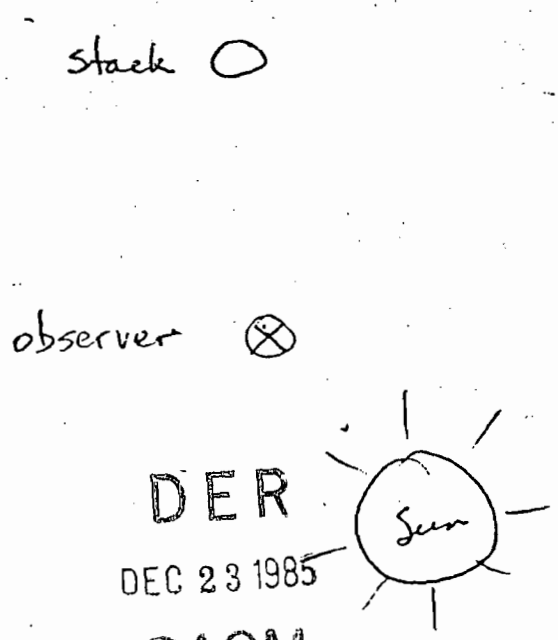
MATERIAL: #2 Fuel Oil

SIGNATURE: Ernest E. Bellmow

TITLE: Utility General Foreman

DATE: 9/18/85

SOURCE LAYOUT SKETCH:



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

THIS IS TO CERTIFY THAT
Edmund P. Balducci has completed
the STATE OF FLORIDA visible emissions evaluation training
and is a qualified observer of visible emissions as specified by
EPA reference method 9.
This certificate expires on Dec. 15, 1985

Judi Sears
Certification Officer

E. P. Balducci
Bearer's Signature

DER Form PERM 5-9 (Jun 79)

OBSERVER SIGNATURE	DATE
E. P. Balducci	18 SEPT

DER
DEC 23 1985
BAQM

ENCLOSURE(3)

BEST AVAILABLE COPY

TECHNICAL SERVICES, INC.

ENVIRONMENTAL CONSULTANTS — INDUSTRIAL CHEMISTS
OFFICE 2471 SWAN ST. — P.O. BOX 52329
LABORATORIES 103-107 STOCKTON STREET
JACKSONVILLE, FLORIDA 32201
(904) 353-5761

Laboratory No. 69136 October 12, 1985

Sample of Oil

Date Received September 30, 1985

For Commanding Officer, P.O. Box 108, Naval Air Station, Cecil Field, Florida 3221

Marks: #2 Fuel Steam Plant Bldg. #11, Sample Point: Fuel Oil Strainer
P. O. No. N60200-85-A-159, Call No. L625

CERTIFICATE OF ANALYSIS OR TESTS

Sulfur, % 0.537 by weight

DER
DEC 23 1985
BAQM

Respectfully submitted,

TECHNICAL SERVICES, INC.

By Harvey C. Gray, Jr.

LABORATORY I.D. NO. 82145

PS Form 3811, July 1983

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1, 2, 3 and 4.

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. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Commander F. B. Bankert
Civil Engineer Corps
Dept. of Navy
Cecil Field, Florida 32215

4. Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Article Number
0158656

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

JACKSONVILLE, FL CECIL FIELD
FEB 25 1985
USPO

No. 0158656

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO
Commander F. B. Banker

STREET AND NO.

P.O., STATE AND ZIP CODE

POSTAGE		$ ¢
CERTIFIED FEE		¢
CONSULT POSTMASTER FOR FEES — OPTIONAL SERVICES	SPECIAL DELIVERY	¢
	RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE: SHOW TO WHOM AND DATE DELIVERED	¢
	RETURN RECEIPT SERVICE: SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
	RETURN RECEIPT SERVICE: SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE: SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		$

POSTMARK OR DATE
2/14/85

PS Form 3800, Apr. 1976

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

February 11, 1985

Commander, F. B. Bankert
Civil Engineer Corps
Department of the Navy
Cecil Field, Florida 32215

Dear Commander:

RE: Modifications of Conditions
Permit Nos. AC 16-67736
AC 16-67737

We are in receipt of your request for a modification of the permit conditions. The conditions are changed as follows:

Condition	From	To
Date of Expiration	December 31, 1984	August 31, 1985

This letter must be attached to your permits and becomes a part of each permit.

Sincerely,

for Victoria J. Tschinkel
Secretary

VJT/ks

cc: Jerry Woosley, BES
Ed Balducci

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To:	Loctn.:	
To:	Loctn.:	
To:	Loctn.:	
From:	Date:	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due:	Date Due:	

RECEIVED
FEB 12 1985
Office of the Secretary

TO: Victoria J. Tschinkel

FROM: Clair Fancy

DATE: February 11, 1985

SUBJ: Modification of Air Construction Permits AC 16-67737 and AC 16-37737

Attached for your signature is a letter extending the expiration dates of the above referenced permits issued to the U.S. Navy.

The Bureau recommends your approval.

CF/pa

Attachments

NAVAL AIR STATION
CECIL FIELD, FLORIDA 32215

6280
Ser 18E/6071

17 JAN 1985

Mr. C. H. Fancy, P.E.
Deputy Bureau Chief, BAQM/FDER
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301-8241

Dear Mr. Fancy:

Subj: NAS Cecil Field, two 50 MBTU/HR Boilers, Permits AC16-67736 and AC16-67737

I am requesting a 6-month extension to the above-captioned permits as the construction of the boilers is not complete at this time. An extension will allow the boilers' construction and installation to be completed, the units to be brought on line, operational adjustments made, and a visible emissions test to be performed.

Your favorable consideration of this matter would be appreciated. If you need any additional information, please contact Mr. Ed Balducci, Environmental Engineer, at 904-778-5620.

Sincerely,

F. B. BANKERT
Commander
Civil Engineer Corps
United States Navy
Public Works Officer
By direction of the Commanding Officer

Copy to:
SOUTHNAVFACENGCOM (Code 1141)
BESD (Mr. Jerry Woosley)

PS Form 3811, Jan. 1978

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
XX Show to whom and date delivered..... ___¢
☐ Show to whom, date and address of delivery.... ___¢
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(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Capt. D. E. Bottorff
P. O. Box 10068
Charleston, S. C. 29411

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	P408530326	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
R L Hartzell

4. DATE OF DELIVERY
11 July 83

POSTMARK
CHARLESTON, SC RIVERS ANNEX BR
JUL 11 1983
CLERK OF COURTS

5. ADDRESS (Complete only if requested)
So Dw

6. UNABLE TO DELIVER BECAUSE:

☆GPO: 1979-300-459

P 408 530 326

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

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Sent to Capt. D. E. Bottorff	
Street and No. P. O. Box 10068	
P.O., State and ZIP Code Charleston, SC 29411	
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 6/8/83	

PS Form 3800, Feb. 1982

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

July 6, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Captain D. E. Bottorff, Commanding Officer
Naval Air Station
Cecil Field, Florida

Dear Captain Bottorff:

Enclosed is Permit Numbers AC 16-67736 and AC 16-67737 dated July 5, 1983, to U. S. Naval Air Station, Cecil Field, issued pursuant to Section 403, Florida Statutes.

