

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

<b>3. Article Addressed to:</b> Mr. J. A. Henneberger VP-Division Counsel United Technologies Corp. Pratt & Whitney P. O. Box 109600 West Palm Beach, FL 33410-9600	<b>4. Article Number</b> P 938 762 595  <b>Type of Service:</b> <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b>	
<b>5. Signature - Address</b> X	<b>8. Addressee's Address (ONLY if requested and fee paid)</b>
<b>6. Signature - Agent</b> X <i>[Signature]</i>	
<b>7. Date of Delivery</b> JUN 22 1989	

PS Form 3811, Mar. 1988      \* U.S.G.P.O. 1988-212-865      DOMESTIC RETURN RECEIPT

P 938 762 595

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. J. A. Henneberger, United	
Street and No. P.O. Box 109600 Technologies	
P.O., State and ZIP Code W. Palm Beach, FL 33410-9600	
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 Mailed: 6-20-89 Permit: AC 50-162374	

PS Form 3800, June 1985



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

Mr. J. A. Henneberger  
VP-Division Counsel  
United Technologies Corp./Pratt & Whitney  
Post Office Box 109600  
West Palm Beach, Florida 33410-9600

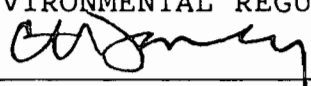
June 20, 1989

Enclosed is permit No. AC 50-162374 to install two gas-fired jet fuel heaters at your facility in West Palm Beach, Palm Beach County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

Copies furnished to:

I. Goldman, SE District  
W. Dail, Pratt & Whitney  
E. Allen III, Pratt & Whitney  
G. Sacco, PBCHD

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 6-20-89.

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

Martha Wise  
Clerk

6-20-89  
Date

Final Determination

United Technologies Corp.  
Pratt & Whitney  
Palm Beach County  
West Palm Beach, Florida

Two Gas-Fired Jet Fuel Heaters  
Permit No. AC 50-162374

Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Quality Management  
Central Air Permitting

June 13, 1989

## Final Determination

The construction permit application has been reviewed by the Department. Public notice of the Department's Intent to Issue was published in The Palm Beach Post on May 27, 1989. The Technical Evaluation and Preliminary Determination were available for public inspection at the DER's Southeast District office in West Palm Beach, the Palm Beach County Health Department in West Palm Beach, and the DER's Bureau of Air Quality Management office in Tallahassee.

No comments were received during the public notice period. Therefore, the final action of the Department will be to issue the construction permit as drafted.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

United Technologies Corp.,  
Pratt & Whitney  
P. O. Box 109600  
West Palm Beach, FL 33410-9610

Permit Number: AC 50-162374  
Expiration Date: May 31, 1990  
County: Palm Beach  
Latitude/Longitude: 26°53'42"N  
80°21'36"W  
Project: Two Gas-Fired Jet Fuel  
Heaters

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

For the installation of two gas-fired jet fuel heaters. This project will be located in West Palm Beach, Palm Beach County, Florida. The UTM coordinates of this site are Zone 17, 562 km E and 2976 km N.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-1.202(1) received on March 20, 1989.

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

**GENERAL CONDITIONS:**

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

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

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

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

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

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

**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 non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.



PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

GENERAL CONDITIONS:

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

**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. The construction and operation of this source shall be in accordance with the capacities and specifications stated in the application.
2. Visible emissions shall not be greater than 5% opacity in accordance with F.A.C. Rule 17-2.650(2)(c)12., and compliance shall be demonstrated at 90-100% of maximum permitted capacity using DER Method 9, in accordance with F.A.C. Rule 17-2.700.

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

SPECIFIC CONDITIONS:

3. Each of the jet fuel heaters shall be fired only by natural gas and at a maximum rate of 6.0 MM Btu/hr for up to 8760 hours per year.

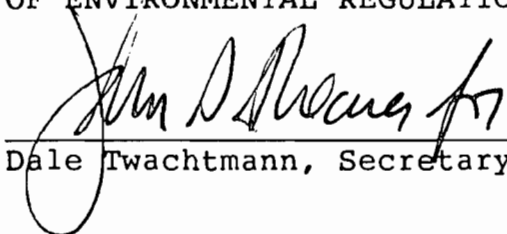
4. The compliance test shall be conducted within 30 days after each heater is placed in operation and the results reported to the Department's Southeast District Office and the Palm Beach County Health Department within 45 days of testing. A DER Form 17-1.202(3), Certificate of Completion of Construction, shall be submitted with the test report. The Department's Southeast District Office and the Palm Beach County Health Department shall be notified at least 15 days prior to the compliance test and at least 5 days prior to the heaters being placed in operation.

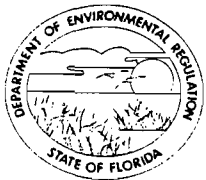
5. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

6. An application for an operation permit must be submitted to the DER's Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this 19<sup>th</sup> day  
of June, 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtmann, Secretary



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Dale Twachtmann

fr FROM: Steve Smallwood *[Signature]*

DATE: June 14, 1989

SUBJ: Approval of Construction Permit No. AC 50-162374  
United Technologies Corp./Pratt & Whitney

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned company to install two gas-fired jet fuel heaters at their West Palm Beach facility.

No comments were received during the public notice period. Day 90, after which this permit will be issued by default, is July 14, 1989.

I recommend your approval and signature.

SS/JR/s

attachments

**RECEIVED**  
JUN 15 1989

*Please call  
Patty Adams  
when signed  
8-134/4*

Office of the Secretary

Check Sheet

Company Name: United Technologies - Pratt & Whitney  
Permit Number: AC50-162379  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

- |   |                          |
|---|--------------------------|
| <input checked="" type="checkbox"/> Initial Application | Cross References:        |
| <input type="checkbox"/> Incompleteness Letters         | <input type="checkbox"/> |
| <input type="checkbox"/> Responses                      | <input type="checkbox"/> |
| <input type="checkbox"/> Waiver of Department Action    | <input type="checkbox"/> |
| <input type="checkbox"/> Department Response            |                          |
| <input type="checkbox"/> Other                          |                          |

**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

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)  
 2.  Restricted Delivery (Extra charge)

