



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

June 4, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. C. T. Chapman
Administrative Services Director
Florida State Hospital
Highway 90 East
Chattahoochee, Florida 32324

Dear Mr. Chapman:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for the permitting of the existing diesel engine-generator located at the permittee's existing facility in Chattahoochee, Gadsden County, Florida.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Barry Andrews.

Sincerely,

C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/BM/plm

Attachments

c: E. Middleswart, NW District
J. Neubauer, NW District Branch
F. W. Dougherty, P.E., LRW, Inc.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permit by:

Florida State Hospital
Highway 90 East
Chattahoochee, Florida 32324

DER File No. AC 20-170557

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, Florida State Hospital, applied on September 26, 1989, to the Department of Environmental Regulation for a permit for the permitting of the existing diesel engine-generator. The proposed project will occur at the applicant's existing facility located in Chattahoochee, Gadsden 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;

(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.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such

person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

Copies furnished to:

E. Middleswart, NW District
J. Neubauer, NW District Branch
F. W. Dougherty, P.E., LRW, Inc.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 6-7-90.

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.

Kevin J. J. J.
Clerk

6-7-90
Date

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 Florida State Hospital, Hwy 90 East, Chattahoochee, Florida 32324, for the permitting of the existing diesel engine-generator located at the permittee's existing facility in Chattahoochee, Gadsden County, 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:

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Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

The application is available for public inspection during 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 Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Department of Environmental Regulation
Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

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

Technical Evaluation
and
Preliminary Determination

Florida State Hospital
Gadsden County
Chattahoochee, Florida

Construction Permit Number
AC 20-170557

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

June 4, 1990

I. Application

A. Applicant

Florida State Hospital
Highway 90 East
Chattahoochee, Florida 32324

B. Project

The applicant applied for a construction permit for an existing 3500 HP, 16 cylinder fuel injection ALCO diesel engine driving a 2500 KVA (2000 KW) General Electric generator. The source was constructed/installed in 1970. Therefore, this is an after-the-fact permitting action.

The UTM coordinates are Zone 17, 707.4 km East and 3398.5 km North.

C. Process and Controls

The diesel engine-generator combination is used on a stand-by basis. The diesel engine burns No. 2 fuel oil at a maximum heat input rate of 29×10^6 Btu per hour. The maximum sulfur content is 0.4%, by weight. The applicant applied for an operating schedule of 8 hrs/day, 7 days/wk, 52 wks/yr, for a total of 2912 hrs/yr.

Pollution control systems consist of engine trim controls, which are integral with the engine. Also, the engine is monitored by pyrometers in the exhaust, visible emissions, and manifold pressure.

D. Source Industrial Classification Codes (SIC)

Florida State Hospital is classified as follows:

- 8063 Psychiatric Hospital
- 9223 Correctional Institution

E. Source Classification Codes (SCC)

The diesel engine-generator combination is classified as follows:

Internal Combustion-Commercial/Institutional: Distillate Oil (Diesel)

- 2-03-001-01 Reciprocating 10^3 gals burned

II. Rule Applicability

The project is subject to review in accordance with Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4.

The application package was deemed complete on March 30, 1990.

The existing facility is located in an area designated attainment pursuant to F.A.C. Rule 17-2.420.

Since the project is for a nonprofit health facility, the emissions are exempt from PSD (Prevention of Significant Deterioration) requirements of BACT and air quality analysis. Because the source is deemed existing (after-the-fact) with no modification involved, then the emissions will be reviewed in accordance with F.A.C. Rule 17-2.520, Sources Not Subject to PSD or Nonattainment Review Requirements.

Therefore, the source shall be subject to the emission limiting standards pursuant to F.A.C. Rules 17-2.610(2): General Visible Emissions Standard; 17-2.700: Stationary Point Source Emissions Test Procedures; 17-2.250: Excess Emissions; and 17-4.130: Plant Operation-Problems.

III. Summary of Emissions

A. Emission Limitations

The source is subject to a visible emissions standard contained in F.A.C. Rule 17-2.610(2):

<u>Source</u>	<u>Emission Limiting Standard</u>
Diesel engine-generator	less than 20% opacity (not \geq 20% opacity)

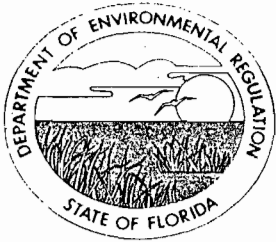
B. Ambient Air Quality Analysis

Based on a review of the proposed project, an air quality analysis was not required.