Acceptance of the permit constitutes notice and agreement that the Department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

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

CHF/bjm

Enclosure

cc: Lauren M. Pitts, Naval Facilities Engineering Command
Jerry Woosley, BES
John Ketteringham, Northeast District

Final Determination

Naval Air Station Cecil Field
two 50 MBtu/hr Boilers

Duval County, Florida

Permit Numbers

AC 16-67736
AC 16-67737

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

June 28, 1983

Naval Air Station Construction Permit Final Determination

(AC 16-67736) (AC 16-67737)

Naval Air Station's construction permit applications for the construction of two 50 million Btu per hour heat input steam boilers at the Cecil Field Naval Air Station's existing site in Duval County, Florida have been reviewed by the Bureau of Air Quality Management. Public notice of the Department's intent to issue was published in the Florida Times-Union on May 27, 1983. Copies of the preliminary determination were available for public inspection at Duval County Department of Health, Welfare and Bio-Environmental Service, the FDER's Northeast District and the Bureau of the Air Quality Management.

There were no letters of response as a result of the public notice period.

The final action of the Department will be to issue the permit as noticed in the review process.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

Permit Number: AC 16-67736
Expiration Date: December 31, 1984
County: Duval
Latitude/Longitude: 30° 13' 00"N/ 82° 25' 00"W
Project: 50 MBtu/hr Steam Boiler

This permit is issued under the provisions of Chapter(s) 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:

For the construction of a 50 MBtu/hr boiler to replace the existing 50 MBtu/hr boiler (AO 16-12509) at Naval Air Station's existing site at Cecil Field, in Duval County, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:
1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16), received on March 21, 1983.
2. BACT determination.

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67736
Expiration Date: December 31, 1984

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.

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:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67736
Expiration Date: December 31, 1984

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.

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 DER's BACT determination, (attachment 2) the proposed boiler modification shall be carried out in accordance with the statements in the application supplied by the permittee.

2. The boiler's maximum emission rates shall not exceed the emission limits listed below:

Pollutant	Maximum Emissions lbs/hr	Maximum Emissions tons/yr
Particulate	0.74	3.23
SO_2	15.70	68.60
NOx	8.08	35.30

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67736
Expiration Date: December 31, 1984

SPECIFIC CONDITIONS:

3. The boiler is allowed to operate up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.

4. Compliance with the SO_2 emission limit in specific condition No. 2 is required to be demonstrated. The permittee shall either conduct a performance test in accordance with DER Method 6 (17-2.700(6)(a)6, FAC) or sample and analyze the oil for sulfur content as set forth in paragraphs 2.2 and 2.2.3 of EPA Method 19, 40 CFR 60.

5. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by permittee.

6. The existing 50 MBtu/hr boiler (AO 16-12509) shall be retired when the operation permit for this boiler is issued by the DER Northeast District office,

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.

Issued this 5 day of July, 1983

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Terry Cole for

VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

Permit Number: AC 16-67737
Expiration Date: December 31, 1984
County: Duval
Latitude/Longitude: 30° 13' 00"N/ 82° 25' 00"W
Project: 50 MBtu/hr Steam Boiler

This permit is issued under the provisions of Chapter(s) 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:

For the construction of a 50 MBtu/hr boiler at Naval Air Station's existing site at Cecil Field, in Duval County, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:
1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16), received on March 21, 1983.
2. BACT determination.

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67737
Expiration Date: December 31, 1984

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.

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:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67737
Expiration Date: December 31, 1984

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.

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 DER's BACT determination, (attachment 2) the proposed boiler modification shall be carried out in accordance with the statements in the application supplied by the permittee.

2. The boiler's maximum emission rates shall not exceed the emission limits listed below:

Pollutant	Maximum Emissions lbs/hr	Maximum Emissions tons/yr
Particulate	0.74	3.23
SO_2	15.70	39.99
NOx	8.08	35.30

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67737
Expiration Date: December 31, 1984

SPECIFIC CONDITIONS:

3. The boiler is allowed to operate up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.

4. Compliance with the SO_2 emission limit in specific condition No. 2 is required to be demonstrated. The permittee shall either conduct a performance test in accordance with DER Method 6 (17-2.700(6)(a)6, FAC) or sample and analyze the oil for sulfur content as set forth in paragraphs 2.2 and 2.2.3 of EPA Method 19, 40 CFR 60.

5. The maximum hours for burning No. 2 fuel oil (Maximum 0.3% sulfur content) in the proposed boiler shall be limited to 5,090 hour per year. There is no time limit for burning natural gas. The permittee shall report hours of operation for firing fuel oil to the FDER Northeast District office annually.

6. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by permittee.

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.

Issued this 5 day of July, 1983

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Tracy Cole for

VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION
Cecil Field Naval Air Station
Duval County

Department of the Navy plans to install two 50 million Btu per hour heat input steam boilers at the Cecil Field Naval Air Station. One of the boilers will replace an existing similar rated boiler. The new boilers will fire natural gas or No. 2 distillate oil with gas firing as the primary mode. The boilers are to be operated on an alternating basis with simultaneous operation during periods of increased steam demand usually required only during the winter months. The applicant has requested that each unit be permitted to operate 8760 hours per year.

The facility modification is subject to the preconstruction review requirements of Rule 17-2.500(5), Florida Administrative Code (FAC). A BACT determination is required for the proposed modification as set forth in Rule 17-2.600(6), FAC.

BACT Requested by the Applicant:

Particulate and sulfur dioxide emissions to be limited by fuel characteristics; natural gas or No. 2 distillate oil.

Date of Receipt of a BACT Application:

March 25, 1983

Date of Publication in the Florida Administrative Weekly:

April 8, 1983

Review Group Members:

The determination was based upon comments received from the New Source Review Section.

BACT Determined by DER:

The amount of particulate and sulfur dioxide emissions emitted from this source are to be controlled by the firing of natural gas or No. 2 (new) distillate oil.

Visible Emissions	Not to exceed 15% opacity. 40% opacity is permitted for not more than two minutes in any one hour.

DER Method 9 (17-2.700(6)(a)9. FAC) will be used to determine compliance. Performance tests will be conducted when firing distillate oil.

The term (new) means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives.

BACT Determination Rationale:

The net result of the modification will be to add one 50 million Btu per hour heat input boiler to the facility. The use of natural gas or No. 2 distillate oil as fuel in a boiler of this size is a recognized option for the control of particulate and sulfur dioxide emissions, and therefore, is determined to be BACT.

The term "new oil" disallows the use of re-refined or waste oil, emissions from which were not considered in this BACT analysis.

Air quality modeling predicts no violation of any PSD increment or ambient air quality standard resulting from the emissions determined as BACT.

Details of the Analysis May be Obtained by Contacting:

Edward Palagyi, BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Recommended By:

C H Fancy

C. H. Fancy, Deputy Bureau Chief

Date: 7/5/83

Approved:

T Cole

Victoria J. Tschinkel, Secretary

Date: 7/5/83

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices
And/Or To Other Than The Addressee

To: _____ Loctn.: _____
To: _____ Loctn.: _____
To: _____ Loctn.: _____
From: _____ Date: _____
Reply Optional [ ] Reply Required [ ] Info. Only [ ]
Date Due: _____ Date Due: _____

RECEIVED
JUL 5 1983
Office of the Secretary

TO: Victoria J. Tschinkel

FROM: Clair Fancy

DATE: June 29, 1983

SUBJ: Approval of Attached Air Construction Permits and BACT Determination

Attached for your approval and signature are two Air Construction Permits and a BACT determination for which the applicant is the U.S. Naval Air Station, Cecil Field. The proposed project is to construct two 50 million Btu per hour heat input steam boilers at their existing facility in Jacksonville.