3. Article Addressed to: J.A. Henneberger V.P. United Tech. Corp. P.O. Box P.O. Box 109600 West Palm Beach, FL 33410-9600	4. Article Number P 938 762 859
5. Signature - Address X	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X <i>T. Mills</i>	Always obtain signature of addressee or agent and DATE DELIVERED.
7. Date of Delivery <i>8-9</i>	8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 938 762 859

**RECEIPT FOR CERTIFIED MAIL**

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

Sent to <i>J.A. Henneberger</i>	
Street and No. <i>P.O. Box 109600</i>	
P.O., State and ZIP Code <i>West Palm Beach, FL</i>	
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	

PS Form 3800, June 1985



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

April 3, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. J. A. Henneberger  
VP - Division Counsel  
United Technologies Corp./Pratt & Whitney  
Post Office Box 109600  
West Palm Beach, Florida 33410-9600

Dear Mr. Henneberger:

The Department received your request for an extension of the expiration date for the construction permit referenced below. The request is acceptable and the following shall be changed:

Project: AC 50-162374

From: May 31, 1990

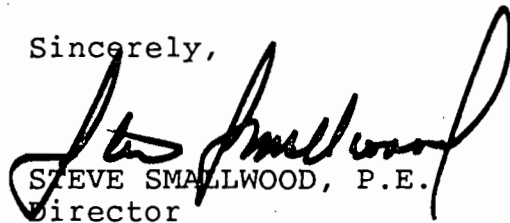
To: May 31, 1991

Attachment to be Incorporated:

Letter from W. J. Dail dated March 16, 1990, requesting a change in the expiration date.

This letter must be attached to your construction permit AC 50-162374 and shall become a part of that permit.

Sincerely,



STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management

SS/plm

c: S. Brooks, SE District  
L. Hill, UT P&W  
W. Dail, UT P&W  
J. Stormer, PBCHD



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

---

TO: Steve Smallwood  
FROM: *for* Clair Fancy *JKP*  
DATE: April 3, 1990

SUBJ: Amendment to Construction Permit No. 50-162374  
United Technologies - Pratt & Whitney

Attached for your approval and signature is a letter extending the expiration date for the above referenced construction permit.

The Bureau recommends approval of this amendment.

CF/JR/plm

Attachment

*OK*  
*BT*



Government Products Division

March 16, 1990

RECEIVED  
MAR 19 1990

Mr. C. H. Fancy  
Deputy Chief  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Fl. 32399-2400

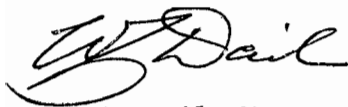
Re: Extension for Permit Number AC 50-162374

Dear Mr. Fancy:

Due to a change in requirements, installation of one of the heaters covered under the above referenced permit has been postponed. Therefore, Pratt & Whitney requests that the permit be extended to May 31, 1991.

Should you have any questions, please contact Lisa Hill at (407) 796-5655.

Sincerely,



W. J. Dail, Manager  
Utilities Operations/Environmental Affairs

cc: E. Allen  
S. Bullock  
L. Hill  
J. Lipsit  
I. Goldman - DER  
File - Air Pollution Correspondence

*J. Reynolds*  
*CHE/JP/BT*

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. J. A. Henneberger V.P. - Division Counsel United Tech. Corp./Pratt & Whitney P.O. Box 109600 West Palm Beach, FL 33410-9600	4. Article Number P 938 762 838
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery 3-5	

PS Form 3811, Mar. 1988 \* U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 938 762 838

**RECEIPT FOR CERTIFIED MAIL**

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

Mail to J. A. Henneberger	
V.P. Division Counsel	
Street and No. United Tech. Corp./Pratt & Whitney	
P.O. State and ZIP Code P.O. Box 109600	
Postage Palm Beach, FL 33410-9600	
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 mailed: 3/2/90	
AC 50-162374	

File Copy



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

March 1, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. J. A. Henneberger  
VP - Division Counsel  
United Technologies Corp./Pratt & Whitney  
Post Office Box 109600  
West Palm Beach, Florida 33410-9600

Dear Mr. Henneberger:

Re: Amendment of Permit No. AC 50-162374

The above permit is amended as stated below to change the opacity limit as requested in Mr. Dail's letter dated February 12, 1990. The changes are shown below:

Present Specific Condition No. 2:

Visible emissions shall not be greater than 5% opacity in accordance with F.A.C. Rule 17-2.650(2)(c)12., and compliance shall be demonstrated at 90-100% of maximum permitted capacity using DER Method 9, in accordance with F.A.C. Rule 17-2.700.

New Specific Condition No. 2.:

Visible emissions shall not be greater than 20% opacity in accordance with F.A.C. Rule 17-2.610(2), and compliance shall be demonstrated at 90-100% of maximum permitted capacity using DER Method 9, in accordance with F.A.C. Rule 17-2.700.

This amendment letter shall become Attachment No. 2 to your construction permit AC 50-162374.

Sincerely,

STEVE SMALLWOOD, P.E.  
Director  
Division of Air Resources  
Management

SS/plm

c: S. Brooks, SE District  
L. Hill, UT-P&W  
W. Dail, UT-P&W  
J. Stormer, PBCHD

Ready File } 3-1-90  
John Reynolds }  
mailed: 3/2/90 CM-RRR





State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Steve Smallwood  
FROM: *for* Clair Fancy *JRP*  
DATE: February 23, 1990  
SUBJ: Amendment to Construction Permit No. AC 50-162374

Attached for your approval and signature is a letter modifying Specific Condition No. 2 for the above referenced construction permit.

The Bureau recommends approval of this amendment.

CF/JR/plm

Attachment

February 12, 1990

RECEIVED

FEB 20 1990

DER-BAQ:W

Mr. C. H. Fancy  
Deputy Chief  
Bureau of Air Quality Management  
Florida Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

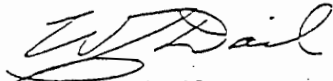
RE: Permit No. AC 50-162374

Dear Mr. Fancy:

Based on a recent telephone conversation with Ms. Stephanie Brooks of DER, West Palm Beach, it has come to our attention that specific condition # 2 of the above referenced permit is incorrect. Florida Administrative Code (FAC) 17-2.650(2) applies to sources that emit particulate matter and are located in a particulate matter air quality maintenance area or in the area of influence of such an air quality maintenance area. Because Palm Beach County is not located in either of these areas, FAC 17-2.650(2) is not applicable. Instead, these sources should be regulated under FAC 17-2.610(2) which is the general visible emissions standard for sources of particulate matter not subject to a particulate emission limit or opacity limit.