IV. Conclusion

Based on the information provided by Florida State Hospital, the Department has reasonable assurance that the existing diesel engine-generator combination, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

Barry D. Anderson
36024
6-7-90



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:
Florida State Hospital
DHRS
Highway 90 East
Chattahoochee, FL 32324

Permit Number: AC 20-170557
Expiration Date: December 31, 1990
County: Gadsden
Latitude/Longitude: 30°42'16"N
84°50'10"W
Project: Diesel Engine-Generator
Combination

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 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:

The purpose of this project is to permit an existing (after-the-fact) diesel engine-generator combination. The source is a 3500 HP, 16 cylinder fuel injection ALCO diesel engine driving a 2500 KVA (2000 KW) General Electric generator. The source was constructed/installed in 1970. The source is fired at a maximum of 200 gals/hr with No. 2 diesel oil having a maximum sulfur content of 0.4%, by weight. The exhaust drives a Turbo Supercharger before discharging into the air. There is no special pollution control equipment installed except for the engine trim controls, which are integral with the engine. The engine's condition is monitored by pyrometers and manifold pressure. The UTM coordinates are Zone 17, 707.4 km East and 3398.5 km North.

The source shall be constructed 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 Construct an Air Pollution Source, DER Form 17-1.122(1) received by the NW District on September 26, 1989.
2. Mr. C. H. Fancy's letter dated October 19, 1989.
3. Mr. T. A. Parker's letter with attachments received March 30, 1990.
4. Technical Evaluation and Preliminary Determination dated June 4, 1990.

PERMITTEE:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: December 31, 1990

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: December 31, 1990

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: December 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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: December 31, 1990

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained 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 dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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 corrected promptly.

SPECIFIC CONDITIONS:

1. The permitted hours of operation are 8 hrs/day, 7 days/wk, and 52 wks/yr (i.e., 2912 hrs/yr).
2. The visible emissions (VE) standard is less than 20% opacity (not \geq 20% opacity) pursuant to F.A.C. Rule 17-2.610(2).
3. Compliance for VE shall be demonstrated using EPA Method 9 in accordance with F.A.C. Rule 17-2.700.
4. The source is subject to F.A.C. Rules 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation-Problems.
5. The source is subject to all applicable sections of F.A.C. Chapters 17-2 and 17-4.

PERMITTEE:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: December 31, 1990

SPECIFIC CONDITIONS:

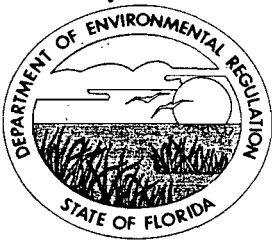
6. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

7. An application for an operation permit must be submitted to the Northwest 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 _____, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT

Mr. C. T. Chapman, Administrative Services Director
Florida State Hospital
Highway 90 East
Chattahoochee, Florida 32324


February 22, 1991

Enclosed is construction permit AC 20-170557 for the existing diesel engine-generator at the Florida State Hospital in Chattahoochee, Gadsden 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.
Chief
Bureau of Air Regulation

Copy furnished to:

E. Middleswart, NWD
J. Neubauer, NWD Branch
F. W. Dougherty, P.E., LRW, Inc.

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 2-22-91.

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

Patricia Manning
Clerk

2-22-91
Date

Final Determination

Florida State Hospital
Gadsden County
Chattahoochee, Florida

Construction Permit Number
AC 20-170557

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

February 18, 1991

Final Determination

The Technical Evaluation and Preliminary Determination for the after-the-fact permitting of the existing diesel engine-generator combination at Florida State Hospital, which is located in Chattahoochee, Gadsden County, Florida, was distributed on June 4, 1990. The Notice of Intent to Issue was published in the Tallahassee Democrat on January 12, 1991. Copies of the evaluation were available for public inspection at the Department's Northwest District office and Bureau of Air Regulation office.

No comments were submitted on the Department's Intent to Issue the permit. However, the expiration date has been extended from December 31, 1990, to July 31, 1991. Therefore, the final action of the Department will be to issue construction permit AC 20-170557 as proposed in the Technical Evaluation and Preliminary Determination and with the expiration date changed.

1-31-91
C.A. Makover, Inc.