Day 90, after which the permits would be issued by default, is July 10, 1983.

The Bureau recommends your approval and signature.

CF/pa

Attachment

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2144 MELBOURNE ST., P.O. BOX 10068
CHARLESTON, S. C. 29411
TEL. #803-743-5510

PLEASE ADDRESS REPLY TO THE COMMANDING OFFICER, NOT TO THE SIGNER OF THIS LETTER. REFER TO:
Code 1142

7 JUN 1983

DER
JUN 10 1983
BAQM

Mr. C. H. Fancy
Bureau of Air Quality Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

Dear Mr. Fancy:

In response to your letter of May 18, 1983 concerning construction of two 50 million BTU per hour heat input steam boilers at the Naval Air Station, Cecil Field, Duval County, Florida. The enclosed affidavit of publication is forwarded.

If there are additional requirements, please contact Mr. Laurens Pitts at the above telephone number.

Very truly yours,

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

Copy to:
NAS Cecil Field

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

William J. Valley, who on oath says that he is

Assistant Advertising Director 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 Proposed Agency Action

in the _____ Court,

was published in The Florida Times-Union

in the issues of May 27, 1983

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 May A.D. 19 83

Katherine T. Hoffman

Notary Public,
State of Florida at Large

Notary Public, State of Florida at Large
My commission expires Aug. 19, 1983

My Commission Expires

William J. Valley

DA 444

NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue permits to the Naval Air Station, Cecil Field for the construction of two 50 million Btu per hour heat input steam boilers at their existing facility in Jacksonville, Duval County, Florida. A determination of Best Available Control Technology (BACT) was required.

A person who is substantially affected by the Department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapters 17-1 and 28-5, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, Florida Statutes.

The applications, BACT determination, technical evaluation and department intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

DER Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32301
DER Northeast District
3426 Bills Road
Jacksonville, Florida 32207
Department of Health, Welfare and Bio-Environmental Services
Bio-Environmental Services Division
Air and Water Pollution Control
515 West 6th Street
Jacksonville, Florida 32206-4397

Comments on this action shall be submitted in writing to Bill Thomas of Tallahassee office within thirty (30) days of this notice.

No. 0157009

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO
Capt. D. E. Bottorff

STREET AND NO.

P.O., STATE AND ZIP CODE

POSTAGE			$
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE		¢
	OPTIONAL SERVICES: SPECIAL DELIVERY		¢
	OPTIONAL SERVICES: RESTRICTED DELIVERY		¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES			$

POSTMARK OR DATE

5/19/83

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
   - [X] Show to whom and date delivered. ____ ¢
   - [ ] Show to whom, date and address of delivery. ____ ¢
   - [ ] RESTRICTED DELIVERY
     Show to whom and date delivered. ____ ¢
   - [ ] RESTRICTED DELIVERY.
     Show to whom, date, and address of delivery: $____

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Capt. D. E. Bottorff
P. O. Box 10068
Charleston, South Carolina 29411

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	0157009	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

4. DATE OF DELIVERY

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

CHARLESTON, S.C. POSTMASTER MAY 23 1983 CLERK USPS OFFICIALS ANNEX B

☆GPO : 1979-300-469

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

May 18, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Captain D. E. Bottorff
Commanding Officer
Naval Facilities Engineering Command
2144 Melbourne Street
Post Office Box 10068
Charleston, South Carolina 29411

Dear Capt. Bottorff:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permits for the construction of two 50 million Btu per hour heat input steam boilers at the Naval Air Station, Cecil Field, Duval County, Florida.

Before final action can be taken on your proposed permits, you are required by Florida Administrative Code Rule 17-1.62(3) to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Duval County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. Failure to publish the notice will be grounds for denial of the permits.

The Preliminary Determination and proposed permits constitute a proposed action of the department and are subject to administrative hearing under the provisions of Chapter 120, Florida Statutes, if requested within fourteen days from receipt of this letter. Any petition for hearing must comply with the requirements of Florida Administrative Code Rule 28-5.201 and be filed with the Office of General Counsel, Florida Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to file a request for hearing within fourteen days shall constitute a waiver of your right to a hearing. Filing is deemed complete upon receipt by the Office of General Counsel.

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

Sincerely,

Lawrence A. George

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

CHF/pa

Attachment

cc: Laurens M. Pitts, Naval Facilities Engineering Command
John Ketteringham, DER Northeast District
Jerry Woosley, Jacksonville Bio-Environmental Services

Technical Evaluation
and
Preliminary Determination

Naval Air Station Cecil Field
Two 50 MBtu/hr Boilers

Duval County, Florida

Permit Numbers

AC 16-67736
AC 16-67737

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

May 10, 1983

NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue permits to the Naval Air Station, Cecil Field for the construction of two 50 million Btu per hour heat input steam boilers at their existing facility in Jacksonville, Duval County, Florida. A determination of Best Available Control Technology (BACT) was required.

A person who is substantially affected by the Department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapters 17-1 and 28-5, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, Florida Statutes.

The applications, BACT determination, technical evaluation and department intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

DER Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32301

DER Northeast District
3426 Bills Road
Jacksonville, Florida 32207

Department of Health, Welfare and Bio-Environmental Services
Bio-Environmental Services Division
Air and Water Pollution Control
515 West 6th Street
Jacksonville, Florida 32206-4397

Comments on this action shall be submitted in writing to Bill Thomas of Tallahassee office within thirty (30) days of this notice.

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.

Technical Evaluation
and
Preliminary Determination

Contents

I. APPLICANT AND SOURCE LOCATION

A. Applicant

Naval Air Station
2nd Street
Cecil Field, Florida

B. Source Location

The proposed modification will occur at Naval Air Station Cecil Field's existing site located in Duval County, Florida. The UTM coordinates are: 17-415.0 km East and 3342.9 km North. 414.98682 km
3342.94311 km

II. PROJECT DESCRIPTION

The subject modification is for the construction of two 50 million Btu per hour heat input steam boilers at the Cecil Field Naval Air Station. One of the boilers will replace an existing 50 million Btu per hour boiler. The new boilers will burn natural gas as a primary fuel with No. 2 fuel oil as the secondary fuel. The boilers are to be operated on an alternating basis with simultaneous operation during periods of increased steam demand, usually only during the winter months. The applicant has requested that each unit be permitted to operate 8760 hours per year.

III. AIR EMISSIONS

The maximum air emissions for burning natural gas or No. 2 fuel oil from each new boiler will be:

A. Natural Gas Burning

Pollutant	Maximum Emission lbs/hr	tons/yr
Particulate	0.46	2.00
SO_2	0.03	0.13
NO_x	7.96	34.8
CO	0.77	3.40
HC	0.14	0.61

B. Fuel Oil Burning

Pollutant	Maximum Emission lbs/hr	tons/yr
Particulate	0.74	3.23
SO_2	15.7	68.6/39.99*
NO_x	8.08	35.3
CO	1.84	8.04
HC	0.37	1.62

*The new boiler which will replace the existing boiler will have the same SO_2 emissions, 68.6 tons/year, as the existing boiler. The SO_2 emissions from the other new boiler will be limited to 39.99 tons/year by limiting oil firing to 5,090 hours per year.