It is requested that the above referenced permit be revised to reflect these changes. Should you have any questions, please contact Lisa Hill at (407) 796-5655.

Sincerely,



W. J. Dail, Manager  
Utilities Operations/Environmental Affairs

WJD\001:LET\emb

cc: S. Brooks, DER, West Palm Beach, Florida  
L. Hill  
J. Stormer, PBCHU, West Palm Beach, Florida  
File: Air Pollution Correspondence

*J. Reynolds*  
CHA/SKP/BT



**UNITED  
TECHNOLOGIES  
PRATT & WHITNEY**

*Exp. Mail B 95791105  
6-1-89  
w. Palm Beach, FL*

*file copy*  
P.O. Box 109600  
West Palm Beach, FL 33410-9600  
(305) 840-2000

June 1, 1989

**Government Engine Business**

C. H. Fancy, Deputy Chief  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**RECEIVED**

**JUN 2 1989**

Re: Proof of Publication - Notice of Proposed Agency  
Action - Two Test Area A Air Heaters

**DER-BAQI.**

Dear Mr. Fancy:

In accordance with your letter of May 18, 1989, the Notice of Proposed Agency Action for the subject matter was published in the legal section of the "Post" on May 27, 1989. As requested, we are enclosing "Proof of Publication" from The Palm Beach Post covering this publication.

Should you have any questions, please contact Lisa Hill at (407) 796-5655.

Sincerely,

W. J. Dail, Manager  
Utilities Operations/Environmental Affairs

WJD/1h/8322  
Enclosure

cc: S. Benyon, DER-WPB  
S. Brattebo  
R. Henson  
J. Stormer - PBCHD

*Copies: J. Reynolds*

# THE PALM BEACH POST

Published Daily and Sunday  
West Palm Beach, Palm Beach County, Florida

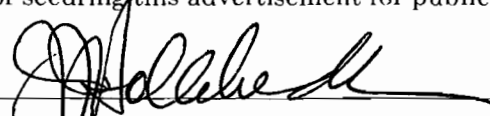
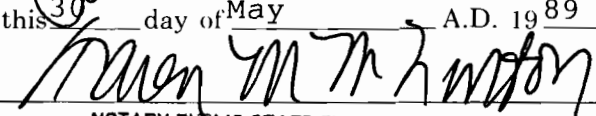
## PROOF OF PUBLICATION

STATE OF FLORIDA  
COUNTY OF PALM BEACH

Before the undersigned authority personally appeared J. J. Hollenbeck  
who on oath says that she/he is Class. Adv. Mgr. of The Palm Beach Post,  
a daily and Sunday newspaper published at West Palm Beach in Palm Beach County,  
Florida; that the attached copy of advertising, being a \_\_\_\_\_  
Notice  
in the matter of \_\_\_\_\_ Intent to issue  
in the \_\_\_\_\_ Court, was published in said newspaper in  
the issues of \_\_\_\_\_ May 27, 1989

Affiant further says that the said The Post is a newspaper published at West Palm Beach, in said Palm Beach County, Florida, and that the said newspaper has heretofore been continuously published in said Palm Beach County, Florida, daily and Sunday and has been entered as second class mail matter at the post office in West Palm Beach, in said Palm Beach County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she/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 the said newspaper.

Sworn to and subscribed before me this 30 day of May A.D. 1989

  
  
NOTARY PUBLIC STATE OF FLORIDA  
MY COMMISSION EXP. NOV. 15, 1992  
BONDED THROUGH GENERAL INS. UND.

NO. 129526  
State of Florida  
Department of  
Environmental Regulation  
Notice of Intent to Issue  
The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to United Technologies Corp., Pratt & Whitney, Post Office Box 109600, West Palm Beach, Florida, 33410-9600, to install two gas-fired jet fuel heaters at their facility in West Palm Beach, Florida. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. The Petition shall contain the following information:  
(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;  
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;  
(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;  
(d) A statement of the material facts disputed by Petitioner, if any;  
(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;  
(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's

action or proposed action; and  
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.  
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The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:  
Department of  
Environmental Regulation  
Bureau of Air Quality  
Management  
2600 Blair Stone Road  
Tallahassee, Florida  
32399-2400  
Dept. of  
Environmental Regulation  
Southeast Florida District  
1900 S. Congress Ave.,  
Suite A  
West Palm Beach,  
Florida 33406  
Palm Beach County  
Health Dept.  
Division of Environmental  
Science and Engineering  
901 E. Evernia Street  
West Palm Beach,  
Florida 33402  
Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of publication of this notice will be considered in the Department's final determination.  
PUB: Palm Beach Post  
May 27, 1989



P.O. Box 109600  
West Palm Beach, FL 33410-9600  
(305) 840-2000

Government Engine Business

May 25, 1989

RECEIVED

MAY 30 1989

DER-BAQM

Palm Beach Post & Times  
Legal Advertising Department  
2751 South Dixie Highway  
West Palm Beach, Florida 33405

Attn: Legal Advertising

Gentlemen:

Please publish the attached notice one time only in the Legal Advertisement Section of the Palm Beach Post on Saturday, May 27, 1989.

It is requested that you prepare an affidavit of publication for submission to the Florida Department of Environmental Regulation (DER). Please notify Lisa Hill of our office (796-5655) when it is ready for pickup.

Please forward the bill to the following address.

W. J. Dail  
Pratt & Whitney  
P.O. Box 109600 - Mail Stop 717-03  
West Palm Beach, Florida 33410-9600

Sincerely,

A handwritten signature in cursive script, appearing to read "W. J. Dail".

W. J. Dail  
Environmental Affairs

pc(0982j)  
Attachment

cc: S. Benyon - DER-WPB  
S. Brattebo  
R. Henson  
C. Fancy - DER-Tallahassee



State of Florida  
Department of Environmental Regulation  
Notice of Intent to Issue

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

Dept. of Environmental Regulation  
Southeast Florida District  
1900 S. Congress Avenue, Suite A  
West Palm Beach, Florida 33406

Palm Beach County Health Dept.  
Division of Environmental Science  
and Engineering  
901 E. Evernia Street  
West Palm Beach, Florida 33402

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RECEIVED  
MAY 30 1989  
DER-BAQM

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 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 additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

<b>3. Article Addressed to:</b> Mr. J. A. Henneberger VP - Division Counsel United Technologies Corp P. O. Box 109600 West Palm Beach, FL 33410-9600	<b>4. Article Number</b> P 274 010 390
	<b>Type of Service:</b> <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b>	
<b>5. Signature - Address</b> X	<b>8. Addressee's Address (ONLY if requested and fee paid)</b>
<b>6. Signature - Agent</b> X <i>T. M. Kelly</i>	
<b>7. Date of Delivery</b> JUN 19 1989	

PS Form 3811, Mar. 1988      \* U.S.G.P.O. 1988-212-865      DOMESTIC RETURN RECEIPT

P 274 010 390

**RECEIPT FOR CERTIFIED MAIL**  
 NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

* U.S.G.P.O. 1985-480-794  PS Form 3800, June 1985	Sent to <b>Mr. J. A. Henneberger, United Tech.</b>
	Street and No. <b>P.O. Box 109600</b>
	P.O., State and ZIP Code <b>West Palm Beach, FL 33410-9600</b>
	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 <b>Mailed: 5-19-89</b> <b>Permit: AC 50-162374</b>	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

May 18, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. J. A. Henneberger  
VP - Division Counsel  
United Technologies Corp./Pratt & Whitney  
P. O. Box 109600  
West Palm Beach, Florida 33410-9600

Dear Mr. Henneberger:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for installation of two gas-fired jet fuel heaters at your West Palm Beach facility.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

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

CHF/JR/plm

Attachments

cc: I. Goldman, SE District  
W. Dail, Pratt & Whitney  
E. Allen III, Pratt & Whitney  
G. Sacco, PBCHD

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

United Technologies Corp.,  
Pratt & Whitney  
P. O. Box 109600  
West Palm Beach, Florida 33410-9600

DER File No. AC 50-162374

---

INTENT TO ISSUE

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

The applicant, United Technologies Corp., Pratt & Whitney, applied on March 20, 1989, to the Department of Environmental Regulation for a permit to install two gas-fired jet fuel heaters at their facility in West Palm Beach, Palm Beach County, Florida.

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

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

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(d) A statement of the material facts disputed by Petitioner, if any;

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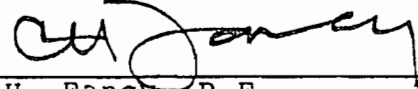
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Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



---

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

Copies furnished to:

- I. Goldman, SE. District
- W. Dail, Pratt & Whitney
- E. Allen III, Pratt & Whitney
- G. Sacco, PBCHD



State of Florida  
Department of Environmental Regulation  
Notice of Intent to Issue

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2600 Blair Stone Road  
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Dept. of Environmental Regulation  
Southeast Florida District  
1900 S. Congress Avenue, Suite A  
West Palm Beach, Florida 33406

Palm Beach County Health Dept.  
Division of Environmental Science  
and Engineering  
901 E. Evernia Street  
West Palm Beach, Florida 33402

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Technical Evaluation  
and  
Preliminary Determination

United Technologies Corp.  
Pratt & Whitney  
Palm Beach County  
West Palm Beach, Florida

Two Gas-Fired Jet Fuel Heaters  
Permit No. AC 50-162374

Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Quality Management  
Central Air Permitting

May 17, 1989

## I. Application Information

### A. Applicant

United Technologies Corp.  
Pratt & Whitney  
P. O. Box 109600  
West Palm Beach, Florida 33410-9600

### B. Request

The Department received an application on March 20, 1989, for a permit to install two gas-fired jet fuel heaters at the applicant's site near West Palm Beach, Florida. The application was deemed complete on April 19, 1989.

### C. Location/Classification

The applicant's aircraft engine testing facility (SIC Code 3724) is located off State Road 710 approximately 20 miles northwest of West Palm Beach. Latitude and longitude are 26°53'42"N and 80°21'36"W, respectively. The UTM coordinates of the site are: Zone 17, 562 km E and 2976 km N.

## II. Project Description/Emissions

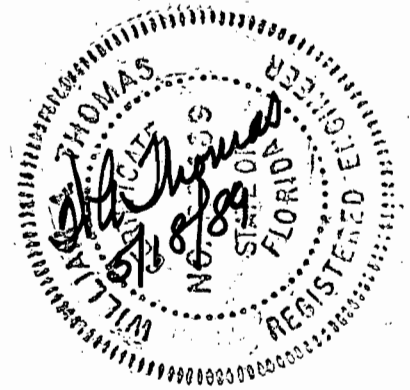
The applicant proposes to install two natural gas-fired heaters for preheating jet fuel used at the aircraft engine testing facility. Each heater will have a maximum capacity of 6.0 MM Btu/hr. The heaters will be designed to preheat jet fuel through indirect heat exchange using a closed loop heat transfer fluid. Location of the heaters will be Test Area "A" near stations A4 and A10. No air pollution control device is being installed since the only emissions from the project are combustion products of natural gas totalling less than 9 TPY.

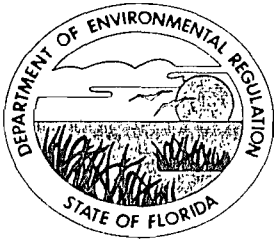
## III. Rule Applicability

The construction permit application is subject to review under Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Rules 17-2 and 17-4. The proposed project is located in an area classified as nonattainment for ozone and attainment for other designated pollutants. Since the proposed installation is classified as a minor source, it is not subject to the new source review requirements of Rule 17-2.510. Applicable rules are F.A.C. Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, and F.A.C. Rule 17-2.650(2)(c)12.

IV. Conclusion

Based on the information provided by the applicant, the Department has reasonable assurance that the proposed project, as proposed herein, will not cause or contribute to a violation of an ambient air quality standard, PSD increment, or any other technical provisions of Chapter 17-2 of the Florida Administrative Code.





## Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
United Technologies Corp.,  
Pratt & Whitney  
P. O. Box 109600  
West Palm Beach, FL 33410-9610

Permit Number: AC 50-162374  
Expiration Date: May 31, 1990  
County: Palm Beach  
Latitude/Longitude: 26°53'42"N  
80°21'36"W  
Project: Two Gas-Fired Jet Fuel  
Heaters

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

For the installation of two gas-fired jet fuel heaters. This project will be located in West Palm Beach, Palm Beach County, Florida. The UTM coordinates of this site are Zone 17, 562 km E and 2976 km N.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-1.202(1) received on March 20, 1989.

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

**GENERAL CONDITIONS:**

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

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

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

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

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

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

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 non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.



PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

**GENERAL CONDITIONS:**

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

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

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

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

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

13. This permit also constitutes:

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

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

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

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

**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. The construction and operation of this source shall be in accordance with the capacities and specifications stated in the application.

2. Visible emissions shall not be greater than 5% opacity in accordance with F.A.C. Rule 17-2.650(2)(c)12., and compliance shall be demonstrated at 90-100% of maximum permitted capacity using DER Method 9, in accordance with F.A.C. Rule 17-2.700.

PERMITTEE:  
United Technologies Corp.

Permit No. AC 50-162374  
Expiration Date: May 31, 1990

**SPECIFIC CONDITIONS:**

3. Each of the jet fuel heaters shall be fired only by natural gas and at a maximum rate of 6.0 MM Btu/hr for up to 8760 hours per year.

4. The compliance test shall be conducted within 30 days after each heater is placed in operation and the results reported to the Department's Southeast District Office and the Palm Beach County Health Department within 45 days of testing. A DER Form 17-1.202(3), Certificate of Completion of Construction, shall be submitted with the test report. The Department's Southeast District Office and the Palm Beach County Health Department shall be notified at least 15 days prior to the compliance test and at least 5 days prior to the heaters being placed in operation.

5. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

6. An application for an operation permit must be submitted to the DER's Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

---

Dale Twachtmann, Secretary



P.O. Box 109600  
West Palm Beach, FL 33410-9600  
(305) 840-2000

RECEIVED  
DER - MAIL ROOM

1989 MAR 20 PM 12: 22

Government Engine Business

March 16, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

RECEIVED

MAR 20 1989

DER - BAQM

Mr. Clair H. Fancy  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32301-8241

Re: Air Pollution Construction Permit - Two Test Area A Air Heaters

Dear Mr. Fancy:

Enclosed are four (4) copies of DER Form 17-1.202(1) "Application to Operate/Construct Air Pollution Sources" for the above referenced air sources. In accordance with FAC 17-4.050 (4)(a)3, we have also included the required check (No. 302614) for \$200 made payable to the Department of Environmental Regulation.

Your efforts to issue this permit will be greatly appreciated. Should you have any questions, please contact Lisa Hill at (407) 796-5655.

Sincerely,

W. J. Dail, Manager  
Utilities Operations/Environmental Affairs

Attachment

cc: S. Brattebo - w/attachment  
I. Goldman - DER w/attachment  
R. Henson - w/o attachment  
Jim Stormer - PBCHD - w/attachment

(8070e)

OPERATING ACCOUNT



50-937  
213

302164  
302164

THE CHASE MANHATTAN BANK, N.A.  
SYRACUSE, NEW YORK

Government Engine Business  
Box 109600, West Palm Beach, Florida 33410-9600  
Phone (407) 796-2000

IN FULL SETTLEMENT OF ITEMS  
LISTED ON ACCOMPANYING STATEMENT

PAY: TWO HUNDRED AND NO/100 DOLLARS \*\*\*\*\*

DATE

03/02/89

\$\*\*\*\*\*200.00

TO  
THE  
ORDER  
OF

FLORIDA DEPT. OF  
ENVIRONMENTAL REGULATION

AUTHORIZED SIGNATURE

AUTHORIZED COUNTER SIGNATURE



bcc: E. Allen - w/attachment  
J. Garrish - w/attachment  
L. Hill - w/attachment  
J. Lipsit - w/attachment  
R. Tierney - w/o attachment  
File - Air Pollution

\$ 200 pd.  
3-30-89  
Recpt. # 117604

AC 50-162374

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

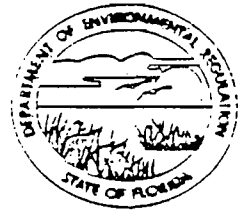
RECEIVED

BOB GRAHAM  
GOVERNOR

MAR 20 1989 VICTORIA J. TSCHINKEL  
SECRETARY

DER-BAQM

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



APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Two Heaters - Natural Gas  New<sup>1</sup>  Existing<sup>1</sup>

APPLICATION TYPE:  Construction  Operation  Modification  
UNITED TECHNOLOGIES CORPORATION

COMPANY NAME: Pratt & Whitney COUNTY: Palm Beach

Identify the specific emission point source(s) addressed in this application (i.e. Line Area-A, (2) 6 MBtu/HR  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Fuel Heaters, Gas Fired

SOURCE LOCATION: Street State Road 710 City West Palm Beach

UTM: East 562 KM North 2976 KM

Latitude 26 ° 53' 42" N Longitude 80 ° 21' 36" W

APPLICANT NAME AND TITLE: UNITED TECHNOLOGIES CORPORATION, Pratt & Whitney

APPLICANT ADDRESS: P.O. Box 109600, West Palm Beach, FL 33410-9600

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

UNITED TECHNOLOGIES  
CORPORATION

I am the undersigned owner or authorized representative\* of Pratt & Whitney  
Construction

I certify that the statements made in this application for a Air Pollution  
permit are true, correct and complete to the best of my knowledge and belief. Further,  
I agree to maintain and operate the pollution control sources 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  
UNITED TECHNOLOGIES CORPORATION  
Pratt & Whitney  
Government Engine Business

Signed: J.A. Henneberger  
J.A. Henneberger, VP., Division Counsel  
Name and Title (Please Type).

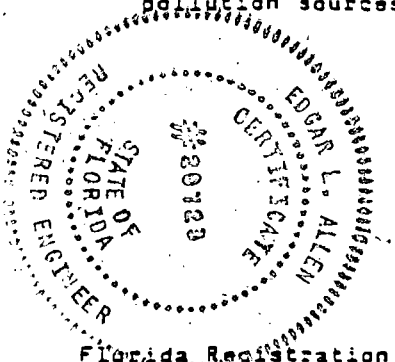
Date: 3/15/89 Telephone No. (407) 796-6850

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

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 Edgar L. Allen, III 2/27/89  
 Edgar L. Allen, III

Name (Please Type)

UNITED TECHNOLOGIES CORP. - Pratt & Whitney, GEB  
 Company Name (Please Type)

P.O. Box 109600, West Palm Beach, FL. 33410-9600  
 Mailing Address (Please Type)

MS/724-10  
 Telephone No. (407) 796-1208

Florida Registration No. 20723

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.

Two 100,000 lb/hr, 70 PSIG, 300° F package type natural gas fired heaters will be installed in Test Area "A". The burners will heat the heat transfer fluid which passes thru a heat exchanger and heats the jet fuel. Each heater max. capacity shall be 6 X 10<sup>6</sup> Btu/hr. There are no pollution control devices with this installation.

B. Schedule of project covered in this application (Construction Permit Application Only)  
 Start of Construction May 1989 Completion of Construction December 1989

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)  
None

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.  
Test Area Air Pollution Operating Permit #A050-111754 - Existing air pollution permitted sources in test area are covered under this permit.



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

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

1. Is this source in a non-attainment area for a particular pollutant? 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. No
  3. Does the State "Prevention of Significant Deterioration" (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 justifi-  
cation for any answer of "No" that might be considered questionable.

\* This is a conservative estimate based on continuous running, actual operating  
time will be less.

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

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

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

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

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

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

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulates	.03	.131	N/A	N/A	263	.131	N/A
SO <sub>2</sub>	.0036	.016	N/A	N/A	31.5	.016	N/A
Volatile Organics Methane + Nonmethane	.048	.21	N/A	N/A	421	.21	N/A
NO <sub>x</sub>	.6	2.63	N/A	N/A	5256	2.63	N/A
CO	.12	5.26	N/A	N/A	1051	.526	N/A

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(3)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard.

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

\* There is no applicable emission standard (other than opacity) listed in chapter 17-2.600 (10) for carbonaceous fuel burning equipment for new sources with a capacity less than 30 million Btu/hr.

J. Control Devices: (See Section V, Item 4) Not Applicable

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Natural Gas for each heater	.004 MMCF/hr	.006 MMCF/hr.	:6 MMBTU/hr

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

Fuel Analysis:

Percent Sulfur: Nil Percent Ash: Nil  
 Density: .0502 lb/ft<sup>3</sup> (std. cond.) ~~XXXXXX~~ Typical Percent Nitrogen: 8.06 (By Weight)  
 Heat Capacity: 21,824 (HHV) BTU/lb 1002 BTU/ft<sup>3</sup> (std.) (HHV) ~~XXXXXX~~  
 Other Fuel Contaminants (which may cause air pollution): None

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

Annual Average N/A Maximum N/A

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: 14 ft. Stack Diameter: 2.0 ft.  
 Gas Flow Rate: 186 ACFM ~~XXXXX~~ DSCFM Gas Exit Temperature: 800 °F.  
 Water Vapor Content: 11.7 % Velocity: .99 FPS

SECTION IV: INCINERATOR INFORMATION Not Applicable

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) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

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

Type of pollution control device:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) \_\_\_\_\_

\* One stack for each unit, exacty alike.

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)]  
Not Applicable
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. (Attached calculations based on AP-42, Table 1.4-1, Supplement A, October, 1986).
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).  
(Same as above)
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.) Not Applicable.
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). Not Applicable
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. (See attached sketch entitled, "Conceptual Schematic")
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). See attached drawing entitled, "Site Location 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. See attached drawing entitled "A-Area Plan"

ER Form 17-1.202(1)

Effective November 30, 1982

Page 7 of 12

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

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

N/A

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

Yes  No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

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

Yes  No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

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

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

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

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

\*Explain method of determining

- 5. Useful Life:
- 7. Energy:
- 9. Emissions:

- 6. Operating Costs:
- 8. Maintenance Cost:

Contaminant	Rate or Concentration

10. Stack Parameters

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

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

1.

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

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>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:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- 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:<sup>1</sup>
- d. Capital Costs:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:<sup>1</sup>
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:<sup>2</sup>
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:
  - a. (1) Company:
  - (2) Mailing Address:
  - (3) City:
  - (4) State:

Explain method of determining efficiency.  
 Energy to be reported in units of electrical power - KWH design rate.



(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>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 N/A

A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ 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 <sup>2</sup>	_____ 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.

Estimated Potential Discharge  
For Each Heater

Emissions have been calculated based upon 24 hours of operation per day, 365 days per year. The boiler heat output shall be 6 MBTU/hr and the firing rate will be 6,000 cu ft/hr (based on 1,000 BTU/cu ft heating value of natural gas). All factors used in the calculations are based on the U.S. Environmental Protection Agency publication AP-42, Table 1.4-1, Supplement A, October, 1986.

Particulates:

$$5 \text{ lbs}/1000000 \text{ cu ft} \times 6000 \text{ cu ft/hr} = \underline{.03 \text{ lbs/hr}}$$

$$5 \text{ lbs}/1000000 \text{ cu ft} \times 6000 \text{ cu ft/hr} \times 24 \text{ hrs/day} \times 365 \text{ days/yr} = \underline{263 \text{ lbs/yr}}$$

$$5 \text{ lbs}/1000000 \text{ cu ft} \times 6000 \text{ cu ft/hr} \times 24 \text{ hrs/day} \times 365 \text{ days/yr} \times 1 \text{ ton}/20000 \text{ lbs} = \underline{0.131 \text{ tons/yr}}$$

SO :

$$0.6 / 1000000 \times 6000 = \underline{.0036 \text{ lbs/hr}}$$

$$0.6 / 1000000 \times 6000 \times 24 \times 365 = \underline{31.5 \text{ lbs/yr}}$$

$$0.6 / 1000000 \times 6000 \times 24 \times 365 / 2000 = \underline{0.016 \text{ tons/yr}}$$

Volatile Organics: (non-methane)

$$5.3 / 1000000 \times 6000 = \underline{.032 \text{ lbs/hr}}$$

$$5.3 / 1000000 \times 6000 \times 24 \times 365 = \underline{279 \text{ lbs/yr}}$$

$$5.3 / 1000000 \times 6000 \times 24 \times 365 / 2000 = \underline{0.139 \text{ tons/yr}}$$

Volatile Organics: (methane)

$$2.7 / 1000000 \times 6000 = \underline{.016 \text{ lbs/hr}}$$

$$2.7 / 1000000 \times 6000 \times 24 \times 365 = \underline{142 \text{ lbs/yr}}$$

$$2.7 / 1000000 \times 6000 \times 24 \times 365 / 2000 = \underline{.071 \text{ tons/yr}}$$

NO :

$$100 / 1000000 \times 6000 = \underline{0.6 \text{ lbs/hr}}$$

$$100 / 1000000 \times 6000 \times 24 \times 365 = \underline{5256 \text{ lbs/yr}}$$

$$100 / 1000000 \times 6000 \times 24 \times 365 / 2000 = \underline{2.63 \text{ tons/yr}}$$

CO:

$$20 / 1000000 \times 6000 = \underline{0.12 \text{ lbs/hr}}$$

$$20 / 1000000 \times 6000 \times 24 \times 365 = \underline{1051 \text{ lbs/yr}}$$

$$20 / 1000000 \times 6000 \times 24 \times 365 / 2000 = \underline{.526 \text{ tons/yr}}$$

--- INSTRUMENTATION  
--- BY VENDOR  
--- BY P&W

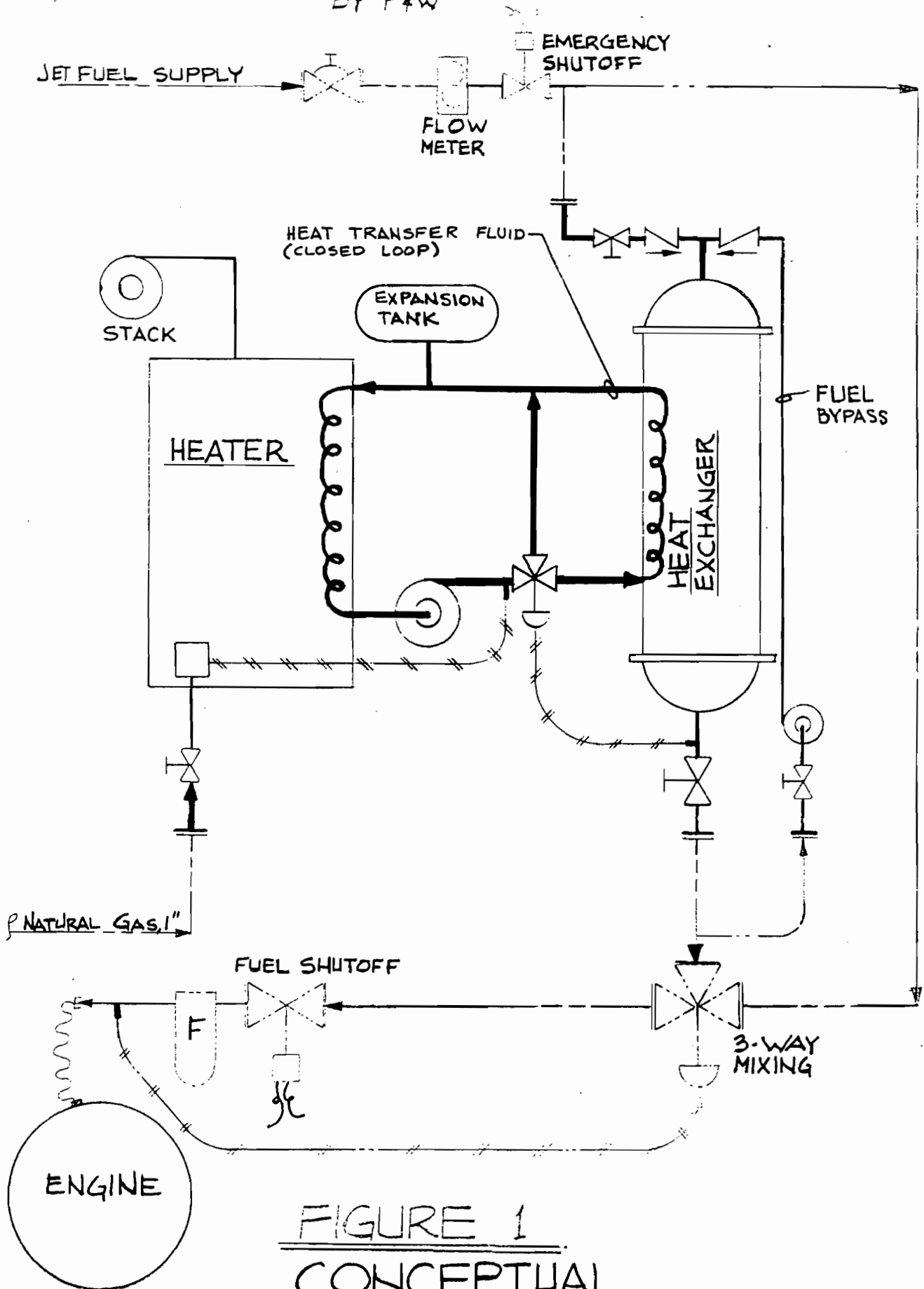
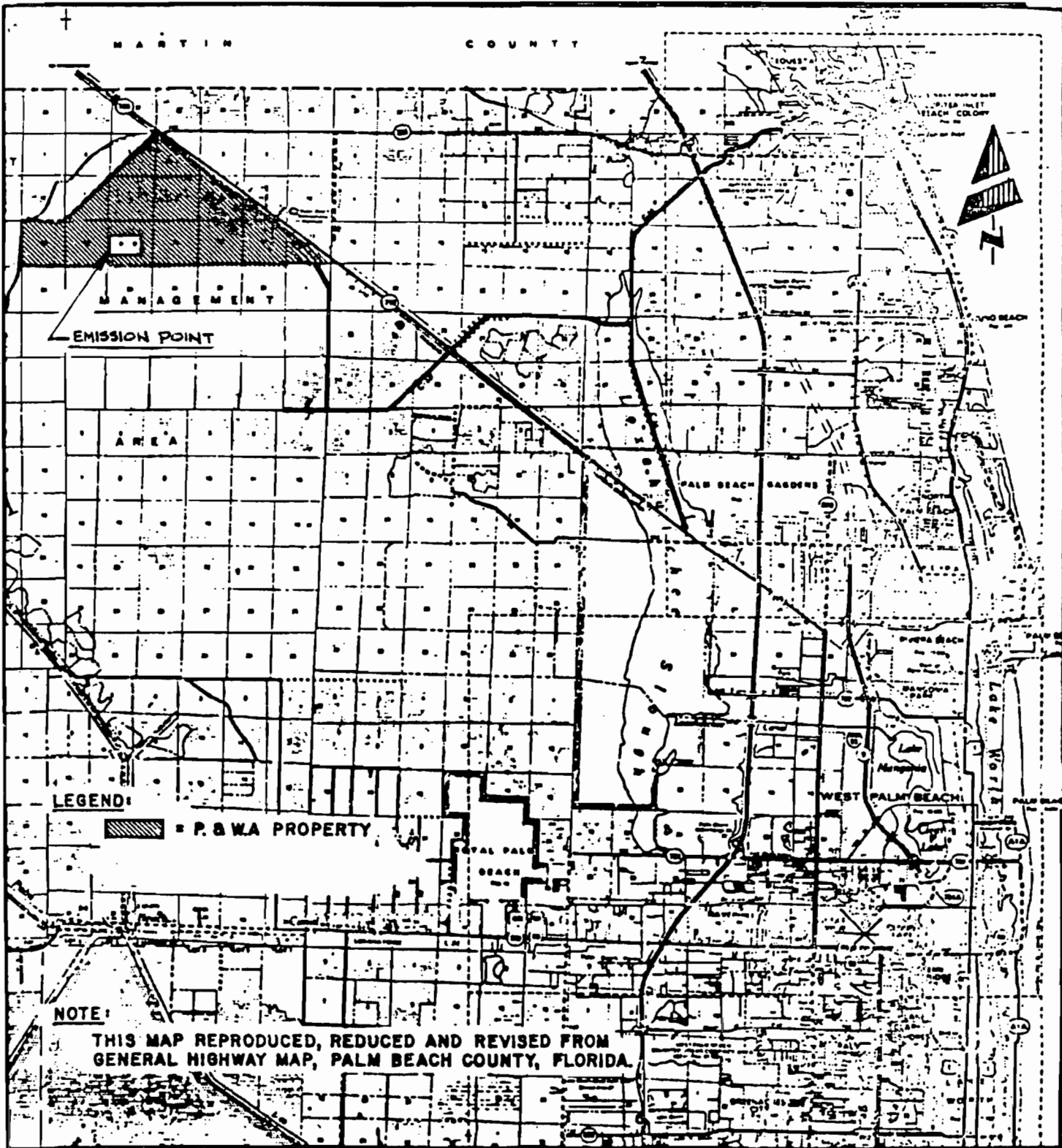


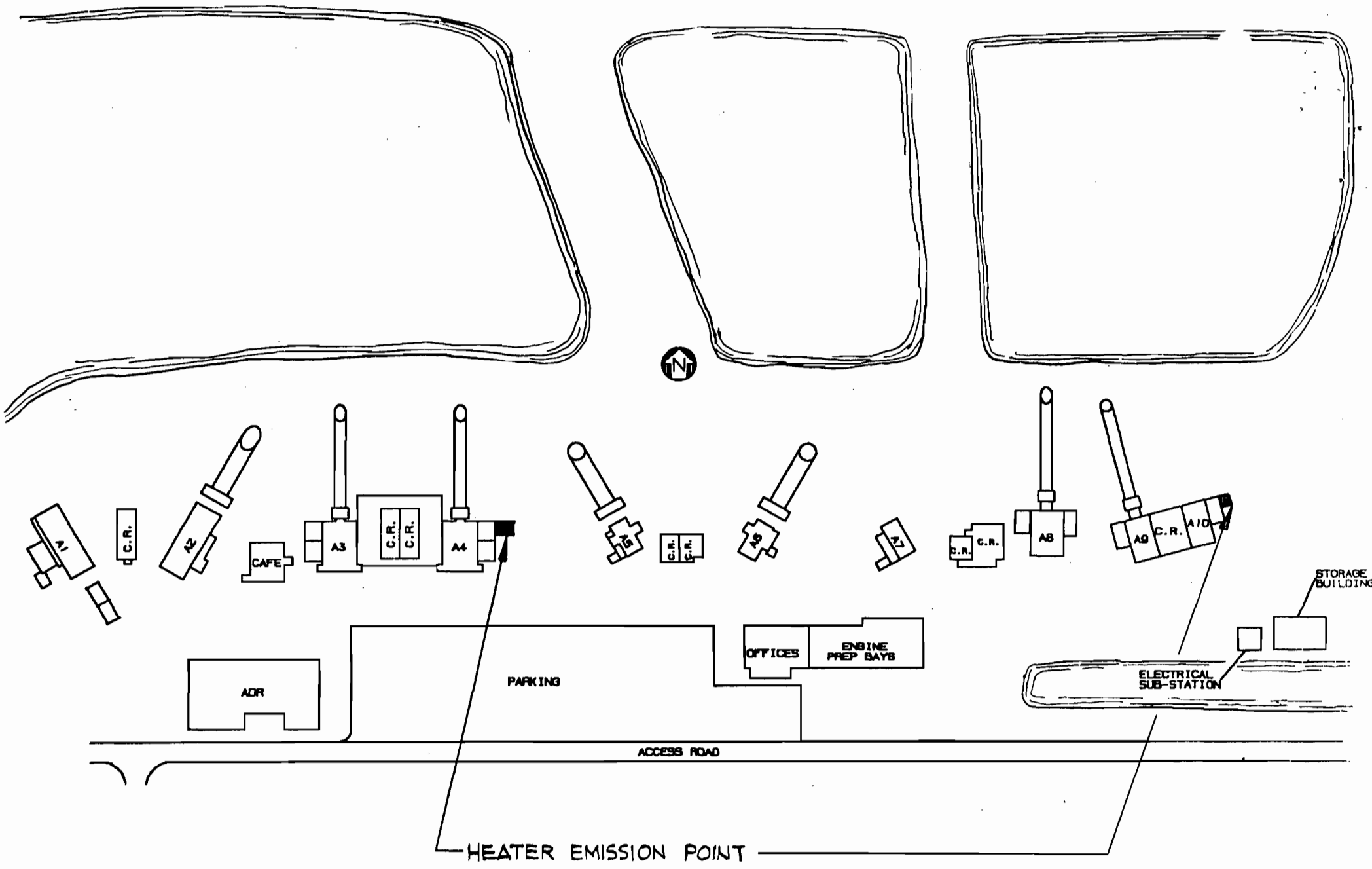
FIGURE 1  
CONCEPTUAL  
SCHEMATIC



PL-772 A

**SITE LOCATION MAP  
FOR PRATT & WHITNEY AIRCRAFT PROPERTY  
PALM BEACH COUNTY, FLORIDA**





A-AREA PLAN