Tallahassee Democrat

PUBLISHED DAILY

TALLAHASSEE - LEON - FLORIDA

STATE OF FLORIDA
COUNTY OF LEON:

Before the undersigned authority personally appeared Carrie Coons who on oath says that she is Legal Advertising Representative of the Tallahassee Democrat, a daily newspaper published at Tallahassee in Leon County, Florida; that the attached copy of advertising being a Legal Ad in the matter of

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF INTENT TO ISSUE

in the Court, was published in said newspaper in the issues of:

JANUARY 12, 1991

Affiant further says that the said Tallahassee Democrat is a newspaper published at Tallahassee, in the said Leon County, Florida, and that the said newspaper has heretofore been continuously published in said Leon County, Florida, each day and has been entered as second class mail matter at the post office in Tallahassee, in said Leon 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 has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this publication in the said newspaper.

Carrie Coons

Carrie Coons,
Legal Advertising Representative

Sworn To And Subscribed Before Me
This 14th

Day of January

A.D. 1991

(SEAL)

Lady Perkins
Notary Public

Notary Public, State of Florida
My Commission Expires Sept. 27, 1992
Bonded Thru Troy Fair - Insurance Inc.

Sworn to and subscribed before me
this 31st day of January, 1991.

Beverly J. Mabardy
Notary Signature

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 Florida State Hospital, Hwy. 90 East, Chattahoochee, Florida 32324, for the permitting of the existing diesel engine-generator located at the permittee's existing facility in Chattahoochee, Gadsden County, 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.

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The application is available for public inspection during 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 Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Department of Environmental Regulation
Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

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

JANUARY 12, 1991

AD NO. 1A640050

Notary Public, State of Florida
My Commission Expires Aug. 28, 1993
Bonded Thru Florida Title Agency

375

Florida Department of Environmental Regulation

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

Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:
Florida State Hospital
DHRS
Highway 90 East
Chattahoochee, FL 32324

Permit Number: AC 20-170557
Expiration Date: July 31, 1991
County: Gadsden
Latitude/Longitude: 30°42'16"N
84°50'10"W
Project: Diesel Engine-Generator
Combination

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 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:

The purpose of this project is to permit an existing (after-the-fact) diesel engine-generator combination. The source is a 3500 HP, 16 cylinder fuel injection ALCO diesel engine driving a 2500 KVA (2000 KW) General Electric generator. The source was constructed/installed in 1970. The source is fired at a maximum of 200 gals/hr with No. 2 diesel oil having a maximum sulfur content of 0.4%, by weight. The exhaust drives a Turbo Supercharger before discharging into the air. There is no special pollution control equipment installed except for the engine trim controls, which are integral with the engine. The engine's condition is monitored by pyrometers and manifold pressure. The UTM coordinates are Zone 17, 707.4 km East and 3398.5 km North.

The source shall be constructed 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 Construct an Air Pollution Source, DER Form 17-1.122(1) received by the NW District on September 26, 1989.
2. Mr. C. H. Fancy's letter dated October 19, 1989.
3. Mr. T. A. Parker's letter with attachments received March 30, 1990.
4. Technical Evaluation and Preliminary Determination dated June 4, 1990.

PERMITTEE:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: July 31, 1991

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: July 31, 1991

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: July 31, 1991

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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and

PERMITTEE:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: July 31, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained 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 dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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 corrected promptly.

SPECIFIC CONDITIONS:

1. The permitted hours of operation are 8 hrs/day, 7 days/wk, and 52 wks/yr (i.e., 2912 hrs/yr).
2. The visible emissions (VE) standard is less than 20% opacity pursuant to F.A.C. Rule 17-2.610(2).
3. Compliance for VE shall be demonstrated using EPA Method 9 in accordance with F.A.C. Rule 17-2.700.
4. The source is subject to F.A.C. Rules 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation-Problems.
5. The source is subject to all applicable sections of F.A.C. Chapters 17-2 and 17-4.

PERMITTEE:
Florida State Hospital

Permit Number: AC 20-170557
Expiration Date: July 31, 1991

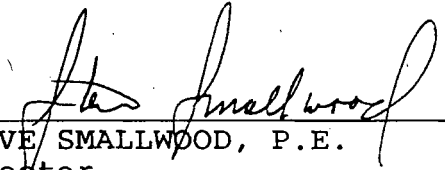
SPECIFIC CONDITIONS:

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

7. An application for an operation permit must be submitted to the Northwest 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. Rules 17-4.055 and 17-4.220).