IV. 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 (FAC).

The new boilers will be minor sources in a major existing emitting facility located in an attainment area for all the pollutants except ozone. The facility is located within the Duval County ozone (VOC) nonattainment area. The maximum VOC emissions of each proposed boiler will be 1.62 tons per year which is much less than 40 tons per year, the applicable significant emission rate for VOC emissions in Table 500-2 of Rule 17-2.500. Therefore, the proposed project is exempt from Rule on 17-2.510, New Source Review for Nonattainment Areas.

The retirement of the existing boiler will provide contemporaneous emissions reductions for one new boiler. The emission increases from the other new boiler will be less than the significant emission rates listed in Table 500-2 of Rule Section 17-2.500. Therefore, the project is not subject to the provisions of Rule 17-2.500, Prevention of Significant Deterioration.

A best available control technology determination (BACT) is required for the project as set forth in Rule 17-2.600(6)(b) and (c), Emission Limiting and Performance Standards.

V. CONTROL TECHNOLOGY REVIEW

No air emission control equipment has been proposed by the applicant.

The net result of the modification will be to add one 50 million Btu per hour heat input boiler to the facility. The use of natural gas or No. 2 distillate oil as fuel in a boiler of this size is a recognized option for the control of particulate and sulfur dioxide emissions and, therefore, is determined to be BACT.

VI. CONCLUSION

Based on an evaluation of the application, the Department believes that compliance with applicable state air pollution regulations will be achieved provided certain specific conditions are met.

The general and specific conditions are listed in the attached draft state permits (AC 16-67736 and AC 16-67737).

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

Permit Number: AC 16-67736
Expiration Date: December 31, 1984
County: Duval
Latitude/Longitude: 30° 13' 00"N/ 82° 25' 00"W
Project: 50 MBtu/hr Steam Boiler

This permit is issued under the provisions of Chapter(s) 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:

For the construction of a 50 MBtu/hr boiler to replace the existing 50 MBtu/hr boiler (AO 16-12509) at Naval Air Station's existing site at Cecil Field, in Duval County, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:
1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16), received on March 21, 1983.
2. BACT determination.

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67736
Expiration Date: December 31, 1984

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.

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:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67736
Expiration Date: December 31, 1984

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.

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 DER's BACT determination, (attachment 2) the proposed boiler modification shall be carried out in accordance with the statements in the application supplied by the permittee.

2. The boiler's maximum emission rates shall not exceed the emission limits listed below:

Pollutant	Maximum Emissions lbs/hr	Maximum Emissions tons/yr
Particulate	0.74	3.23
SO_2	15.70	68.60
NOx	8.08	35.30

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67736
Expiration Date: December 31, 1984

SPECIFIC CONDITIONS:

3. The boiler is allowed to operate up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.

4. Compliance with the SO_2 emission limit in specific condition No. 2 is required to be demonstrated. The permittee shall either conduct a performance test in accordance with DER Method 6 (17-2.700(6)(a)6, FAC) or sample and analyze the oil for sulfur content as set forth in paragraphs 2.2 and 2.2.3 of EPA Method 19, 40 CFR 60.

5. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by permittee.

6. The existing 50 MBtu/hr boiler (AO 16-12509) shall be retired when the operation permit for this boiler is issued by the DER Northeast District office,

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.

Issued this ___ day of_____, 1983

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

_____
VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

Permit Number: AC 16-67737
Expiration Date: December 31, 1984
County: Duval
Latitude/Longitude: 30° 13' 00"N/ 82° 25' 00"W
Project: 50 MBtu/hr Steam Boiler

This permit is issued under the provisions of Chapter(s) 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:

For the construction of a 50 MBtu/hr boiler at Naval Air Station's existing site at Cecil Field, in Duval County, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:
1. Application to Construct Air Pollution Sources, DER Form 17-1.122(16), received on March 21, 1983.
2. BACT determination.

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67737
Expiration Date: December 31, 1984

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.

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:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67737
Expiration Date: December 31, 1984

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.

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 DER's BACT determination, (attachment 2) the proposed boiler modification shall be carried out in accordance with the statements in the application supplied by the permittee.

2. The boiler's maximum emission rates shall not exceed the emission limits listed below:

Pollutant	Maximum Emissions lbs/hr	Maximum Emissions tons/yr
Particulate	0.74	3.23
SO_2	15.70	39.99
NOx	8.08	35.30

PERMITTEE:
Naval Air Station
2nd Street
Cecil Field, FL

I. D. Number:
Permit Number: AC 16-67737
Expiration Date: December 31, 1984

SPECIFIC CONDITIONS:

3. The boiler is allowed to operate up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.

4. Compliance with the SO_2 emission limit in specific condition No. 2 is required to be demonstrated. The permittee shall either conduct a performance test in accordance with DER Method 6 (17-2.700(6)(a)6, FAC) or sample and analyze the oil for sulfur content as set forth in paragraphs 2.2 and 2.2.3 of EPA Method 19, 40 CFR 60.

5. The maximum hours for burning No. 2 fuel oil (Maximum 0.3% sulfur content) in the proposed boiler shall be limited to 5,090 hour per year. There is no time limit for burning natural gas. The permittee shall report hours of operation for firing fuel oil to the FDER Northeast District office annually.

6. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by permittee.

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction site, shall be taken by the permittee.

Issued this ___ day of_____, 1983

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

_____
VICTORIA J. TSCHINKEL, Secretary

____ pages attached.

AFT

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION

Cecil Field Naval Air Station

Duval County

Department of the Navy plans to install two 50 million Btu per hour heat input steam boilers at the Cecil Field Naval Air Station. One of the boilers will replace an existing similar rated boiler. The new boilers will fire natural gas or No. 2 distillate oil with gas firing as the primary mode. The boilers are to be operated on an alternating basis with simultaneous operation during periods of increased steam demand usually required only during the winter months. The applicant has requested that each unit be permitted to operate 8760 hours per year.

The facility modification is subject to the preconstruction review requirements of Rule 17-2.500(5), Florida Administrative Code (FAC). A BACT determination is required for the proposed modification as set forth in Rule 17-2.600(6), FAC.

BACT Requested by the Applicant:

Particulate and sulfur dioxide emissions to be limited by fuel characteristics; natural gas or No. 2 distillate oil.

Date of Receipt of a BACT Application:

March 25, 1983

Date of Publication in the Florida Administrative Weekly:

April 8, 1983

Review Group Members:

The determination was based upon comments received from the New Source Review Section.

BACT Determined by DER:

The amount of particulate and sulfur dioxide emisions emitted from this source are to be controlled by the firing of natural gas or No. 2 (new) distillate oil.

Visible Emissions	Not to exceed 15% opacity. 40% opacity is permitted for not more than two minutes in any one hour.

DER Method 9 (17-2.700(6)(a)9. FAC) will be used to determine compliance. Performance tests will be conducted when firing distillate oil.

The term (new) means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives.

BACT Determination Rationale:

The net result of the modification will be to add one 50 million Btu per hour heat input boiler to the facility. The use of natural gas or No. 2 distillate oil as fuel in a boiler of this size is a recognized option for the control of particulate and sulfur dioxide emissions, and therefore, is determined to be BACT.

The term "new oil" disallows the use of re-refined or waste oil, emissions from which were not considered in this BACT analysis.

Air quality modeling predicts no violation of any PSD increment or ambient air quality standard resulting from the emissions determined as BACT.

cc: Commanding Officer (NAS, Cecil Field)-without enclosure
cc: Commanding Officer (Naval Facilities Eng. Command)-without enclosure

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

March 24, 1983

Mr. Clair Fancy, P.E.
Deputy Director
Central Air Permitting Section
Dept. of Environmental Regulation
2600 Blairstone Road
Tallahassee, Florida 32301

DER
MAR 25 1983
BAQM

Re: Naval Air Station
Cecil Field, Florida

Dear Mr. Fancy:

Enclosed are two Construction Permit applications and processing fees (check no. 1059482, $800; and check no. 1059286, $200) for the proposed boilers at the captioned facility. These applications are being forwarded to you for processing pursuant to the guidelines available to this Agency.

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

(1) Who are the boiler manufacturers and what are the boiler model numbers?

(2) Will the existing 35 X 10^6 BTU/hr boiler be permanently shut down or removed?

(3) The indicated percent sulfur (0.02%) for the standby diesel fuel is probably a typographical error. The normal percent sulfur for diesel fuel is 0.2% to 0.3%. It is noted that using the emission factors found in AP-42, Table 1.3-2, 8-82 (copy enclosed) for fuel oil combustion, that the potential emissions for SO_2 may differ from the data presented in the application, thereby resulting in a different processing fee. It is suggested this item be clarified.

(4) Only one copy of each application was submitted to this Agency.

If I may be of further assistance in this matter, please advise.

Very truly yours,

Jerry E. Woosley
Assistant Engineer

JEW/vj
Enclosure

AREA CODE 904 / AIR POLLUTION — 633-3033 OR 633-3303 / WATER POLLUTION — 633-3415
515 WEST 6TH STREET / JACKSONVILLE, FLORIDA 32206—4397

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2144 MELBOURNE ST., P. O. BOX 10068
CHARLESTON, S. C. 29411

TEL. #803-743-5510

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

Code 1142
17 MAR 1983

RECEIVED
MAR 21 1983
AIR & WATER POLLUTION CONTROL - CITY OF JACKSONVILLE

CERTIFIED - RETURN RECEIPT REQUESTED

Mr. Jerry Woosley
Department of Health, Welfare and
Bio-Environmental Control
515 W. 6th Street
Jacksonville, FL 32206

Subj: Boiler Inst/Repl NAS Cecil Field, FL

Dear Mr. Woosley:

Pursuant to Chapter 17-2 of the Florida Administrative Code, two applications to operate/construct air pollution sources, with emission calculations and location maps for the subject project are forwarded for your review. The subject project is for construction of two 50 MBTU/Hr boilers, one of which will replace an existing 50 MBTU/Hr boiler. The new boilers will burn natural gas as a primary fuel source with No. 2 fuel oil as the secondary fuel source. The proposed construction/operation will be in compliance with the applicable Florida Air Laws.

As required, the application fee of $1000.00 is forwarded by two checks payable to the Florida Department of Environmental Regulation. If any additional information is needed, please call Mr. Mike Goldston at the above telephone number. Your cooperation is appreciated.

Very truly yours,

D. E. BOTTORFF
CAPT, CEC, USN
Commanding Officer

Copy to: (w/o encl)
NAS Cecil Field, FL

BEST AVAILABLE COPY

NAVY PORT HUENEME, CALIFORNIA Check No. 1,059,482
SYMBOL 8352

DO NOT FOLD, SPINDLE OR MUTILATE
KNOW YOUR ENDORSER . . REQUIRE IDENTIFICATION

United States Treasury 15-51/000 3 MAR 83

PAY $800.00*

TO THE ORDER OF STATE OF FLORIDA
DEPT OF ENVIRONMENTAL REGULATION $800.00*

SALARIES AND EXPENSES

DRAWN FOR ABOVE OBJECT D B Sanchez

⑈83523⑈⑆000000518⑆ 01059482⑆

NAVY PORT HUENEME, CALIFORNIA Check No. 1,059,286
SYMBOL 8352

DO NOT FOLD, SPINDLE OR MUTILATE
KNOW YOUR ENDORSER . . REQUIRE IDENTIFICATION

United States Treasury 15-51/000 22 FEB 83

PAY $200.00*

TO THE ORDER OF STATE OF FLORIDA DEPT OF
ENVIRONMENTAL REGULATION $200.00*

SALARIES AND EXPENSES

DRAWN FOR ABOVE OBJECT D B Sanchez

⑈83523⑈⑆000000518⑆ 01059286⑆

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

№ 33661

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from United States Treasury Date April 4, 1983

Address Dept. of Navy Dollars $ 1,000

Applicant Name & Address Naval Air Station, Cecil Field, FL

Source of Revenue

Revenue Code 0101 Application Number AC16-67736 AC16-67737

By Patricia G. Adams

AC 16-67736

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207

RECEIVED MAR 21 1983 AIR & WATER POLLUTION CONTROL - CITY OF JACKSONVILLE

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Boiler [X] New[1] [ ] Existing[1]

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: Naval Air Station Cecil Field 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) 50 MBTU/Hr Steam Dual Fuel Boiler

SOURCE LOCATION: Street 2nd Street City Cecil Field

UTM: East 414986.82 North 3342943.11

Latitude 30 ° 13 ' ___ "N Longitude 81 ° 53 ' ___ "W

APPLICANT NAME AND TITLE: Commanding Officer, Naval Air Station

APPLICANT ADDRESS: Cecil Field, FL

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Naval Air Station Cecil Field

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: DE Bottorff

CAPT D. E. BOTTORFF, Commanding Officer
Name and Title (Please Type)

Date: 17 Mar 1983 Telephone No. (803) 743-4450

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 Laurens M. Pitts

Laurens M. Pitts
Name (Please Type)

Southern Division, Naval Facilities Engineering Command
Company Name (Please Type)

P.O. Box 10068, Charleston, SC 29411
Mailing Address (Please Type)

S.C. ~~Florida~~ Registration No. 5746 Date: 11 March 1983 Telephone No. 803-743-5510

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.

Project to install one 50 MBTU/Hr boiler to replace the existing 50 MBTU/Hr boiler with natural gas as the primary fuel source and No. 2 fuel oil as the secondary fuel source. This facility will result in full compliance.

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

Start of Construction June 1983 Completion of Construction June 1984

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.

FDER Permit #A01612509 dated October 5, 1978 for the existing 50 MBTU/Hr boiler and 35 MBTU/Hr boiler.

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 _____

Laurens M. Pitts
Name (Please Type)

Southern Division, Naval Facilities Engineering Command
Company Name (Please Type)

P.O. Box 10068, Charleston, SC 29411
Mailing Address (Please Type)

S.C. ~~Florida~~ Registration No. 5746 Date: 11 March 1983 Telephone No. 803-743-5510

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.

Project to install one 50 MBTU/Hr boiler to replace the existing 50 MBTU/Hr boiler with natural gas as the primary fuel source and No. 2 fuel oil as the secondary fuel source. This facility will result in full compliance.

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

Start of Construction June 1983 Completion of Construction June 1984

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.

FDER Permit #A01612509 dated October 5, 1978 for the existing 50 MBTU/Hr boiler and 35 MBTU/Hr boiler.

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ; if power plant, hrs/yr 8736 ; if seasonal, describe: The existing 35 MBTU/Hr boiler normally has handled the load during the summer months and the new 50 MBTU/Hr boiler will be utilized mainly during the winter months.

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? Yes

   a. If yes, has "offset" been applied? No

   b. If yes, has "Lowest Achievable Emission Rate" been applied? No

   c. If yes, list non-attainment pollutants. Ozone

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. Yes

3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? No

   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 justification 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:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
None				

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)

For Natural Gas

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	0.46	2.00	CH17-2.600(6)	Latest Tech.	0.46	2.00	N/A
SO_2	0.03	0.13	" "	"	0.03	0.13	N/A
NO_2	7.96	34.8	" "	"	7.96	34.8	N/A
CO	0.77	3.40	" "	"	0.77	3.40	N/A
THC	0.14	0.61	" "	"	0.14	0.61	N/A

[1]See Section V, Item 2.

[2]Reference 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)

[3]Calculated from operating rate and applicable standard.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
None				

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)

For Natural Gas

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	0.46	2.00	CH17-2.600(6)	Latest Tech.	0.46	2.00	N/A
SO_2	0.03	0.13	" "	"	0.03	0.13	N/A
NO_2	7.96	34.8	" "	"	7.96	34.8	N/A
CO	0.77	3.40	" "	"	0.77	3.40	N/A
THC	0.14	0.61	" "	"	0.14	0.61	N/A

[1]See Section V, Item 2.

[2]Reference 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)

[3]Calculated from operating rate and applicable standard.

[4]Emission, 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	
Natural Gas	0.045	0.045	50

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

Fuel Analysis: Natural Gas

Percent Sulfur: None Percent Ash: None

Density: N/A lbs/gal Typical Percent Nitrogen: 5.15%

Heat Capacity: 1100 BTU/ft^3 BTU/lb N/A 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: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 17,934 ACFM 8668 DSCFM Gas Exit Temperature: 450 °F.

Water Vapor Content: 10 % Velocity: 27.1 FPS

SECTION IV: INCINERATOR INFORMATION

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 Diamter: _____ 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) _____

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

Stack Height: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 17,934 ACFM 8668 DSCFM Gas Exit Temperature: 450 °F.

Water Vapor Content: 10 % Velocity: 27.1 FPS

SECTION IV: INCINERATOR INFORMATION

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 Diamter: _____ 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) _____

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
None				

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)

For 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	0.74	3.23	CH17-2.600(6)	Latest Tech.	0.74	3.23	N/A
SO_2	15.7	68.6	" "	"	15.7	68.6	N/A
NO_2	8.08	35.3	" "	"	8.08	35.3	N/A
CO	1.84	8.04	" "	"	1.84	8.04	N/A
THC	0.37	1.62	" "	"	0.37	1.62	N/A

[1]See Section V, Item 2.

[2]Reference 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)

[3]Calculated from operating rate and applicable standard.

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

E. Requested permitted equipment operating time: hrs/day_____; days/wk_____; wks/yr_____;

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? _____

   a. If yes, has "offset" been applied? _____

   b. If yes, has "Lowest Achievable Emission Rate" been applied? _____

   c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. _____

3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. _____

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? _____

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? _____

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? _____

   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 justification for any answer of "No" that might be considered questionable.

E. Requested permitted equipment operating time: hrs/day_____; days/wk_____; wks/yr_____;

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? _____

   a. If yes, has "offset" been applied? _____

   b. If yes, has "Lowest Achievable Emission Rate" been applied? _____

   c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. _____

3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. _____

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? _____

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? _____

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? _____

   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 justification for any answer of "No" that might be considered questionable.

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	0.061	0.061	50

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

Fuel Analysis: No. 2 Fuel Oil

Percent Sulfur: 0.02% 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: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 18,396 ACFM 9016 DSCFM Gas Exit Temperature: 450 °F.

Water Vapor Content: 15 % Velocity: 27.9 FPS

SECTION IV: INCINERATOR INFORMATION

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 $(BTU/hr)^1$	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ 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) _____

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

Stack Height: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 18,396 ACFM 9016 DSCFM Gas Exit Temperature: 450 °F.

Water Vapor Content: 15 % Velocity: 27.9 FPS

SECTION IV: INCINERATOR INFORMATION

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 Diamter: _____ 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

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

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

[ ] Yes [X] No

Contaminant	Rate or Concentration

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

[ ] Yes [X] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology? None

Contaminant	Rate or Concentration

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

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

*Explain method of determining

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

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

[ ] Yes [X] No

Contaminant	Rate or Concentration

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

[ ] Yes [X] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology? None

Contaminant	Rate or Concentration

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

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). N/A

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:

[1]Explain method of determining efficiency.
[2]Energy 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: N/A

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:

[1]Explain method of determining efficiency.
[2]Energy 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: N/A

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:

[1]Explain method of determining efficiency.
[2]Energy 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:

[1]Applicant 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

A. Company Monitored Data

1. _____no. sites _____ TSP _____( ) SO^2* _____ 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.

AC 16-67737

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: Boiler [X] New[1] [ ] Existing[1]

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: Naval Air Station Cecil Field 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) 50 MBTU/Hr Steam Duel Fuel Boiler

SOURCE LOCATION: Street 2nd Street City Cecil Field

UTM: East 414986.82 North 3342943.11

Latitude 30 ° 13 ' ___ "N Longitude 81 ° 53 ' ___ "W

APPLICANT NAME AND TITLE: Commanding Officer, Naval Air Station

APPLICANT ADDRESS: Cecil Field, FL

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Naval Air Station, Cecil Field

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: D E Bottorff

CAPT D. E. BOTTORFF, Commanding Officer
Name and Title (Please Type)

Date: 17 Mar 1983 Telephone No. (803) 743-4450

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 Laurens M. Pitts

Laurens M. Pitts
Name (Please Type)

Southern Division, Naval Facilities Engineering Command
Company Name (Please Type)

P.O. Box 10068, Charleston, SC 29411
Mailing Address (Please Type)

S.C. ~~Florida~~ Registration No. 5746 Date: 11 March 1983 Telephone No. 803-743-5510

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.

Project to install one 50 MBTU/Hr boiler with natural gas as the primary fuel source and No. 2 fuel oil as the secondary fuel source. This facility will result in full compliance.

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

Start of Construction June 1983 Completion of Construction June 1984

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.

FDER Permit #A01612509

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 _____

Laurens M. Pitts
Name (Please Type)

Southern Division, Naval Facilities Engineering Command
Company Name (Please Type)

P.O. Box 10068, Charleston, SC 29411
Mailing Address (Please Type)

S.C. ~~Florida~~ Registration No. 5746 Date: 11 March 1983 Telephone No. 803-743-5510

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.

Project to install one 50 MBTU/Hr boiler with natural gas as the primary fuel source and No. 2 fuel oil as the secondary fuel source. This facility will result in full compliance.

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

Start of Construction June 1983 Completion of Construction June 1984

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.

FDER Permit #A01612509

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ; if power plant, hrs/yr 8736 ; if seasonal, describe: The existing 35 MBTU/Hr boiler normally has handled the load during the summer months. The new boiler will be utilized mainly during the winter months as a backup.

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? Yes

   a. If yes, has "offset" been applied? No

   b. If yes, has "Lowest Achievable Emission Rate" been applied? No

   c. If yes, list non-attainment pollutants. Ozone

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. Yes

3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? No

   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 justification 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:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
None				

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)

For Natural Gas

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	0.46	2.00	CH 17-2.600(6)	Latest Tech.	0.46	2.00	N/A
SO_2	0.03	0.13	" "	"	0.03	0.13	N/A
NO_2	7.96	34.8	" "	"	7.96	34.8	N/A
CO	0.77	3.40	" "	"	0.77	3.40	N/A
THC	0.14	0.61	" "	"	0.14	0.61	N/A

[1]See Section V, Item 2.

[2]Reference 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)

[3]Calculated from operating rate and applicable standard.

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
None				

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)

For Natural Gas

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	0.46	2.00	CH 17-2.600(6)	Latest Tech.	0.46	2.00	N/A
SO_2	0.03	0.13	" "	"	0.03	0.13	N/A
NO_2	7.96	34.8	" "	"	7.96	34.8	N/A
CO	0.77	3.40	" "	"	0.77	3.40	N/A
THC	0.14	0.61	" "	"	0.14	0.61	N/A

[1]See Section V, Item 2.

[2]Reference 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)

[3]Calculated from operating rate and applicable standard.

[4]Emission, 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	
Natural Gas	0.045	0.045	50

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

Fuel Analysis: Natural Gas

Percent Sulfur: None Percent Ash: None

Density: N/A lbs/gal Typical Percent Nitrogen: 5.15%

Heat Capacity: 1100 BTU/ft^3 BTU/lb N/A 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: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 17,934 ACFM 8668 DSCFM Gas Exit Temperature: 450 °F.

Water Vapor Content: 10 % Velocity: 27.1 FPS

SECTION IV: INCINERATOR INFORMATION

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 Diamter: _____ 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) _____

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

Stack Height: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 17,934 ACFM 8668 DSCFM Gas Exit Temperature: 450 °F.

Water Vapor Content: 10 % Velocity: 27.1 FPS

SECTION IV: INCINERATOR INFORMATION

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 Diamter: _____ 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) _____

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
None				

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)

For 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	0.74	3.23	CH17-2.600(6)	Latest Tech.	0.74	3.23	N/A
SO_2	15.7	68.6	" "	"	15.7	68.6	N/A
NO_2	8.08	35.3	" "	"	8.08	35.3	N/A
CO	1.84	8.04	" "	"	1.84	8.04	N/A
THC	0.37	1.62	" "	"	0.37	1.62	N/A

[1]See Section V, Item 2.

[2]Reference 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)

[3]Calculated from operating rate and applicable standard.

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

E. Requested permitted equipment operating time: hrs/day_____; days/wk_____; wks/yr_____;

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? _____

   a. If yes, has "offset" been applied? _____

   b. If yes, has "Lowest Achievable Emission Rate" been applied? _____

   c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. _____

3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. _____

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? _____

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? _____

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? _____

   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 justification 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:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
None				

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)

For 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	0.74	3.23	CH17-2.600(6)	Latest Tech.	0.74	3.23	N/A
SO_2	15.7	68.6	" "	"	15.7	68.6	N/A
NO_2	8.08	35.3	" "	"	8.08	35.3	N/A
CO	1.84	8.04	" "	"	1.84	8.04	N/A
THC	0.37	1.62	" "	"	0.37	1.62	N/A

[1]See Section V, Item 2.

[2]Reference 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)

[3]Calculated from operating rate and applicable standard.

[4]Emission, 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	0.061	0.061	50

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

Fuel Analysis: No. 2 Fuel Oil

Percent Sulfur: 0.02% 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: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 18,396 ACFM 9016 DSCFM Gas Exit Temperature: 450 °F.

Water Vapor Content: 15 % Velocity: 27.9 FPS

SECTION IV: INCINERATOR INFORMATION

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 Diamter: _____ 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) _____

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

Stack Height: 43 ft. Stack Diameter: 3.75 ft.

Gas Flow Rate: 18,396 ACFM 9016 DSCFM Gas Exit Temperature: 450 °F.

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

Manufacturer _____

Date Constructed _____ Model No. _____

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			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ 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

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

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

[ ] Yes [X] No

Contaminant	Rate or Concentration

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

[ ] Yes [X] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology? None

Contaminant	Rate or Concentration

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

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

*Explain method of determining

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.

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Contaminant	Rate or Concentration

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

[ ] Yes [X] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology? None

Contaminant	Rate or Concentration

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

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). N/A

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:

[1]Explain method of determining efficiency.
[2]Energy 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: N/A

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:

[1]Explain method of determining efficiency.
[2]Energy 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: N/A

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:

[1]Explain method of determining efficiency.
[2]Energy 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:

[1]Applicant 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

A. Company Monitored Data

1. _____no. sites _____ TSP _____( ) SO^2* _____ 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 INST/REPL NAS CECIL FIELD, FL
EMISSION CALCULATIONS

I. Natural Gas

A. Flow Rate = $\frac{\text{Capacity}}{\text{Heat Content}} = \frac{50 \text{ MBTU/Hr}}{.0011 \text{ MBTU/ft}^3} = 45{,}454.5 \text{ ft}^3\text{/hr}$

B.

Pollutant	*Emission Factor ($lb/10^6$ Ft^3)	X	Flow Rate (10^6 Ft^3/Hr)	=	Discharge (lb/hr)	Discharge (ton/yr)
Particulate	10		.0455		0.46	2.0
SO_2	0.6		.0455		0.03	0.13
NO_2	175		.0455		7.96	34.8
CO	17		.0455		0.77	3.4
THC	3		.0455		0.14	0.61

*From EPA AP-42

C. Gas Flow Rate at Stack = (flow rate) (products of combustion)

Products of combustion - 13.525 ft^3/ft^3, from EPA AP-40 with 20% excess air @ 60°F

Gas Flow Rate = (45,454.5 ft^3/hr) (13.525 ft^3/ft^3) = 614,772 ft^3/hr = 170.8 CFS

Actual Gas Flow Rate = $\frac{460+450}{460 + 60}$ (170.8) = 298.9 ACFS

D. Velocity = $\frac{\text{Quantity}}{\text{Area}} = \frac{298.9 \text{ ft}^3\text{/Sec}}{(\pi(3.75)^2/4) \text{ ft}^2} = 27.1$ FPS

II. No. 2 Fuel Oil

A. Flow Rate = $\frac{\text{Capacity}}{\text{Heat Content}} = \frac{50 \text{ MBTU/Hr}}{.136 \text{ MBTU/gal}} = 367.6 \text{ gal/hr} = 2511 \text{ lb/hr}$

B.

Pollutant	*Emission Factor ($lb/10^3$ gal)	Flow Rate (10^3 gal/hr)	Discharge (lb/hr)	Discharge (ton/yr)
Particulate	2	.3676	0.74	3.23
SO_2	42.6	.3676	15.7	68.6
NO_2	22	.3676	8.08	35.3
CO	5	.3676	1.84	8.04
THC	1	.3676	0.37	1.62

*From EPA AP-42

Note: No. 2 fuel oil is utilized as a secondary fuel and is normally used less than four weeks a year.

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^oF with 20 % excess air

Gas Flow Rate = (2511 lb/hr) (251.2 ft^3/lb) = 175.2 CFS

$$\text{Actual Gas Flow Rate} = \frac{460+450}{460+60} \quad (175.2) = 306.6 \text{ ACFS}$$

$$\text{D. Velocity} = \frac{\text{Quantity}}{\text{Area}} \qquad \frac{306.6 \text{ ft}^3/\text{sec}}{11 \text{ ft}^2} = 27.9 \text{ FPS}$$

<u>Addendum</u>

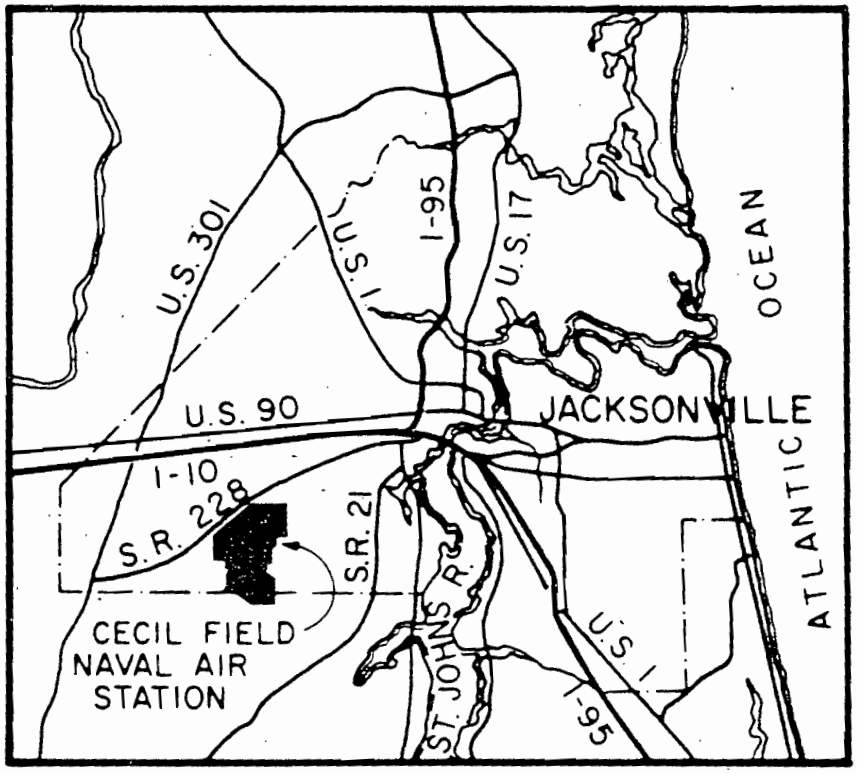
I. Natural Gas Flow Rate (DSCFM) = (45,454.5 ft^3/Hr) (11.442 ft^3/ft^3)/(60 min/hr)
= 8668 DSCFM

II. No. 2 Fuel Oil Flow Rate (DSCFM) = (2511 lb/hr) (215.4 ft^3/lb)/(60 min/hr)
= 9,016 DSCFM

FIELD, FLORIDA

BEST AVAILABLE COPY

CATIONS

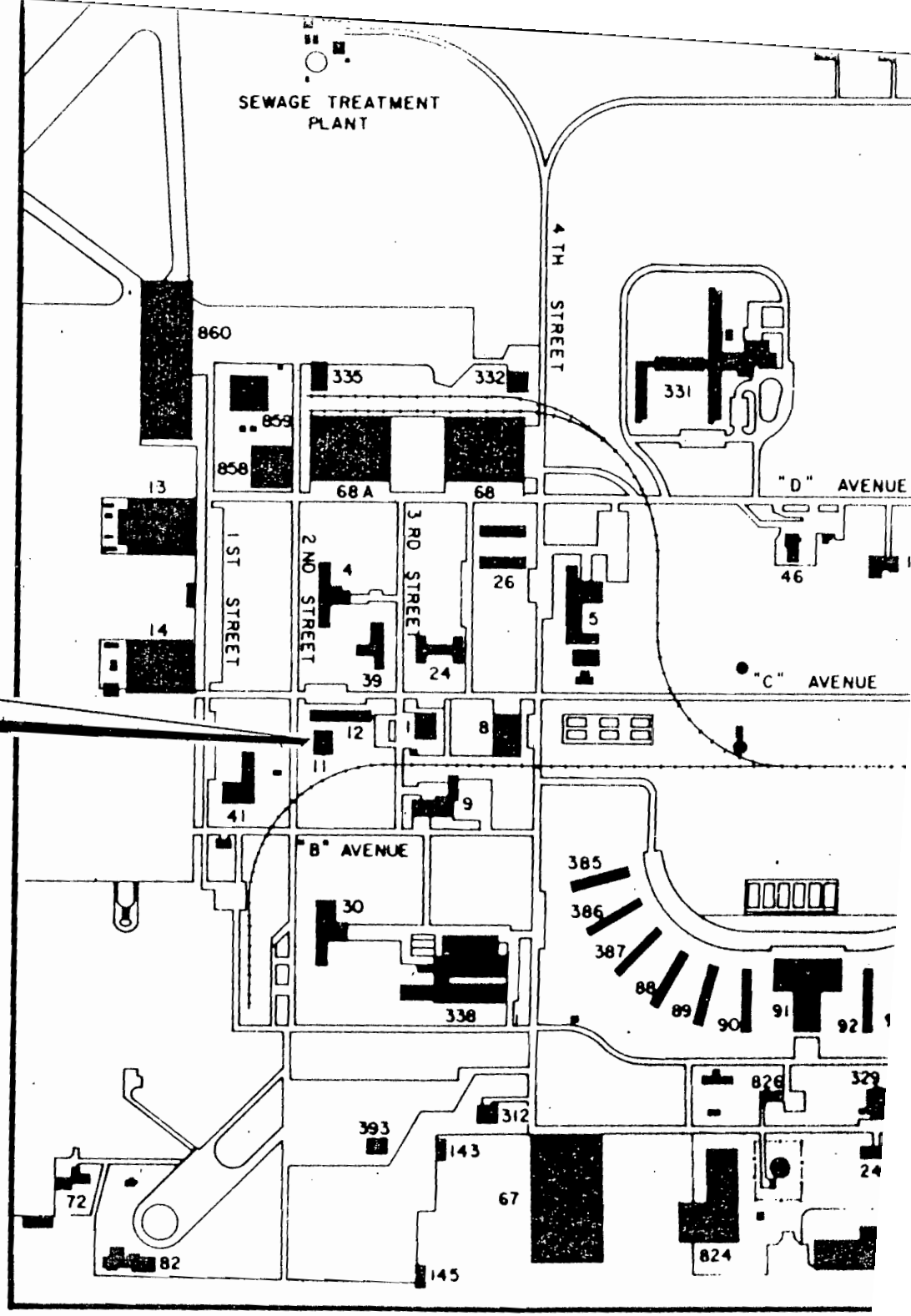


VICINITY MAP

NOT TO SCALE

MAIN GATE

BEST AVAILABLE COPY



PROJECT LOCATION

(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

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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.