Issued this 21st day
of February, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



RECEIVED

SEP 26 1989

Northwest Florida

DER

4020-170557

NORTHWEST DISTRICT
160 GOVERNMENTAL CENTER
PENSACOLA, FLORIDA 32501

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEI
SECRETARY
ROBERT V. KRIEGLER
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Stationary Large Bore Diesel New¹ Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: Florida State Hospital at Chattahoochee COUNTY: Gadsden

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) Diesel Generator

SOURCE LOCATION: Street U.S. 90 East City Chattahoochee

UTM: East _____ North _____

Latitude 30 ° 42 ' 16 "N Longitude 84 ° 50 ' 10 "W

APPLICANT NAME AND TITLE: C. T. Chapman, Administrative Svcs. Director

APPLICANT ADDRESS: Florida State Hospital, Highway 90 East, Chattahoochee, Florida

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Florida State Hospital

I certify that the statements made in this application for an 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 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: C. T. Chapman

C. T. Chapman, Asst. Hosp. Administrator
Name and Title (Please Type)

Date: 7/25/89 Telephone No. 904-663-4311

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 Fred W. Dougherty
Fred W. Dougherty, P.E.
Name (Please Type)

Liebtag, Robinson & Wingfield, Inc.
Company Name (Please Type)

2571 Executive Center Circle E., #102, Tallahassee, FL
Mailing Address (Please Type) 32301

Florida Registration No. 15124 Date: 7/21/89 Telephone No. 904-877-7409

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.

3500 HP, 16 cylinder fuel injection ALCO diesel engine driving 2500 KVA G.E.
generator. Exhaust drives Turbo Supercharger before discharge to atmosphere.
There is no special pollution control equipment installed. However, engine
condition is monitored by pyrometers in the exhaust, by visual emissions, and by
manifold pressure.

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

Start of Construction _____ Completion of Construction 1970

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.)

Pollution control systems consist of engine trim controls, which are
integral with engine.

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

None

E. Requested permitted equipment operating time: hrs/day 8 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr 2912; 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? no
 - 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. 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.

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		
#2 Fuel Oil	S	0.4	1320	#2 Fuel Oil

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

- Total Process Input Rate (lbs/hr): N/A
- Product Weight (lbs/hr): N/A

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

From AP42 Table 3.4-1

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential Emission ⁴		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	10	15	610 (2)	20% Opac.	*		EXH.
NO _x	100	146	no rule	N/A			EXH.
CO	26	38	no rule	N/A			EXH.
SO ₂	12	17	no rule	N/A			EXH.
VOC	28	4	no rule	N/A			EXH.

¹See Section V, Item 2. * READ DATED 6/2/89 IS ATTACHED

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

³Calculated from operating rate and applicable standard.

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

D. Control Devices: (See Section V, Item 4) None

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)
	avq/hr	max./hr	
#2 Fuel Oil	200	200	29

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

Fuel Analysis:

Percent Sulfur: .4 Percent Ash: 0.75

Density: 6.6 lbs/gal Typical Percent Nitrogen:

Heat Capacity: 22,000 BTU/lb 145,000 BTU/gal

Other Fuel Contaminants (which may cause air pollution): None

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

Annual Average 0 Maximum 0

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: 1.5 ft.
 Gas Flow Rate: 6400 ACFM 3850 DSCFM Gas Exit Temperature: 400 * °F.
 Water Vapor Content: 10 % Velocity: 71 FPS

* Estimated at turbine discharge

SECTION IV: INCINERATOR INFORMATION N/A

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

Description of Waste _____

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

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

Manufacturer _____

Date Constructed _____ Model No. _____

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

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

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

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

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

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

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

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

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

Yes No

Contaminant	Rate or Concentration

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

Yes No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

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

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

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

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

1.

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

2.

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

¹Explain method of determining efficiency.

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

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

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

4.

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

F. Describe the control technology selected:

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

¹Explain method of determining efficiency.

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

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

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

Other data recorded _____

Attach all data or statistical summaries to this application.

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

2. Instrumentation, Field and Laboratory

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

B. Meteorological Data Used for Air Quality Modeling

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

C. Computer Models Used

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

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

D. Applicants Maximum Allowable Emission Data

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

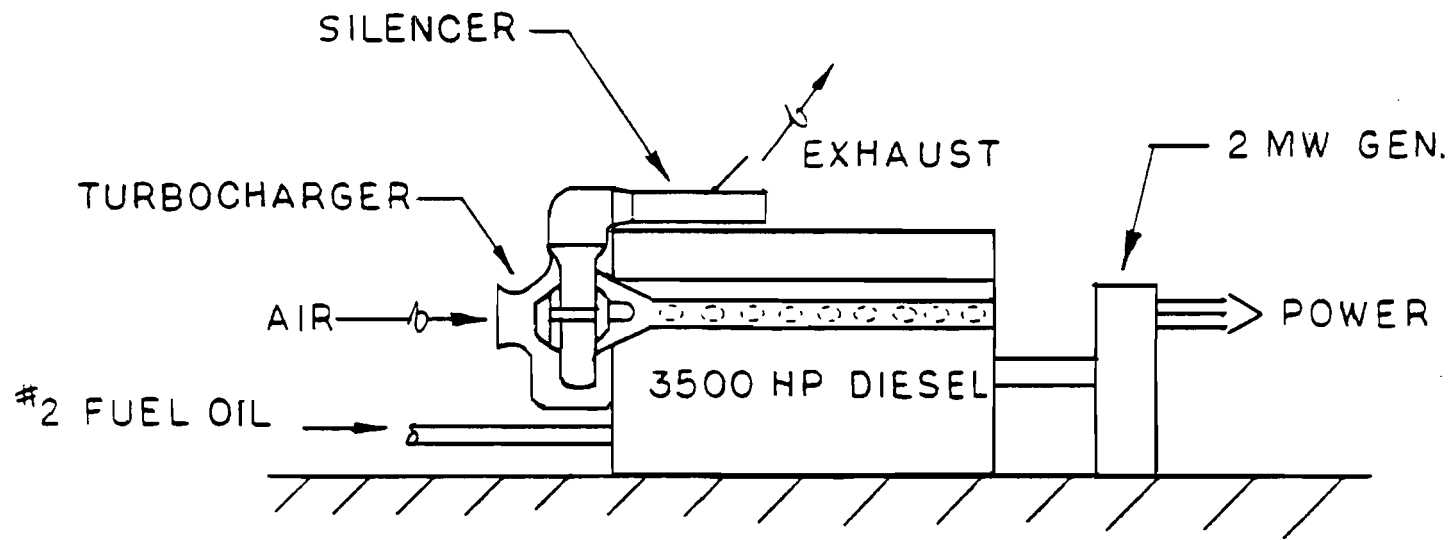
E. Emission Data Used in Modeling

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

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

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

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



DIESEL ELECTRIC GENERATOR
FLOW DIAGRAM

NTS

Company FLA STATE HOSPITAL
 Source I.D. No. 1020000402
 Permit No. A020-00000
 Address HWY 90 CHATTAHOOCHEE
FLA County GADSDEN
 Phone No. (904) 663-7584
 Test Date 6/2/89

Process DIESEL ELECTRIC GENERATOR
 Fuel/Material Input #2 DIESEL OIL
 Control Device 014 & 025
 Operating Mode MANUAL
 Production Rate 2,000 KW
 Process Input Rate 175 GPH / 2.9 GPM
 Permitted Rate 2,000 KW



Plume Background Description BRICK BUILDING

Wind Direction E Wind Speed 2-3 MPH Amb Temp 90°F
 Sky Conditions CLEAR

Plume Description Color LIGHT GRAY
 Distance Visible 50 YARDS

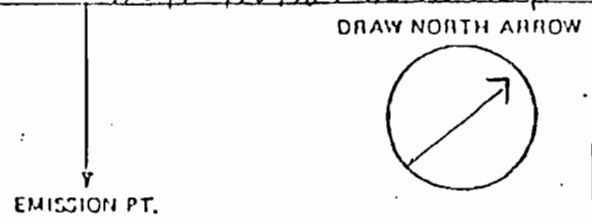
Water Vapor Present? Yes No
 If Yes, is Plume Attached Detached
 Emissions are: Continuous Intermittent Fugitive
 Comments:

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

Set Number	Opacity	
	Sum	Average
1	285	11.7
2	230	9.6
3	275	11.4
4	290	12.0
5	285	11.4
6	335	13.9
7	100	8.3
8	125	9.4
9	270	11.2
10	295	12.3

Emission Limit 20%
 Averaging Period 1 HOUR
 Average Opacity 11.2
 Highest Average Opacity 13.9
 % Readings Above Permitted 0
 Compliance Yes No

Emission Pt. Description
 Stack Diam 24"
 Hgt. of Emission Pt. 15'
 Observer to Emission Pt.:
 Direction NE
 Distance 100 FT.
 Relative Height GROUND LEVEL



How Process was Determined EPA METHOD #9

OBSERVER'S NAME: JACK L. GREENE AFFILIATION: F.S.H. EXPIRATION OF OBS. CERTIFICATION: 9/10/89

OBSERVER'S SIGNATURE: [Signature] DATE: 6/2/89 I HAVE RECEIVED A COPY OF THESE OBSERVATIONS SIGNATURE: