

Florida Department of Environmental Regulation

Southeast District

Lawton Chiles, Governor

• P.O. Box 15425 •
1900 S. Congress Ave., Suite A
Telephone: 407/433-2650
Fax: 407/433-2666

West Palm Beach, Florida 33416

Virginia B. Wetherell, Secretary

APR 21 1993

PERMITTEE:

Mr. James L. Swartz
Superintendent, Power Supply Division
City of Homestead
675 North Flagler Avenue
Homestead, Florida 33030

I.D. NUMBER: 50/DAD/13/0013/1-16
PERMIT/CERTIFICATION NUMBER: AO 13-227815*
DATE OF ISSUE: **APR 21 1993**
EXPIRATION DATE: May 1, 1998
COUNTY: Dade
LATITUDE/LONGITUDE: 25°28'24"N/80°27'53"W
UTM: Zone 17; 552.5 Km. E; 2817.6 Km. N
PROJECT: City of Homestead
Municipal Power Plant

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule 17-210 and 296, and in conformance with all existing regulations of the Florida Department of Environmental Regulation. 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:

OPERATE: An air pollution source consisting of a municipal power plant operating sixteen (16) diesel generators burning #2 fuel oil and natural gas. The units are Numbers 2, 3, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 and 21. Emissions from the generators are discharged to the atmosphere at an average height of 50 feet above ground level.

IN ACCORDANCE WITH: Applications for Renewal of Permit to Operate Air Pollution Sources received March 2, 1993 and May 10, 1988, Certificate of Completion of Construction dated March 12, 1982, letters dated November 18, 1982 and May 5, 1983 and Application for Permit to Operate/Construct Air Pollution Sources dated June 11, 1982 (none are attached).

LOCATED AT: 660 Northeast 1 Road, Homestead, Dade County, Florida.

TO SERVE: An electric power generating facility (SIC # 4911).

SUBJECT TO: General Conditions 1-14 and Specific Conditions 1-9.

*This permit is a renewal of permit no. AO 13-147940 issued August 2, 1988.

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 403.141, 403.727, or 403.859 through 403.861, F.S. 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), F.S., 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.

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 reasonable times, 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 the permit, the permittee shall immediately notify and provide the Department with the following information:

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

GENERAL CONDITIONS:

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 prescribed by Sections 403.111 and 403.73, F.S. 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 Rule 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any noncompliance 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 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 date(s) 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 the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:
Mr. James L. Swartz
City of Homestead
675 North Flagler Avenue
Homestead, Florida 33030

I.D. NUMBER: 50/DAD/13/0013/1-16
PERMIT/CERTIFICATION NUMBER: AO 13-227815
DATE OF ISSUE: APR 21 1993
EXPIRATION DATE: May 1, 1998

SPECIFIC CONDITIONS:

1. Compliance testing shall be conducted for the sources covered by this permit by May 30, 1993 and annually thereafter in accordance with the methods specified below.
2. Emission limiting standard is as follows:

In accordance with Florida Administrative Code Rule 17-296.310(2) - no discharge of pollutant with opacity equal to or greater than 20 percent.
3. The compliance test report shall include results of tests by the following method:

<u>Source/Emission Point</u>	<u>Pollutant</u>	<u>Test Method</u>
Generators	Visible Emissions	EPA Method 9

The compliance test report shall be submitted to the Department in accordance with Florida Administrative Code (F.A.C.) Rule 17-297.330(1)(b).
4. Testing of emissions should be conducted using the fuel and/or process input which are expected to result in the highest emissions and within ten percent (10%) of the rated capacity of the source, otherwise the Department may require the test to be repeated or require modification of the permit to reflect tested rates and/or fuels.
5. The Department shall be notified of expected test dates at least fifteen (15) days prior to compliance testing.
6. On or before March 1 of each calendar year, a completed DER Form 17-210.900(4), Annual Operations Report Form for Air Emissions Sources shall be submitted to the Department.
7. Copies of all reports, tests, notifications or other submittals required by this permit shall be submitted to both the Department of Environmental Regulation, Southeast District Office and Dade County Environmental Resources Management.
8. Unit Number 3 shall be operated only in the dual fuel mode.

PERMITTEE:
Mr. James L. Swartz
City of Homestead
675 North Flagler Avenue
Homestead, Florida 33030


I.D. NUMBER: 50/DAD/13/0013/1-16
PERMIT/CERTIFICATION NUMBER: AO 13-227815
DATE OF ISSUE: APR 21 1993
EXPIRATION DATE: May 1, 1998

SPECIFIC CONDITIONS:

9. The permittee shall be aware of and operate under the attached "General Permit Conditions #1 through 14". General Permit Conditions are binding upon the permittee and enforceable pursuant to Chapter 403 of the Florida Statutes.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Mary E. S. Williams
Director of District Management
F.D.E.R., Southeast District
P.O. Box 15425
West Palm Beach, FL 33416
407/433-2650

MESW:ms:gml

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed by certified mail before the close of business on APR 21 1993 to the listed persons.
Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to S.120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk | APR 21 1993
Date



Florida Department of Environmental Regulation

Southeast District • P.O. Box 15425 • West Palm Beach, Florida 33416

Lawton Chiles, Governor

1900 S. Congress Ave., Suite A

Virginia B. Wetherell, Secretary

Telephone: 407/433-2650

Fax: 407/433-2666

APR 21 1993

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

FILE

CERTIFIED MAIL

In the Matter of an Application
for Permit by:

DER File No. AO 13-227815
Dade County

Mr. James L. Swartz /
Superintendent, Power Supply Division /
City of Homestead /
675 North Flagler Avenue /
Homestead, Florida 33030 /

Enclosed is Permit Number AO 13-227815 to operate an air pollution source issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit 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 14 days of receipt of this Permit. 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 permit. 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 receipt 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.

Mr. James L. Swartz
City of Homestead
Homestead, Florida 33030
Page 2 of 2

DER Permit No. AO 13-227815

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

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

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



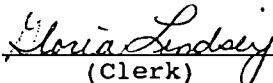
Mary E. S. Williams
Director of District Management
F.D.E.R., Southeast District
P.O. Box 15425
West Palm Beach, FL 33416
407/433-2650

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on APR 21 1993 to the listed persons.

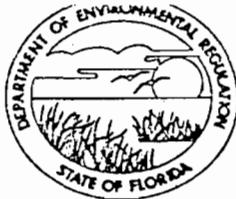
Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


(Clerk)

APR 21 1993
(Date)

Copies furnished to: Dade County Environmental Resources Management



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTH FLORIDA SUBDISTRICT APIS # 50/13/0013/21

APPLICANT: Mr. H. C. Peters
Director of Utilities
City of Homestead
790 Homestead Boulevard
Homestead, FL 33030

PERMIT/CERTIFICATION
NO. AC 13-29641

*Iss 4/21/80
Exp 12/1/81*

COUNTY: Dade
PROJECT: Homestead, City of
Power Plant Unit #21

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

To construct an air pollution source consisting of: A natural gas (dual fuel) diesel generator No. 21 rated at 6485 kw, emitting 0.59 lbs./hr. of particulates, 0.55 lbs./hr. of SO₂, 174 lbs./hr. of NO₂ and 19.1 lbs./hr. of hydrocarbons. The maximum heat input is 53.96 MMBTU/hr. and the emissions are discharged to the atmosphere at approximately 40 feet above ground level.

In accordance with: Specifications contained in Application to Construct Air Pollution Sources dated March 12, 1980 (not attached).

Located at: 660 Northeast 1 Road, Homestead, Dade County, Florida.

UTM COORDINATES: Zone 17; 552.6 KmE., 2817.6 KmN.

Serving: An electric power generating facility (SIC #4911).

Subject to General Conditions 1 through 12 and Specific Conditions 1 through 4.

PERMIT NO.: AC 13-29641 - City of Homestead
APPLICANT: Mr. H. C. Peters, Director of Utilities

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
13. This permit also constitutes:
 - Determination of Best Available Control Technology (BACT)
 - Determination of Prevention of Significant Deterioration (PSD)
 - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 13-29641 - City of Homestead
APPLICANT: Mr. H. C. Peters, Director of Utilities

SPECIFIC CONDITIONS

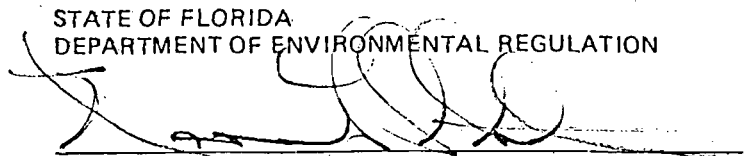
1. Application for permit to operate to be submitted at least sixty (60) days prior to the expiration date of this permit.
2. The applicant shall continue the retention of the engineer-of-record for inspection of the construction of the plant. The Form DER 17-1.122(20) Certificate of Completion of Construction, satisfactorily completed, with a \$20.00 fee, may be submitted in lieu of an application for an operation permit.
3. The operation of this plant shall be tested for visible emissions in accordance with the Code of Federal Regulations 40 CFR Part 60 Appendix A, Method 9, entitled "Visual Determination of Opacity of Emissions from Stationary Sources." Reports shall be submitted to the Department of Environmental Regulation, South Florida Subdistrict Office and to Metropolitan Dade County Environmental Resources Management no later than twenty (20) days after completion of tests. The test results are required prior to our issuance of an operation permit.
4. Testing of emissions must be accomplished at approximately the rates as stated in the permit. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data.

Expiration Date: December 1, 1981

Issued this 21st day of April, 1980

_____ Pages Attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



Signature

PAGE 3 OF 3

Warren G. Strahm
Subdistrict Manager

3301 GUN CLUB ROAD
P.O. BOX 3858
WEST PALM BEACH, FLORIDA 33402



BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

WARREN G. STRAHM
SUBDISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT

April 21, 1980

Mr. H. C. Peters
Director of Utilities
City of Homestead
790 Homestead Boulevard
Homestead, Florida, 33030

AP - Dade County
Homestead, City of

Power Plant Unit #21

Dear Mr. Peters:

Enclosed is Permit Number AC 13-29641, dated April 21, 1980,
to construct the subject pollution source, issued
pursuant to Section 403.087, Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

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

Sincerely,

Roy M. Duke, P.E.
Permitting Section Head

cc: Metro-Dade Co. Environmental
Resources Management
Tallahassee

Enclosure

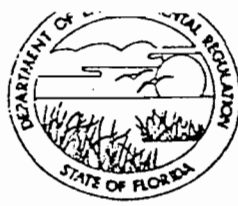
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RULES OF THE ADMINISTRATION COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

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

NOTE: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT APIS # 50/13/0013/20

APPLICANT: Mr. H. C. Peters
Director of Utilities
City of Homestead
790 Homestead Boulevard
Homestead, Florida 33030

PERMIT/CERTIFICATION
NO. AC 13-29640

COUNTY: Dade

PROJECT:
Homestead, City of
Power Plant Unit #20

Iss 4/21/80
Exp 12/1/81

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

To construct an air pollution source consisting of: A natural gas (dual fuel) diesel generator No. 20 rated at 6485 kw, emitting 0.59 lbs./hr. of particulates, 0.55 lbs./hr. of SO₂, 174 lbs./hr. of NO₂ and 19.1 lbs./hr. of hydrocarbons. The maximum heat input is 53.96 MMBTU/hr. and the emissions are discharged to the atmosphere at approximately 40 feet above ground level.

In accordance with: Specifications contained in Application to Construct Air Pollution Sources dated March 12, 1980 (not attached).

Located at: 660 Northeast 1 Road, Homestead, Dade County, Florida

UTM COORDINATES: Zone 17; 552.6 KmE., 2817.6 KmN.

Serving: An electric power generating facility (SIC #4911).

Subject to General Conditions 1 through 12 and Specific Conditions 1 through 4.

PERMIT NO.: AC 13-29640 - City of Homestead
APPLICANT: Mr. H. C. Peters, Director of Utilities

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

4. As provided in subsection 403.087(6), 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.

5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.

6. 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 Section 403.111, F.S.

7. In the case of an operation permit, 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.

8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- Determination of Best Available Control Technology (BACT)
- Determination of Prevention of Significant Deterioration (PSD)
- Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 13-29 - City of Homestead
APPLICANT Mr. H. C. Peters, Director of Utilities

SPECIFIC CONDITIONS

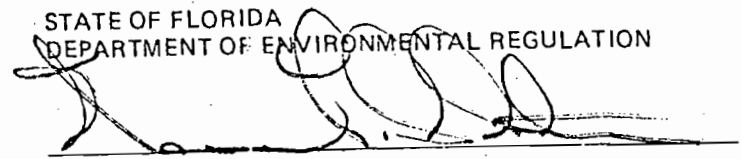
1. Application for permit to operate to be submitted at least sixty (60) days prior to the expiration date of this permit.
2. The applicant shall continue the retention of the engineer-of-record for inspection of the construction of the plant. The Form DER 17-1.122(20) Certificate of Completion of Construction satisfactorily completed, with a \$20.00 fee, may be submitted in lieu of an application for an operation permit.
3. The operation of this plant shall be tested for visible emissions in accordance with the Code of Federal Regulations 40 CFR Part 60, Appendix A, Method 9, entitled "Visual Determination of Opacity of Emissions from Stationary Sources." Reports shall be submitted to the Department of Environmental Regulation, South Florida Subdistrict Office and the Metropolitan Dade County Environmental Resources Management no later than twenty (20) days after completion of tests. The test results are required prior to our issuance of an operation permit.
4. Testing of emission must be accomplished at approximately the rates as stated in the permit. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data.

Expiration Date: December 1, 1981

Issued this 21st day of April, 1980

 Pages Attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

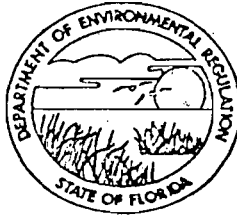


Signature

PAGE 3 OF 3

Warren G. Strahm
Subdistrict Manager

3301 GUN CLUB ROAD
P.O. BOX 3858
WEST PALM BEACH, FLORIDA 33402



BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

WARREN G. STRAHM
SUBDISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

April 21, 1980

SOUTH FLORIDA SUBDISTRICT

Mr. H. C. Peters
Director of Utilities
City of Homestead
790 Homestead Boulevard
Homestead, Florida, 33030

AP -- Dade County
Homestead, City of

Power Plant Unit #20

Dear Mr. Peters:

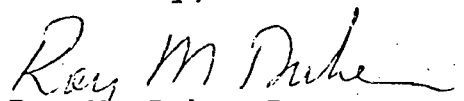
Enclosed is Permit Number AC 13-29640, dated April 21, 1980,
to construct the subject pollution source, issued
pursuant to Section 403.087, Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

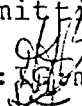
If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

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

Sincerely,


Roy M. Duke, P.E.
Permitting Section Head

cc: Metro-Dade Co. Environmental
Resources Management
Tallahassee

RMD: 
Enclosure

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

28-5.15 Requests for Formal and Informal Proceedings

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

NOTE: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.



Florida Department of Environmental Regulation

Southwest District • P.O. Box 15425 • West Palm Beach, Florida 33416

Lawton Chiles, Governor

1900 S. Congress Ave., Suite A

Virginia B. Wetherell, Secretary

Telephone: 407/433-2650

Fax: 407/433-2666

APR 21 1993

PERMITTEE:

Mr. James L. Swartz
Superintendent, Power Supply Division
City of Homestead
675 North Flagler Avenue
Homestead, Florida 33030

I.D. NUMBER: 50/DAD/13/0013/1-16

PERMIT/CERTIFICATION NUMBER: AO 13-227815*

DATE OF ISSUE: APR 21 1993

EXPIRATION DATE: May 1, 1998

COUNTY: Dade

LATITUDE/LONGITUDE: 25°28'24"N/80°27'53"W

UTM: Zone 17; 552.5 Km. E; 2817.6 Km. N

PROJECT: City of Homestead
Municipal Power Plant

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule 17-210 and 296, and in conformance with all existing regulations of the Florida Department of Environmental Regulation. 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:

OPERATE: An air pollution source consisting of a municipal power plant operating sixteen (16) diesel generators burning #2 fuel oil and natural gas. The units are Numbers 2, 3, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 and 21. Emissions from the generators are discharged to the atmosphere at an average height of 50 feet above ground level.

IN ACCORDANCE WITH: Applications for Renewal of Permit to Operate Air Pollution Sources received March 2, 1993 and May 10, 1988, Certificate of Completion of Construction dated March 12, 1982, letters dated November 18, 1982 and May 5, 1983 and Application for Permit to Operate/Construct Air Pollution Sources dated June 11, 1982 (none are attached).

LOCATED AT: 660 Northeast 1 Road, Homestead, Dade County, Florida.

TO SERVE: An electric power generating facility (SIC # 4911).

SUBJECT TO: General Conditions 1-14 and Specific Conditions 1-9.

*This permit is a renewal of permit no. AO 13-147940 issued August 2, 1988.

PERMITTEE:
 Mr. James L. Swartz
 City of Homestead
 675 North Flagler Avenue
 Homestead, Florida 33030

I.D. NUMBER: 50/DAD/13/0013/1-16
PERMIT/CERTIFICATION NUMBER: AO 13-227815
DATE OF ISSUE: APR 21 1993
EXPIRATION DATE: May 1, 1998

SPECIFIC CONDITIONS:

1. Compliance testing shall be conducted for the sources covered by this permit by May 30, 1993 and annually thereafter in accordance with the methods specified below.
2. Emission limiting standard is as follows:
 In accordance with Florida Administrative Code Rule 17-296.310(2) - no discharge of pollutant with opacity equal to or greater than 20 percent.
3. The compliance test report shall include results of tests by the following method:

<u>Source/Emission Point</u>	<u>Pollutant</u>	<u>Test Method</u>
Generators	Visible Emissions	EPA Method 9

The compliance test report shall be submitted to the Department in accordance with Florida Administrative Code (F.A.C.) Rule 17-297.330(1)(b).
4. Testing of emissions should be conducted using the fuel and/or process input which are expected to result in the highest emissions and within ten percent (10%) of the rated capacity of the source, otherwise the Department may require the test to be repeated or require modification of the permit to reflect tested rates and/or fuels.
5. The Department shall be notified of expected test dates at least fifteen (15) days prior to compliance testing.
6. On or before March 1 of each calendar year, a completed DER Form 17-210.900(4), Annual Operations Report Form for Air Emissions Sources shall be submitted to the Department.
7. Copies of all reports, tests, notifications or other submittals required by this permit shall be submitted to both the Department of Environmental Regulation, Southeast District Office and Dade County Environmental Resources Management.
8. Unit Number 3 shall be operated only in the dual fuel mode.

3301 SUN CLUB ROAD
P.O. BOX 3358
WEST PALM BEACH, FLORIDA 33402



BOB GRAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

WARREN G. STRAHM
SUBDISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA SUBDISTRICT APIS # 50/13/0013/20

APPLICANT: Mr. H. C. Peters
Director of Utilities
City of Homestead
790 Homestead Boulevard
Homestead, Florida 33030

PERMIT/CERTIFICATION
NO. AC 13-29640

COUNTY: Dade

PROJECT:

Homestead, City of

Power Plant Unit #20

Iss 4/21/80
Exp 12/1/81

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

To construct an air pollution source consisting of: A natural gas (dual fuel) diesel generator No. 20 rated at 6485 kw, emitting 0.59 lbs./hr. of particulates, 0.55 lbs./hr. of SO₂, 174 lbs./hr. of NO₂ and 19.1 lbs./hr. of hydrocarbons. The maximum heat input is 53.96 MMBTU/hr. and the emissions are discharged to the atmosphere at approximately 40 feet above ground level.

In accordance with: Specifications contained in Application to Construct Air Pollution Sources dated March 12, 1980 (not attached).

Located at: 660 Northeast 1 Road, Homestead, Dade County, Florida

UTM COORDINATES: Zone 17, 552.6 KmE., 2817.6 KmN.

Serving: An electric power generating facility (SIC #4911).

Subject to General Conditions 1 through 12 and Specific Conditions 1 through 4.

PAGE 1 OF 3

BEST AVAILABLE COPY

PERMIT NO.: AC 13-29 - City of Homestead
APPLICANT Mr. H. C. Peters, Director of Utilities

SPECIFIC CONDITIONS

1. Application for permit to operate to be submitted at least sixty (60) days prior to the expiration date of this permit.
2. The applicant shall continue the retention of the engineer-of-record for inspection of the construction of the plant. The Form DER 17-1.122(20) Certificate of Completion of Construction satisfactorily completed, with a \$20.00 fee, may be submitted in lieu of an application for an operation permit.
3. The operation of this plant shall be tested for visible emissions in accordance with the Code of Federal Regulations 40 CFR Part 60, Appendix A, Method 9, entitled "Visual Determination of Opacity of Emissions from Stationary Sources." Reports shall be submitted to the Department of Environmental Regulation, South Florida Subdistrict Office and the Metropolitan Dade County Environmental Resources Management no later than twenty (20) days after completion of tests. The test results are required prior to our issuance of an operation permit.
4. Testing of emission must be accomplished at approximately the rates as stated in the permit. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data.

Expiration Date: December 1, 1981

Issued this 21st day of April, 1980

Pages Attached: _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

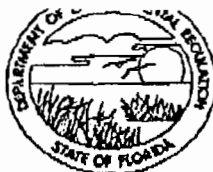


Signature

PAGE 3 OF 3

Warren G. Strahm
Subdistrict Manager

2801 GOLF CLUB ROAD
P.O. BOX 3658
WEST PALM BEACH, FLORIDA 33402



BUB UHAHAM
GOVERNOR

JACOB D. VARN
SECRETARY

WARREN G. STRAHM
SUBDISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APIS # 50/13/0013/21

SOUTH FLORIDA SUBDISTRICT

APPLICANT: Mr. H. C. Peters
Director of Utilities
City of Homestead
790 Homestead Boulevard
Homestead, FL 33030

*Iss 4/21/80
Exp 12/1/81*

PERMIT/CERTIFICATION
NO. AC 13-29641

COUNTY: Dade

PROJECT: Homestead, City of

Power Plant Unit #21

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

To construct an air pollution source consisting of: A natural gas (dual fuel) diesel generator No. 21 rated at 6485 kw, emitting 0.59 lbs./hr. of particulates, 0.55 lbs./hr. of SO₂, 174 lbs./hr. of NO₂ and 19.1 lbs./hr. of hydrocarbons. The maximum heat input is 53.96 MMBTU/hr. and the emissions are discharged to the atmosphere at approximately 40 feet above ground level.

In accordance with: Specifications contained in Application to Construct Air Pollution Sources dated March 12, 1980 (not attached).

Located at: 660 Northeast 1 Road, Homestead, Dade County, Florida.

UTM COORDINATES: Zone 17; 552.6 KmE., 2817.6 KmN.

Serving: An electric power generating facility (SIC #4911).

Subject to General Conditions 1 through 12 and Specific Conditions 1 through 4.

PERMIT NO.: AC 13-29641 - City of Homestead
 APPLICANT: Mr. H. C. Peters, Director of Utilities

SPECIFIC CONDITIONS

1. Application for permit to operate to be submitted at least sixty (60) days prior to the expiration date of this permit.
2. The applicant shall continue the retention of the engineer-of-record for inspection of the construction of the plant. The Form DER 17-1.122(20) Certificate of Completion of Construction, satisfactorily completed, with a \$20.00 fee, may be submitted in lieu of an application for an operation permit.
3. The operation of this plant shall be tested for visible emissions in accordance with the Code of Federal Regulations 40 CFR Part 60 Appendix A, Method 9, entitled "Visual Determination of Opacity of Emissions from Stationary Sources." Reports shall be submitted to the Department of Environmental Regulation, South Florida Subdistrict Office and to Metropolitan Dade County Environmental Resources Management no later than twenty (20) days after completion of tests. The test results are required prior to our issuance of an operation permit.
4. Testing of emissions must be accomplished at approximately the rates as stated in the permit. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data.

Expiration Date: December 1, 1981

Issued this 21st day of April, 1980

 Pages Attached.

STATE OF FLORIDA
 DEPARTMENT OF ENVIRONMENTAL REGULATION

Signature

Warren G. Strahm
 Subdistrict Manager

PAGE 3 OF 3



**Acid Rain Program
U.S. Environmental Protection Agency**

Fax Cover Sheet

To: Tom Cascio

From: Janice Wagner

Phone:

Phone: 202 564 9118

Fax: 850 922 6979

Fax:

Date:

Pages (incl. cover sheet): 2

I couldn't get to the library - this is what we sent to the Federal Register.

The EPA is taking steps to ensure that no disruptions in service or environmental protection occur when our data systems encounter the year 2000. Contact us with questions about how you too can prepare your Acid Rain Program technologies for Year 2000 Compliance.

For more information about the Acid Rain Program, visit our web site at www.epa.gov/acidrain, or call the Hotline at (202) 564-9620.

Table 2 - Phase II Allowance Allocations								
State	Plant Name	Boiler1	Allowances for Years 2000-2009				Years 2010 and Beyond	
			(A) Auction Reserve Deduction	(B) Repower- ing Deduction	(C)2 Total Annual Phase II	(D) 1993-1998 Auction Deduction	(E) Auction Reserve Deduction	(F)3 Total Annual Phase II
FL	G E Turner	4	18	0	611	18	18	611
FL	Henry D King	7	2	0	63	2	2	65
FL	Henry D King	8	0	0	28	0	1	34
FL	Higgins	1	12	0	423	12	12	423
FL	Higgins	2	14	0	475	14	14	475
FL	Higgins	3	13	0	969	13	13	434
FL	Hookers Point	HB01	4	0	177	4	4	177
FL	Hookers Point	HB02	5	0	207	5	5	205
FL	Hookers Point	HB03	13	0	469	13	13	468
FL	Hookers Point	HB04	20	0	701	20	20	702
FL	Hookers Point	HB05	36	0	1253	36	36	1252
FL	Hookers Point	HB06	14	0	478	14	14	478
FL	Indian River	**C	0	0	0	0	0	0
FL	Indian River	**D	19	0	639	18	18	640
FL	Indian River	1	35	0	1192	34	34	1194
FL	Indian River	2	48	0	1569	45	45	1572
FL	Indian River	3	106	1	3646	105	106	3652
FL	Intercession City	**10	20	0	705	20	20	706
FL	Intercession City	**7	20	0	705	20	20	708
FL	Intercession City	**8	20	0	705	20	20	706
FL	Intercession City	**9	20	0	705	20	20	706
FL	J D Kennedy	10	57	1	1975	57	57	1980
FL	J D Kennedy	8	6	0	196	6	6	196
FL	J D Kennedy	9	16	0	553	16	16	553
FL	J R Kelly	JRK8	1	0	58	1	2	67
FL	Lansing Smith	1	188	2	6476	187	188	6489
FL	Lansing Smith	2	221	2	7601	220	220	7616
FL	Larsen Memorial	**8	19	0	665	19	19	666
FL	Larsen Memorial	**9	0	0	0	0	0	0
FL	Larsen Memorial	7	9	0	307	9	9	308
FL	Lauderdale	4GT1	28	0	948	27	27	950
FL	Lauderdale	4GT2	28	0	948	27	27	950
FL	Lauderdale	5GT1	28	0	948	27	27	950
FL	Lauderdale	5GT2	28	0	948	27	27	950
FL	Manatee	PMT1	400	4	13773	398	399	13799
FL	Manatee	PMT2	368	4	12697	367	368	12716
FL	Martin	HRSG3A	37	0	1275	37	37	1277
FL	Martin	HRSG3B	37	0	1275	37	37	1277
FL	Martin	HRSG4A	37	0	1275	37	37	1277
FL	Martin	HRSG4B	37	0	1275	37	37	1277
FL	Martin	PMR1	148	2	5092	147	147	5102
FL	Martin	PMR2	175	2	6039	175	175	6049
FL	NA 1 - 7238	**1	0	0	0	0	0	0
FL	Northside	1	142	2	6222	141	142	4897
FL	Northside	2	30	0	6288	30	30	1048



Florida
Department of
Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia Wetherell
Secretary

F A X T R A N S M I T T A L S H E E T

DATE: 10/8/98
TO: James Swardz - Utilities Dept-
PHONE: _____ FAX: (305) 247-4008
FROM: Barbara Bowdwell PHONE: (850) 921-9524
Division of Air Resources Management FAX: 850.922.6979
RE: City of Homestead Public Notice for Gordon W -
CC: _____ Ivey Municipal Power Plant
Total number of pages including cover sheet: 3

Message

Please have the attached Public Notice published in newspaper no later than October 14, 1998. Please call me or Bruce Mitchell at (850) 921-9506 if you have questions or need further assistance.

If there are any problems with this fax transmittal, please call the above phone number.

"Protect, Conserve, and Manage Florida's Environmental and Natural Resources"

Printed on recycled paper

BEST AVAILABLE COPY

PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

DEPARTMENT OF ENVIRONMENTAL PROTECTION

THE DRAFT PERMIT NO. 83038-01-01

City of Homestead

Gordon W. Levy Municipal Power Plant

Dade County

The Department of Environmental Protection (the Department) gives notice of its intent to issue a Title V air operation permit to the City of Homestead for the Gordon W. Levy Municipal Power Plant located at 111 South Magnolia Drive, Suite 4, Homestead, Florida 33031. The applicant's name and address are: Homestead City Administration, 111 South Magnolia Drive, Suite 4, Homestead, Florida 33031.

The permit application will be reviewed for a PROPOSED Permit, and subsequent Title V FINAL Permit, in accordance with the provisions of the Clean Air Act and the permit unless a response received in accordance with the following procedures results in a permit decision or significant change of terms or conditions.

The permitting authority will accept written comments concerning the proposed Title V DRAFT Permit issuance action for a period of 30 (thirty) days from the date of publication of this Notice. Written comments should be provided to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station 45505, Tallahassee, Florida 32399-2409. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this DRAFT Permit, the permitting authority shall issue a Revised DRAFT Permit and require, if applicable, another Public Notice.

A person whose substantial interest are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 of the Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station 833, Tallahassee, Florida 32399-3000. (Telephone: 850/488-9730; Fax: 850/487-4938). Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within fourteen days of publication of the public notice or with fourteen days of receipt of the notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the permitting authority for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A Petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the applicable time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the permitting authority's action is based must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address and telephone number of the petitioner, name address and telephone number of the petitioner's representative, if any, which shall be the address for service purpose during the course of the proceeding; and an explanation of how petitioner's substantial rights will be affected by the agency determination;
- (c) A statement of when and where the petitioner received notice of the agency action or proposed action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so state;
- (e) A statement of the relief sought, as well as the rules and statutes which entitle the petitioner to relief;
- (f) A demand for relief.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition signifies that the permitting authority's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available for this proceeding.

In addition to the above, pursuant to 42 United States (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 (sixty) days of expiration of the Administrator's 45 (forty-five) day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to issuance of any permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30 (thirty) day public comment period provided in this notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period. Written objections for such objections must be filed with the Administrator of the EPA and must comply with the provisions of Chapter 61-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 301 M Street SW, Washington, DC 20460.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays.

Permitting Authority: Department of Environmental Protection Bureau of Air Regulation 111 South Magnolia Drive, Suite 4 Tallahassee, Florida 32301 Telephone: 850/488-1344 Fax: 850/922-6977	Dade County Department of Environmental Resource Management Air Quality Management Division 33 Southwest Second Avenue Suite 600 Miami, Florida 33130-1840 Telephone: 305/372-6925 Fax: 305/372-6954
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

The complete project file includes the DRAFT Permit, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Scott M. Shephard, PE, at the above address, or call (850) 921-9532 for additional information.



CITY OF HOMESTEAD, FLORIDA

790 N. HOMESTEAD BOULEVARD/HOMESTEAD, FLORIDA 33030/TELEPHONE: (305) 247-1801

J.W. DEMILLY III, *Mayor*
STEVEN C. BATEMAN, *Vice-Mayor*
WILLIAM T. RUDD, *City Manager*

COUNCILMEN:
RUTH L. CAMPBELL
ELIZA D. PERRY

STEVE SHIVER
NICHOLAS R. SINCORE
ROSCOE WARREN

June 7, 1996

Mr. John Brown
Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
2600 Blair Stone Road, Mail Station #5500
Tallahassee, Florida 32399-2400

REF: Title V Operating Permit Application
for the Homestead Power Plant

Dear Mr. Brown:

In compliance with the requirements of Chapter 62-213, FAC, we have prepared and enclosed an application for a Title V Operating Permit for the Homestead's Power Plant. Specifically, we have enclosed four copies of the application for air permit - long form on four computer disks using ELSA version 1.3a accompanied by four hard copies of Section I and the Attachments and Figures portion of the application

If you have any questions or need additional information regarding this submittal, please call me at (305) 247-1801 Ext. 351.

Sincerely,

Mr. John Dorn
Plant Manager

JD:dj

xc: Ivan Clark (R. W. Beck)

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : James L. Swartz
Title : Director of Utilities

2. Owner or Authorized Representative or Responsible Official Mailing Address :

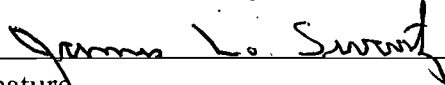
Organization/Firm : City of Homestead
Street Address : 675 N. Flagler Ave.
City : Homestead
State : FL Zip Code : 33030-____

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (305)247-1801 Fax : (305)247-4008

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions units.*



Signature

June 7, 196

Date

* Attach letter of authorization if not currently on file.

I. Part 2 - 1

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

4. Professional Engineer Statement :

I, the undersigned, hereby certified, except as particularly noted herein, that :*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollutant control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

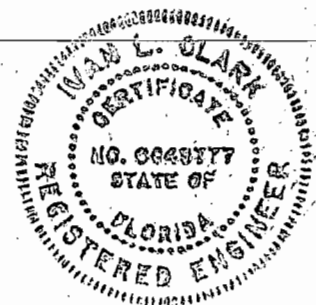
Joan L. Clark
Signature

May 31, 1996
Date

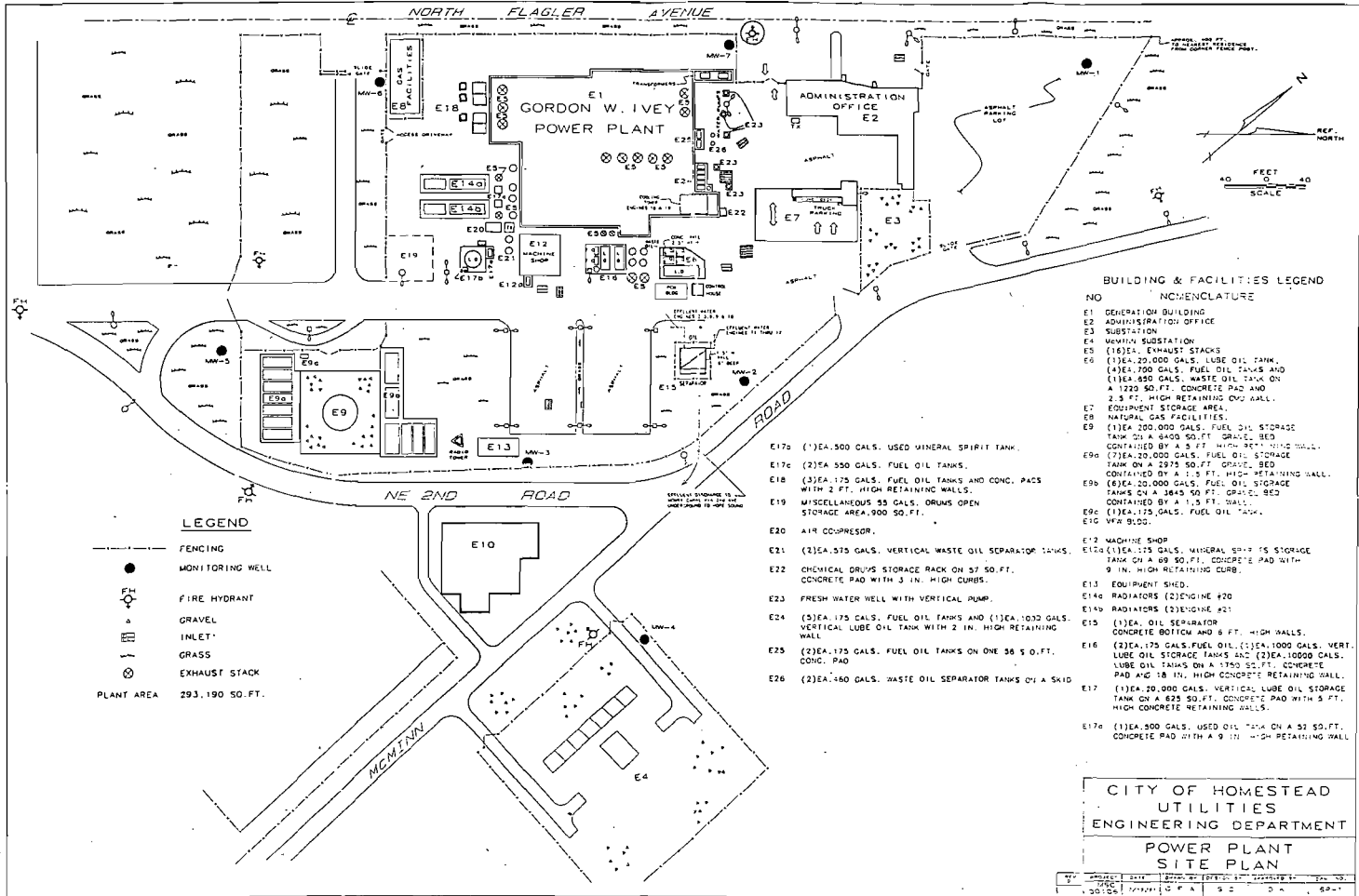
* Attach any exception to certification statement.

I. Part 6 - 1

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96



ATTACHMENTS AND FIGURES



LEGEND

- FENCING
- MONITORING WELL
- ⊕ FIRE HYDRANT
- ⊕ GRAVEL INLET
- ⊕ GRASS
- ⊕ EXHAUST STACK
- ⊕ PLANT AREA 293,190 SQ. FT.

BUILDING & FACILITIES LEGEND

NO	NOMENCLATURE
E1	GENERATION BUILDING
E2	ADMINISTRATIVE OFFICE
E3	SUBSTATION
E4	MOVING SUBSTATION
E5	(1)E5A- EXHAUST STACKS
E6	(1)E6A- 20,000 GALS. LUBE OIL TANK, (4)E6B- 100 GALS. FUEL OIL TANKS AND (1)E6C- 450 GALS. WASTE OIL TANK ON A 1220 SQ. FT. CONCRETE PAD AND 2.5 FT. HIGH RETAINING CURB WALL.
E7	EQUIPMENT STORAGE AREA
E8	NATURAL GAS FACILITIES
E9	(1)E9A- 200,000 GALS. FUEL OIL STORAGE TANK ON A 6400 SQ. FT. GRAVEL BED CONTAINED BY A 5 FT. HIGH RETAINING WALL. (7)E9B- 20,000 GALS. FUEL OIL STORAGE TANK ON A 2975 SQ. FT. GRAVEL BED CONTAINED BY A 2.5 FT. HIGH RETAINING WALL. (3)E9C- 20,000 GALS. FUEL OIL STORAGE TANKS ON A 3845 SQ. FT. GRAVEL BED CONTAINED BY A 1.5 FT. WALL.
E10	(1)E10A- 175 GALS. FUEL OIL TANK.
E11	(1)E11A- 500 GALS. USED MINERAL SPIRIT TANK.
E12	(2)E12A- 575 GALS. VERTICAL WASTE OIL SEPARATOR TANKS.
E13	(1)E13A- 175 GALS. FUEL OIL TANKS AND CONC. PADS WITH 2 FT. HIGH RETAINING WALLS.
E14	MISCELLANEOUS 55 GALS. DRUMS OPEN STORAGE AREA, 900 SQ. FT.
E15	A19 COMPRESSOR.
E16	(2)E16A- 175 GALS. FUEL OIL TANKS AND (1)E16B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.
E17	(1)E17A- 200 GALS. VERTICAL LUBE OIL STORAGE TANK ON A 825 SQ. FT. CONCRETE PAD WITH 3 FT. HIGH CONCRETE RETAINING WALL.
E18	(2)E18A- 60 GALS. WASTE OIL SEPARATOR TANKS ON A SKID.
E19	(1)E19A- 500 GALS. USED OIL TANK ON A 31 SQ. FT. CONCRETE PAD WITH A 9 IN. HIGH RETAINING WALL.
E20	(1)E20A- 175 GALS. FUEL OIL TANKS AND (1)E20B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.
E21	(1)E21A- 175 GALS. FUEL OIL TANKS AND (1)E21B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.
E22	(1)E22A- 175 GALS. FUEL OIL TANKS AND (1)E22B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.
E23	(1)E23A- 175 GALS. FUEL OIL TANKS AND (1)E23B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.
E24	(1)E24A- 175 GALS. FUEL OIL TANKS AND (1)E24B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.
E25	(1)E25A- 175 GALS. FUEL OIL TANKS AND (1)E25B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.
E26	(1)E26A- 175 GALS. FUEL OIL TANKS AND (1)E26B- 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL.

CITY OF HOMESTEAD UTILITIES ENGINEERING DEPARTMENT

POWER PLANT SITE PLAN

DATE: 11/15/77
 DRAWN BY: J. J. ...
 CHECKED BY: ...
 SCALE: 1" = 40'

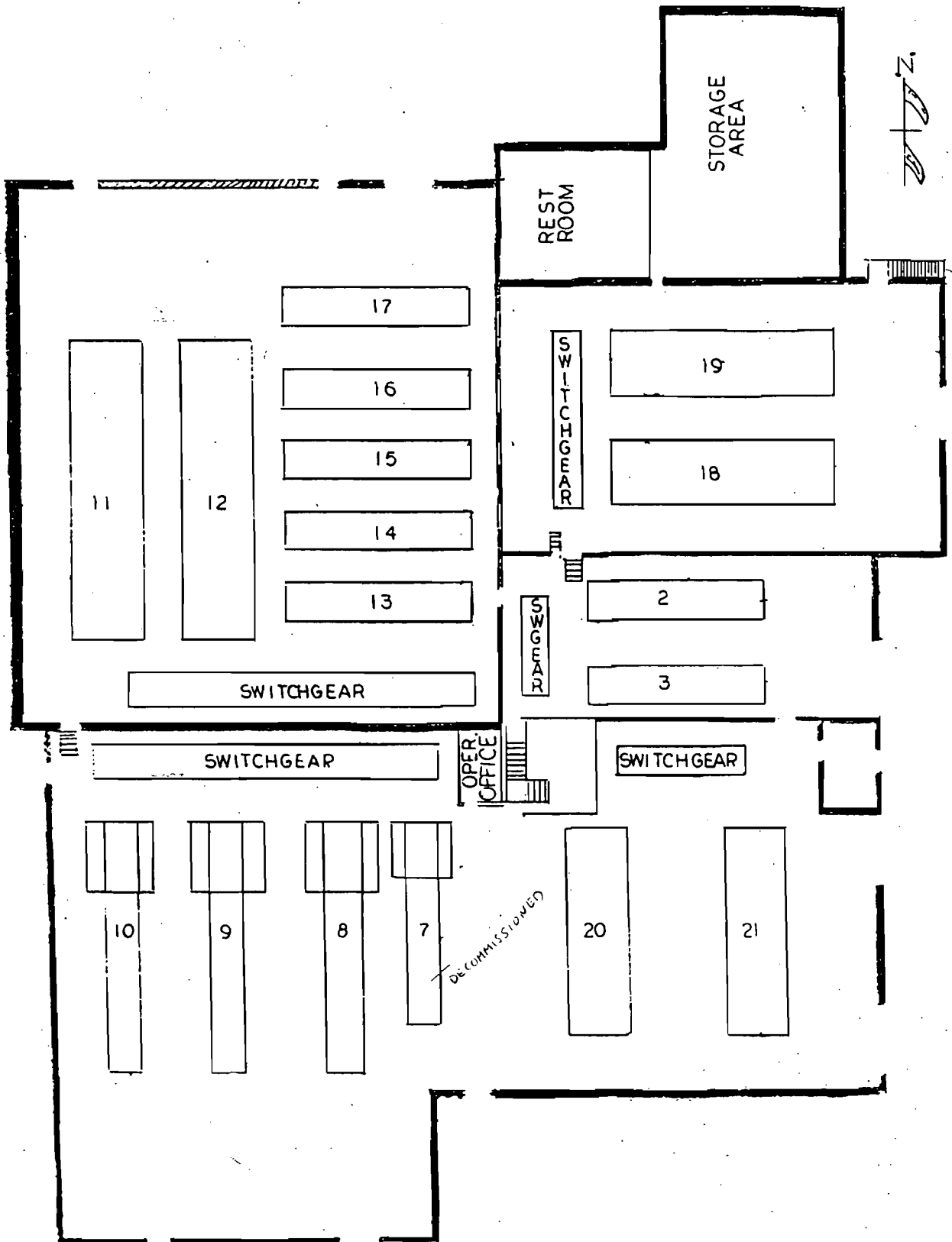
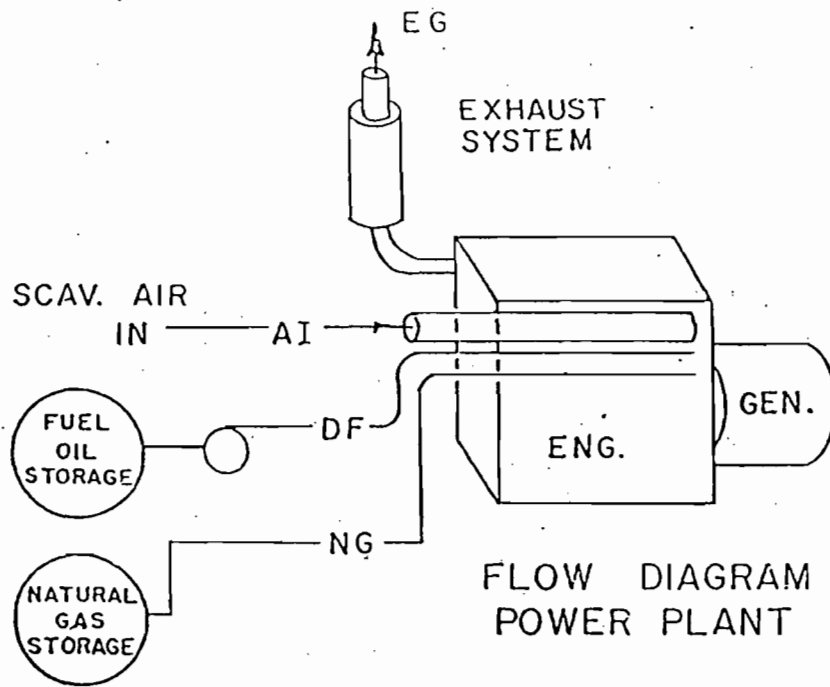
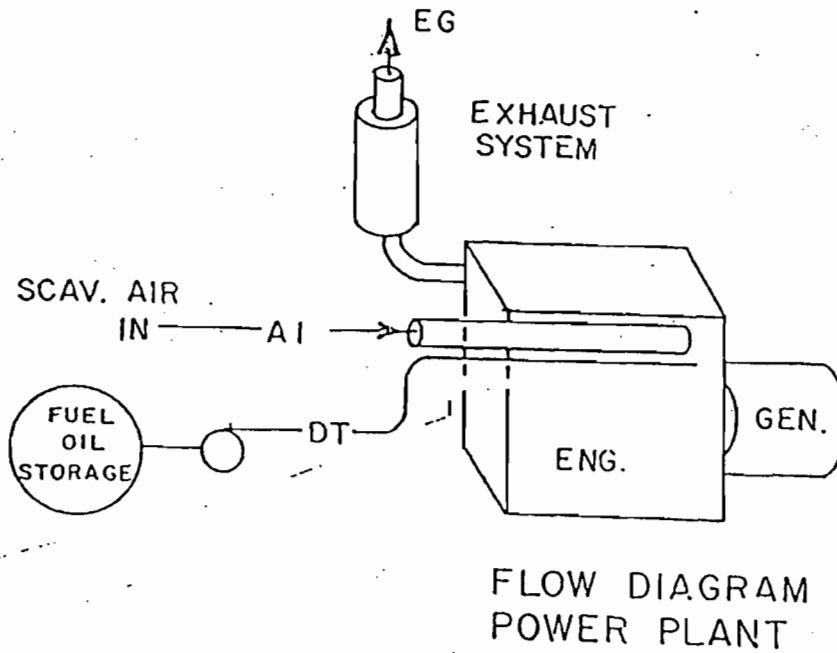


FIGURE 2



TYPICAL FOR DUAL FUEL UNITS



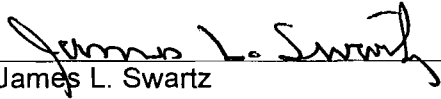
TYPICAL FOR OIL UNITS

Figure 3

Attachment A

COMPLIANCE STATEMENT

I, the undersigned, and the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete."



James L. Swartz
Director of Utilities

Attachment B

FUEL ANALYSES FOR NATURAL GAS

AND NO. 2 FUEL OIL

Colonial Pipeline Company

Product Specifications

3.35.1

SPECIFICATIONS FOR FUNGIBLE LOW SULFUR DIESEL FUEL

Issue No. 3: Grade 74

Cancels Previous Issues of Grade 74

<u>PRODUCT PROPERTY</u>	<u>ASTM Test Method</u>	<u>Test Results</u>		<u>Note</u>
		<u>Minimum</u>	<u>Maximum</u>	
Gravity API	D287	30		
Flash Point, °F				
Pensky-Martin	D93	130		
Distillation, °F	D86			
50%			Report	
90%		540	640	
End Point			690	
Color ASTM	D1500		2.5	
Color Visual		Undyed		
Viscosity, cSt @ 38°C (100°F)	D445	2.0	3.6	
Pour Point	D97			2
Cloud Point	D2500			2
Corrosion, 3 hrs. @ 50°C (122° F)	D130		1	
Total Sulfur, wt. %	D1266			
	D2622			
	or D4294		0.047	3
Cetane Number	D613	40		4
Cetane Index	D976	42		
Ash, wt. %	D482		0.01	
Carbon Residue: Ramsbottom				
on 10% Bottom	D524		0.35	
BS&W, vol. %	D1796			
	or equivalent		< 0.05	
Thermal stability, 90 minutes				
300°F Pad rating,				
DuPont scale			7	
OR				
Oxidation stability, mg/100 ml	D2274		2.5	
Haze rating @ 25°C (77°F)	D4176			
	Procedure 2		2	

Colonial Pipeline Company

Product Specifications

3.35.2

SPECIFICATIONS FOR FUNGIBLE LOW SULFUR DIESEL FUEL

Issue No. 3: Grade 74

Cancels Previous Issues of Grade 74

NOTES:

1. Concentration and type of additives permitted only as approved by Colonial.
2. This schedule denotes the fluidity of the distillate at the time and place of use.

Pour Point, °C (°F) - September, October, November, December, January, February, March	Maximum	-18(0)
Pour Point, °C (°F) - April, May, June, July, August	Maximum	-12(+10)
Cloud Point, °C (°F) - September, October, November, December, January, February, March	Maximum	-9(+15)
Cloud Point, °C (°F) - April, May, June, July, August	Maximum	-7(+20)
3. Test method D2622 or D4294 must be used to certify sulfur content at origin locations.
4. Where cetane number by test method D613 is not available, test method D976 or D4737 can be used as an approximation. Minimum cetane index of 42 must be met regardless of cetane number.

John Dorn

TABLE 1

Constituents Percent by Volume

	<u>MIN</u>	<u>AVG</u>	<u>MAX</u>	<u>Tariff Limits</u>
Hydrogen (H ₂)	1			
Methane (CH ₄)	94.053	94.571	96.113	
Ethylene (C ₂ H ₄)	1			
Ethane (C ₂ H ₆)	2.003	3.208	3.704	
Carbon Monoxide	1			
Carbon Dioxide (CO ₂) 4	0.7004	0.7345	0.7707	
Nitrogen (N ₂) 4	0.44	0.459	0.4793	
Oxygen (O ₂)	1			0.25 %
Hydrogen Sulfide (H ₂ S)	0.016	0.06	0.189	15 grains/Mcf
Sulfur (S)	0.30	0.43	0.59	200 grains/Mcf
Water (H ₂ O) Vapor	2.0	3.1	6.4	7.0 lb/MMcf
Synthetic Lubricants	2			
Specific Gravity	0.584	0.593	0.603	

Ultimate Percent by Weight

Hydrogen	3
Carbon	3
Nitrogen	3
Oxygen	3
Btu/ft ³ @ 60° F and 30" HgA	1027
Btu/lb of Fuel	3

Post-it® Fax Note	7671	Date	# of pages 1
To <i>Maggie</i>		From <i>Mike</i>	
Co./Dept.		Co.	
Phone #		Phone #	
Fax #		Fax #	

- 1) FGT does not routinely test for these components
- 2) Lubricants in use on the FGT system contain no PCB's. Traces of oil may be found in the gas stream.
- 3) These values are not calculated by FGT.
- 4) The gas cannot contain more than a combined total 3% by volume of CO₂ and/or N₂.

Attachment C

**PROCEDURES FOR
STARTUP AND SHUTDOWN**

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

TAKING #2 AND #3 ENGINES OFF DUAL FUEL

1. Put Master Control Switch from "REMOTE" to "LOCAL" Position.
2. Lower Load on Unit to 1000 KW and adjust VARS.
3. Push up on Quick Change Valve, Unit is now on Diesel.
4. Turn Fuel Mode Switch from Dual Fuel to Diesel (ON ENGINE CONTROL BOARD).
5. Open Gas Vent Valve by #1 Cylinder CS Gas Header.

TAKING #2 AND #3 ENGINES OFF LINE

1. Make sure Master Control Switch is in "LOCAL".
2. Lower Engine Load in accordance with Section Two (2), Engine Loading/Unloading Instructions.
3. Open Generator Main Breaker, Unit is now off line.
4. Turn Synchronizing Switch on.
5. "Operator" will match GEN Voltmeter with BUS Voltmeter. Turn Voltage Control Mode Switch to "Off" Position. Turn Synchronizing Switch to "OFF" Position.

SHUTTING #2 AND #3 ENGINES DOWN

1. Turn Engine Start/Stop Switch to Stop (ON ENGINE CONTROL PANEL). Turn off Audible Alarm.
2. Put Governor Load Limit to "0".
3. After Engine comes to a complete stop, turn Control Power Off.
4. Run Raw Water Pump for 5 minutes after Shutdown to remove latent engine heat.

Note: IMPORTANT

After an Engine has been Shutdown, wait 10 minutes. Turn on engine control power. Set Governor Load Limit to "0". Turn Engine Start Switch to Start and Roll for 2-3 revolutions to remove excess oil in the upper pistons.

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

ENGINE OPERATING PROCEDURES

PRE-STATUS PROCEDURES FOR #2 AND #3 ENGINES

1. Check Surge Tank Water Level.
2. Check Oil Level in Crankcase.
3. Check Oil in Governor and Outboard Bearing.
4. Check Starting Air Pressure should be 190 PSI to 230 PSI.

STARTING #2 AND #3 ENGINES

1. Turn Raw Water Pump #1 or #2 to hand on Power Panelboard.
(NOTE: ONLY ONE RAW WATER PUMP IS NEEDED FOR 2 O.P. ENGINES.)
2. Check Control Board to see if Generator Differential Lock-out and Field Breaker are energized. If not, turn Engine Control Power "Off" and Reset.
3. Make sure Master Transfer Switch is in the "LOCAL" Position on Control Board.
4. Turn Auto Synchronizer Switch to the "MANUAL" Position.
5. Turn Voltage Regulator Control Switch to the "OFF" Position.
6. Turn on Engine Control Power (ON ENGINE CONTROL BOARD MAKE SURE "CONTROL" IS AT ENGINE).
7. Set Governor Load Limit accordingly.
8. Prime Fuel System (FUEL PUMP PRIMING HANDLE BEHIND ENGINE CONTROL CABINET) at the same time, Pre-lube Engine for Thirty (30) seconds, then turn Engine Start Switch until Engine comes up to proper RPM.
9. After Engine is running, check all Water, Fuel Oil, Raw Water, Pressure and Temperatures and check for leaks. Brush your hand slightly over Air Start Jumper Pipe. Excessive heat means valves are burned or leaking. NOTE: IMPORTANT - These jumpers are made of copper and get extremely "HOT". Do not grab hold of the jumper with your hands.
10. Close Gas Vent Valve (BY #1 CYL C.S. ON GAS HEADER).

REVISION DATE JANUARY 27, 1987

PAGE 3

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

ENGINE OPERATING PROCEDURES
FAIRBANKS MORSE TYPE DLA
STARTING PROCEDURE FOR ENGINE #8, #9, #10, #11, #12

PRE-STARTING ENGINE CHECKS

1. Check Surge Tank Water Level.
2. Check Oil Level in Crankcase.
3. Check Oil Level in Governor and Blower Motor.
4. Check Starting Air Pressure.

STARTING PROCEDURE

1. Reset Voltage Relay (for #8,9,10 Engs only) Auxiliary
Compartment.
2. Crank Force-Fed Lubricators (50 times Each).
If Engine has not run for over one week, crank Force-Fed
Lubricators 75 to 100 turns.
3. Turn on Fuel Pump (#8 Engine only).
4. Turn on Raw Water Pump to Hand Position.
5. Turn on Jacket Water Pump to Hand Position.
6. Turn on Lube Oil Auxiliary Pump to Hand Position.
7. Open Air Start Valve to Engine.
8. Set Governor Load Limit to 8
9. Check Raw Water Flow, Jacket Water, Lube Oil, and Fuel
Pressure. Open Raw Water Valve to Intercooler, 1 turn in warm
weather.

GENERATIONS OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

11. Turn on Exciter Field Motor, 8-10 Engines only (CHECK BEHIND 4160 SWITCHGEAR TO SEE IF MOTOR IS RUNNING).
12. Set Voltmeter Selector to 1-2-3, check Voltage on all three phases.
13. Put Engine Start Handle to "START", after Engine is up to proper RPM, move it back to "RUN". Close air start valve.
14. SET INCOMING VOLTAGE WITH RUNNING VOLTAGE AND HERTZ.
15. Turn off Auxiliary Lube Oil Pump and make sure Engine Driven Pump is supplying pressure.
 - a. Check Outboard Bearing Oil Rings and Blower Oil Pressure.
 - b. Check top of Engine for loose nuts, studs, water, oil, fuel leaks. Brush your hand slightly over all start jumper pipe and also on gas jumper pipe. Excessive heat means valves are burned or leaking.

NOTE: IMPORTANT - THESE JUMPERS ARE MADE OF COPPER AND GET EXTREMELY HOT. DO NOT GRAB HOLD OF THE JUMPER WITH YOUR HANDS.

Normal alarms on 8-10 ENGINES ONLY.

- c. F.O. Level Abnormal - turn on.
- d. Jacket Water Temperature - turn on.
- e. Jacket Water PSI - turn on.
- f. Lube Oil PSI - turn on.
- g. CC Vacuum PSI - turn on.

NOTE: (AN ENGINE IN OPERATION SHOULD NEVER BE LEFT ENTIRELY UNATTENDED).

REVISION DATE JANUARY 27, 1987
PAGE 10

SHUTTING #8-12 ENGINE DOWN

1. Lower Engine Load in accordance with Section Two (2), Engine Loading/Unloading Instructions.
2. Open Generator Main Breaker.
3. Match Incoming and Running Voltage.
4. Set Frequency at 60 hertz.
5. Put Start Handle to "STOP", and turn on Auxiliary Lube Oil Pump.
6. After Engine comes to a complete stop, turn off Auxiliary Lube Oil Pump.
7. Turn off Jacket Water Pump.
8. Turn on Generator Heater.
9. Turn off Raw Water Pump.
10. Turn off Fuel Pump (#8 only) and close Raw Water Valve to Intercooler.

FOR ENGS. #8-10 ONLY

11. F.O. Level abnormal - turn off.
12. Jacket Water temperature - turn off.
13. Jacket Water PSI - turn off.
14. Lube oil PSI - turn off.
15. CC Vacuum PSI - turn off.

Also, run all Oil Pumps, Raw Water Pumps, Jacket Water Pumps, for 10 minutes after Shutdown to remove Latent Engine Heat.

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

ENGINE OPERATING PROCEDURES
FAIRBANKS MORSE TYPE OP ENGINES

PRE-STARTING PROCEDURES FOR #13 THRU #17 ENGINES

1. Check Surge Tank Water Level.
2. Check Oil Level in Crankcase.
3. Check Oil in Governor and Outboard Bearing.
4. Check Starting Air Pressure.

LOCAL STARTING #13 THRU #17 ENGINES

1. Turn on Raw Water Pump #1 or #2 on General Electric Motor Control Center. (NOTE: ONLY ONE RAW WATER PUMP IS NEEDED FOR 5 OP ENGINES).
2. Check Control Board to see if Generator Differential Lock-out and Field Breaker are energized. If not, turn Engine Control Power "Off" and Reset.
3. Turn Voltage Regulator Control Switch to the "Off" Position.
4. Turn on Engine Control Power (ON ENGINE CONTROL BOARD MAKE SURE "CONTROL" IS AT ENGINE).
5. Set Governor Load Limit to "8".
6. Prime Fuel System (FUEL PUMP PRIMING HANDLE BEHIND ENGINE CONTROL CABINET) at the same time, Pre-lube Engine for Thirty (30) seconds, then push Engine Start Button until Engine comes up to proper RPM.
7. After Engine is running, check all Water, Fuel Oil, Raw Water, Pressure and Temperatures and check for leaks. Brush your hand slightly over Air Start Jumper Pipe. Excessive heat means valves are burned or leaking. NOTE: IMPORTANT - These jumpers are made of copper and get extremely "HOT". Do not grab hold of the jumper with your hands.
8. Close Gas Vent Valve (BY #1 CYL C.S. ON GAS HEADER).

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

TAKING #13 THRU #17 ENGINES OFF DUAL FUEL

1. Put Master Control Switch from "REMOTE" to "LOCAL" Position.
2. Lower Load on Unit to 1000 KW and adjust VARS.
3. Push up on Quick Change Valve, Unit is now on Diesel.
4. Turn Fuel Mode Switch from Dual Fuel to Diesel (ON ENGINE CONTROL BOARD).
5. Open Gas Header Vent Valve (BY #1 CYL C.S. ON GAS HEADER).

TAKING #13 THRU #17 ENGINES OFF LINE

1. Make sure Master Control Switch is in "LOCAL".
2. Lower Engine Load in accordance with Section Two (2), Engine Loading/Unloading Instructions.
3. Open Generator Main Breaker, Unit is now off line.
4. Put handle in Synchronizing Switch and turn on.
5. "Operator" will match GEN Voltmeter with BUS Voltmeter. Turn Voltage Control Mode Switch to "Off" Position. Turn off Synchronizing Switch.

SHUTTING #13 THRU #17 ENGINES DOWN

1. Turn Alarm and Horn Timers on. Push Stop Button (ON ENGINE CONTROL PANEL).
2. Put Governor Load Limit to "0".
3. After Engine comes to a complete stop, turn Control Power Off,
4. Turn Timers off.

NOTE: IMPORTANT

After an O.P. Engine has been shut down, wait 10 minutes, turn on Engine Control Power. Make sure Governor Load Limit is at "0". Push Engine Start Button and Roll Engine 3 to 4 complete Revolutions to get all excessive oil out of upper pistons.

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85
REVISED 8/3/93

SECTION III

STARTING PROCEDURES FOR #18 AND #19 ENGINES

1. Open all 20 Compression Cocks on Engine.
2. Open Main Starting Air Valve.
3. Governor Load Limit to "0" Zero.
4. Turn J. W. Pump to Hand Position. Pull Engine Roll Button out and hold - Roll Engine several revolutions and check to make sure no water is coming out of the Compression Cocks. If water is coming out of Compression Cocks, Stop rolling Engine and REPORT it to the Operations Foreman. Engine Oil Pump comes on when you pull Roll Button.
5. Close Main Starting Air Valve.

PRE-START ENGINE CHECKS

1. Close all 20 Compression Cocks.
2. Check Jacket Water Level.
3. Check Lube Oil Level.
4. Check Cooling Tower Level and Valve alignment. Make sure that Feed Water Valve is Open.
5. Check Acid Drum and System. Make sure Valves on their side of PH₂ probe are open.
6. Open Main Fuel Valves at Day Tanks.
7. Put Governor Load Limit at "10" ten. Start/Stop Knob needs to be pulled out AT THE ENGINE.
8. Open Main Starting Air Valve.
9. Set Pump Switches in the following sequence;
 - A. Turn Raw Water Pump to AUTO.
 - B. Turn Fuel Oil Transfer Pump to AUTO.

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GENERATION OPERATIONS MANUAL
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REVISED 8/3/93

SECTION III

- C. Turn Cooling Tower Fan to AUTO.
- D. Turn Fuel Oil Booster Pump to AUTO.
- E. Turn Jacket Water Pump to AUTO.
- F. Select either L. O. Pump 1 or 2 and turn Switch to AUTO.
- G. Turn L.O. Keep Warm Pump Off.
- H. Push Engine Start Button. NOTE - Start Button must be pushed within 10 sec. of turning L. O. Pump to AUTO or System will automatically switch to Pump 2. Should Engine be started in this condition Pump 2 will continue to run no matter where you put the Pump Select Switch until Engine is stopped, All Pumps turned Off and the Start Button Pushed.

Should Engine fail to start the MIS-START MOTOR CONTROLS FUNCTION light will come on. To clear, turn All Pumps Off, Close Main Air Start Valve and Push Start Button. This activates a 2 1/2 minute timer. After Timer times out repeat step 8 to Start Engine.

- I. Pull Fuel Rack Handle Open. After Engine is running, Close Main Air Start Valve. Check all Pressures and Temperatures on Engine. Check Oil circulation on Pedestal Bearing. Check Brushes on Generator Slip Ring. Check top of Engine, Left and Right Banks for Leaks, Broken Bolts, Cable tightness, etc. Make a Visual Inspection of all systems. (4 times a shift)

PUTTING #18 & #19 ON LINE

1. Close Engine Lockout Relay.
2. Close Generator Lockout Relay.
3. Close Generator Field Breaker Control Switch.
4. Turn Synchronizing Switch ON.
5. Bring Running Voltage up Slowly to Match Incoming Voltage.

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85
REVISED 8/3/93

SHUTTING #18 & #19 ENGINE DOWN

1. Lower Load per GENERAL INSTRUCTIONS on Page 2A to 4000 KW and take Unit off Dual Fuel by turning Fuel Selector to DIESEL. Close Main Gas Valve. Engine is now on Diesel.
2. Continue Lowering Load to per Step 1. Let Engine idle a minimum of five minutes prior to opening Generator Breaker.
3. Push Engine Control Stop Button on Breaker Panel or Push Stop Button on Gauge Board or Push Start/Stop Knob in at Engine.
4. Let Pumps run for 5 to 10 minutes to cool all bearings down.
5. Turn Off all Pumps.
6. Turn On L.O. Keep Warm Pump.
7. Close Fuel Supply Valves to Day Tanks.

"EMERGENCY" Switch Over from Gas to Diesel is accomplished by Closing the Main Gas Valve.

#18 & #19 OPERATING PROCEDURES

1. When Engine is Running, walk up on top of Engine and Check both Left and Right Banks for broken bolts, cable tightness and leaks. (4 TIMES A SHIFT)
2. Check Cooling Tower to make sure water is flowing through all water holes on top of tower. Also check Acid Pump and Drum Level. (2 TIMES PER SHIFT)
3. Check Oil Pumps and Heat Exchangers in Basement. (2 TIMES PER SHIFT)
4. Check Fuel Oil Day Tanks. (HOURLY)
5. Check Oil Level in Governor. (2 TIMES PER SHIFT)
6. Check Lube Oil Sump Tank Level when Engine is Logged.
7. Check oil circulation on pedestal bearing slip rings hourly.
8. Make hourly and daily Engine checks per Engine Check List. Engine Operator will be responsible for signing off that all Engine checks have been made during his shift.

REVISION DATE JANUARY 27, 1987

PAGE 25

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

STARTING #20 AND #21 ENGINES

1. Open Main Fuel Valve to Day Tanks. Make sure Control Mode is in "LOCAL" position (ON SWITCHGEAR).
- 1A. At the Switchgear Panel " Verify the following" - No Flags are indicated on Protection Relays and the Voltage Regulator Control Switch is in the "Off" Position.
2. Turn Jacket Water Pump to Hand Run.
3. Turn I.C.W. Water Pump to Hand Run.
4. Turn F.O. Supply Pump to Hand Run.
5. Turn Crank Case Vacuum Pump to Hand Run.
6. Turn AUX L.O. Pump to Hand Run. Note: Check Oil Level in Aux. L.O. Pump Drive Units before starting.
7. Turn Fan #1 J.W. Radiator to auto. NOTE: Check Oil in Radiator Fan Drive Units before starting.
8. Turn Fan #1 I.C.W. Radiator to Auto.
9. Turn F.O. Transfer Pump to Auto.
10. Turn Rocker L.O. Pump to Hand Run.
11. Turn Fan #2 J.W. Radiator to Auto.
12. Turn Fan #2 I.C.W. Radiator to Auto.
13. Open Main Air Start Supply to Engine.
14. Set Governor Load Limit to 10.
15. Check all Water, Oil, Fuel, Raw Water Pressure and Temperature.
16. Wait until Lube Oil Ppressure at Lube Oil Pump discharge is over 60 lbs. and Engine Header is over 60 lbs. (NOTE BEFORE STARTING UNITS).
17. Double check everything out before starting.

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

18. Turn Engine Start Switch to "Start" and hold until the first ignitions take place, release Start Switch, shutting off starting air.
19. Close Main Air Start Supply Valve to engine.
20. Check Outboard Bearing, Turbo's Rocker Lube Oil Level, Raw Water, Jacket Water, Fuel, Oil Level in Gear Boxes on Fan's, Pressure and Level Temperatures. Brush your hand slightly over Air Start Jumper Pipe. Excessive heat means valves are burned or leaking. NOTE: IMPORTANT - These jumpers are made of copper and get extremely "HOT". Do not grab hold of the jumpers with your hand.
21. Turn AUX L.O. Pump to AUTO, after Oil Inlet Header Pressure reaches 60 PSI.
22. Turn Rocker L.O. pump to AUTO.
23. Raise Engine speed to 514 RPM. Unit is ready to go on line (AFTER PRESSURE CIRCUIT ARMED LIGHT IS LIT).

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

SHUTTING #20 AND #21 ENGINES DOWN

1. Turn AUX L.O. pump to hand run.
2. Turn rocker L.O. pump to hand run.
3. Push Stop Button on Engine Control Panel.

After Engine comes to a complete stop:

"Run all oil pumps, jacket water pumps, for 10 minutes after shutdown to remove latent engine heat."

4. Turn off J.W. Pump.
5. Turn off I.C.W. Pump.
6. Turn off F.O. Supply Pump.
7. Turn off C. CASE Vacuum Pump.
8. Turn off AUX L.O. Pump.
9. Turn off Fan #1 J.W. Radiator.
10. Turn off Fan #1 I.C.W. Radiator.
11. Turn off F.O. Transfer Pump.
12. Turn off Fan #2 J.W. Radiator.
13. Turn off Fan #2 I.C.W. Radiator.
14. Close Main Fuel Valve to Day Tanks.

Attachment D

ADDITIONAL APPLICABLE REQUIREMENTS

Additional applicable requirements for units 2, 3, and 8 through 21 (002, 003, 008-021) and the associated compliance methods, recordkeeping, and monitoring requirements are set forth in the current operating permit, attached.

METROPOLITAN DADE COUNTY, FLORIDA



**AIR EMISSIONS
ANNUAL OPERATING PERMIT**

ENVIRONMENTAL RESOURCES MANAGEMENT
33 S.W. 2nd AVENUE
MIAMI, FLORIDA 33130-1540
(305) 372-6789

PERMITTEE:

Mr. James L. Swartz
GORDON W. IVBY MUN. POWER PLANT
675 N FLAGLER AVE
HOMESTEAD, FL 33030

PAGE 1 OF 1

PERMIT No.: AP-00145 (A3)/MSP-00541-93 08
SOURCE NAME: GORDON W. IVBY MUN. POWER PLANT
LOCATION: 675 N FLAGLER AVE
HOMESTEAD, FL 33030

DESCRIPTION OF FACILITY/EQUIPMENT:**POWER GENERATING FACILITY**

Eighteen internal combustion engines for generating electric power using both, natural gas and #2 fuel oil.

SPECIFIC CONDITIONS:

- 01 No visible emissions equal to or greater than 20% opacity permitted from this facility.
- 02 No objectionable odor is allowed.

GENERAL CONDITIONS:

- 03 The applicant, by acceptance of this document, agrees to operate and maintain the subject operation so as to comply with the requirements and standards of Chapter 24 of the Code of Metropolitan Dade County.
- 04 If for any reason, the applicant does not comply with or will be unable to comply with any condition or limitation specified on this document the applicant shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps taken to reduce, eliminate, and prevent recurrence of the non-compliance. The applicant 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 document.
- 05 As provided in Section 24-30 of the Code of Metropolitan Dade County, the prior written approval of the Department of Environmental Resources Management shall be obtained for any alteration to this facility.
- 06 The issuance of this document 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. Nor does it relieve the applicant from liability for harm or injury to human health or welfare or property.
- 07 This document is required to be posted in a conspicuous location at the pollution control facility site during the entire period of operation.
- 08 This document is not transferable. Upon sale or legal transfer of the property or facility covered by this document, the applicant shall notify the department within thirty (30) days. The new owner must apply for a permit within thirty (30) days. The applicant shall be liable for any non-compliance of the source until the transferee applies for and receives a transfer of this document.
- 09 The applicant, by acceptance of this document, specifically agrees to allow access to the named source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this document and department rules.
- 10 This document does not indicate a waiver of or approval of any other department permit that may be required for other aspects of this facility.

Section Approval:

- 11 This document does not constitute an approval by DERM or certification that the applicant is in compliance with applicable laws, ordinances, rules or regulations. The applicant acknowledges that separate enforcement actions may be initiated by DERM and that this document does not constitute compliance with orders issued in conjunction with enforcement actions for correction of violations.
- 12 Failure to comply with any condition of this document, or the standards as set forth in Chapter 24, Code of Metropolitan Dade County may subject the applicant to the penalty provisions of said Chapter including civil penalties up to \$25,000 per day per offense and/or criminal penalties of \$500 per day and/or sixty (60) days in jail.

0250013

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : James L. Swartz
Title : Director of Utilities

2. Owner or Authorized Representative or Responsible Official Mailing Address :

Organization/Firm : City of Homestead
Street Address : 675 N. Flagler Ave.
City : Homestead
State : FL Zip Code : 33030-____

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (305)247-1801 Fax : (305)247-4008

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions units.*

James L. Swartz
Signature

June 7, 96
Date

* Attach letter of authorization if not currently on file.

I. Part 2 - 1

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

4. Professional Engineer Statement :

I, the undersigned, hereby certified, except as particularly noted herein, that :*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollutant control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

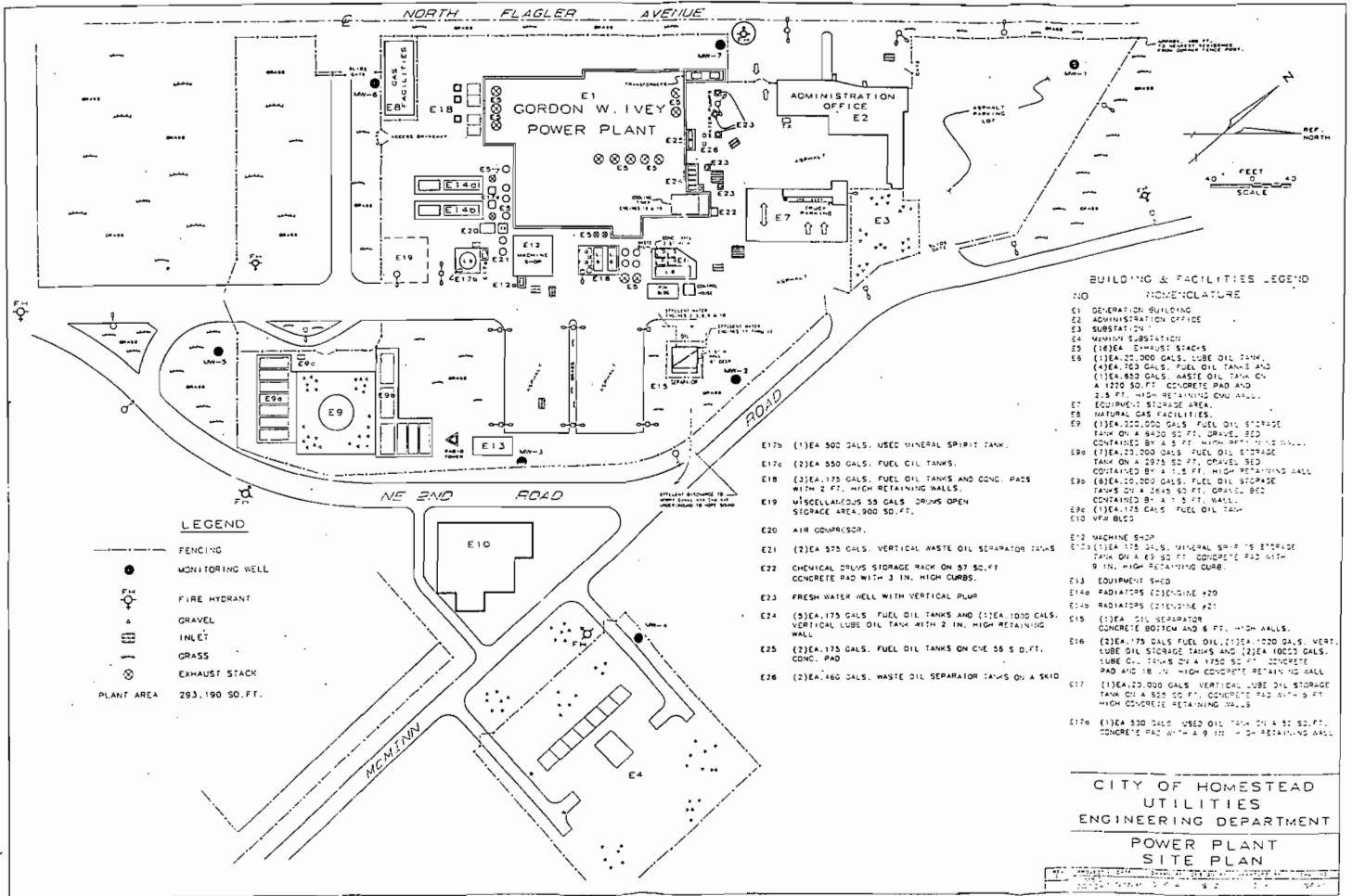
Juan A. Clark
Signature

May 31, 1996
Date

* Attach any exception to certification statement.

I. Part 6 - 1

ATTACHMENTS AND FIGURES



LEGEND

- FENCING
- MONITORING WELL
- ⊕ FIRE HYDRANT
- ▭ GRAVEL
- ▭ INLET
- ▭ GRASS
- ⊗ EXHAUST STACK
- PLANT AREA 293,190 SQ. FT.

BUILDING & FACILITIES LEGEND

- 210 NOMENCLATURE
- E1 GENERATION BUILDING
- E2 ADMINISTRATION OFFICE
- E3 SUBSTATION
- E4 MEDIUM SUBSTATION
- E5 (3)E4 EXHAUST STACKS
- E6 (1)E4 20,000 GALS. FUEL OIL TANK, (1)E4 500 GALS. FUEL OIL TANK AND (1)E4 800 GALS. WASTE OIL TANK ON A 1750 SQ. FT. CONCRETE PAD AND 2 1/2 FT. HIGH RETAINING WALL
- E7 EQUIPMENT STORAGE AREA
- E8 NATURAL GAS FACILITIES
- E9 (1)E4 20,000 GALS. FUEL OIL STORAGE TANK ON A 8400 SQ. FT. GRAVEL BED CONTAINED BY A 5 FT. HIGH RETAINING WALL
- E9A (1)E4 20,000 GALS. FUEL OIL STORAGE TANK ON A 2975 SQ. FT. GRAVEL BED CONTAINED BY A 1 1/2 FT. HIGH RETAINING WALL
- E9B (3)E4 20,000 GALS. FUEL OIL STORAGE TANKS ON A 1845 SQ. FT. GRAVEL BED CONTAINED BY A 1 1/2 FT. WALL
- E9C (1)E4 175 GALS. FUEL OIL TANK
- E10 VW BLDG
- E12 MACHINE SHOP
- E13 (1)E4 75 GALS. MINERAL SPIRIT STORAGE TANK ON A 63 SQ. FT. CONCRETE PAD WITH 9 IN. HIGH RETAINING CURB
- E13 EQUIPMENT SHOP
- E14B RADIATORS (1)E14B #20
- E14C RADIATORS (1)E14C #20
- E15 (1)E4 OIL SEPARATOR CONCRETE BOTTOM AND 6 FT. HIGH WALLS
- E16 (2)E4 175 GALS. FUEL OIL, (1)E4 1000 GALS. VERT. LUBE OIL STORAGE TANKS AND (1)E4 1000 GALS. VERT. LUBE OIL TANK ON A 1750 SQ. FT. CONCRETE PAD AND 18 IN. HIGH CONCRETE RETAINING WALL
- E17 (1)E4 20,000 GALS. VERTICAL LUBE OIL STORAGE TANK ON A 800 SQ. FT. CONCRETE PAD WITH 9 FT. HIGH CONCRETE RETAINING WALLS
- E17A (1)E4 500 GALS. USED OIL TANK ON A 81 SQ. FT. CONCRETE PAD WITH A 9 IN. HIGH RETAINING WALL
- E17B (1)E4 500 GALS. USED MINERAL SPIRIT TANK
- E17C (2)E4 550 GALS. FUEL OIL TANKS
- E18 (3)E4 175 GALS. FUEL OIL TANKS AND CONC. PADS WITH 2 FT. HIGH RETAINING WALLS
- E19 MISCELLANEOUS 55 GALS. DRUMS OPEN STORAGE AREA, 900 SQ. FT.
- E20 AIR COMPRESSOR
- E21 (2)E4 575 GALS. VERTICAL WASTE OIL SEPARATOR TANKS
- E22 CHEMICAL DRUMS STORAGE RACK ON 57 SQ. FT. CONCRETE PAD WITH 3 IN. HIGH CURBS
- E23 FRESH WATER WELL WITH VERTICAL PUMP
- E24 (3)E4 175 GALS. FUEL OIL TANKS AND (1)E4 1000 GALS. VERTICAL LUBE OIL TANK WITH 2 IN. HIGH RETAINING WALL
- E25 (2)E4 175 GALS. FUEL OIL TANKS ON CIVE 55 S D. FT. CONC. PAD
- E26 (2)E4 460 GALS. WASTE OIL SEPARATOR TANKS ON A SKID

CITY OF HOMESTEAD
 UTILITIES
 ENGINEERING DEPARTMENT
 POWER PLANT
 SITE PLAN

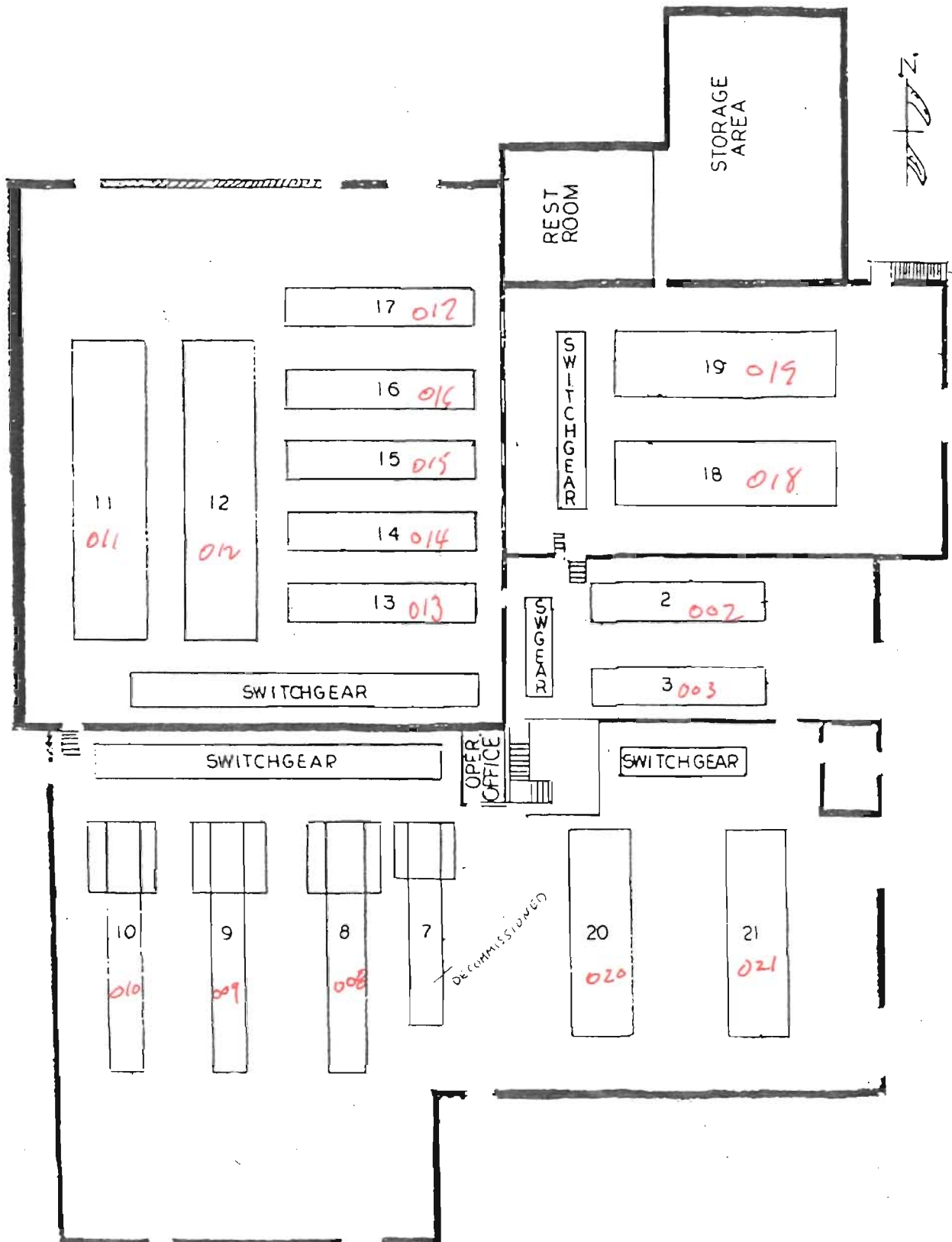
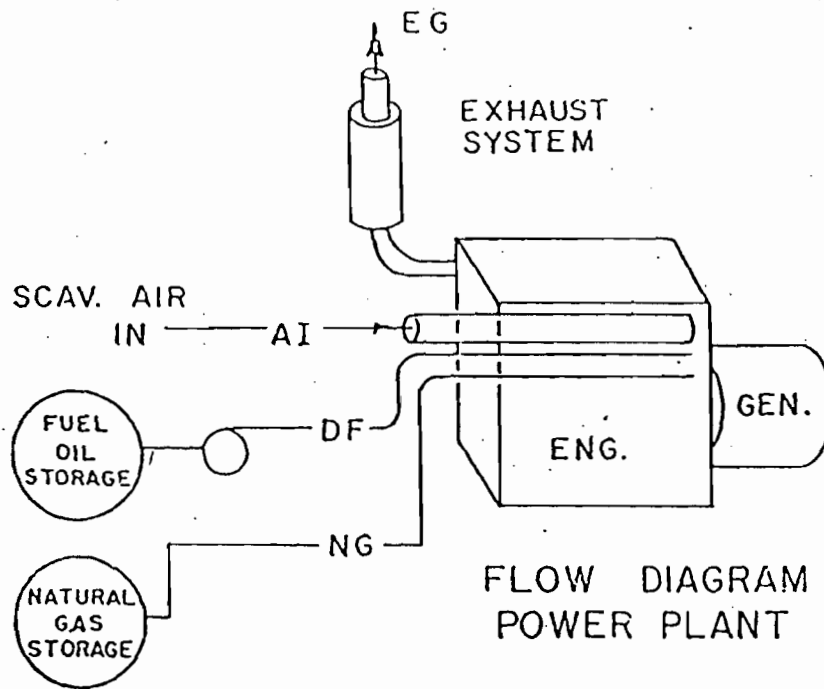
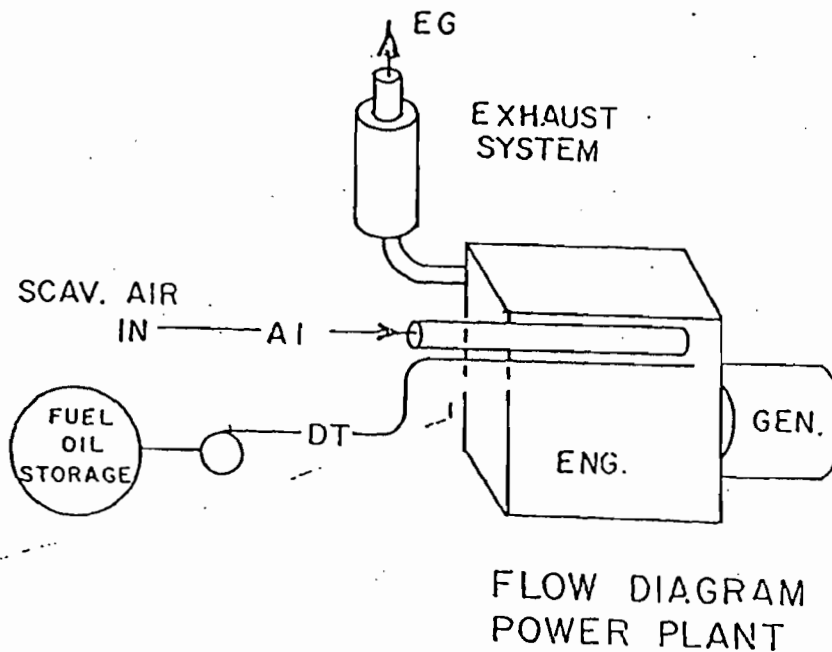


FIGURE 2



TYPICAL FOR DUAL FUEL UNITS



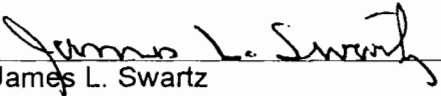
TYPICAL FOR OIL UNITS

Figure 3

Attachment A

COMPLIANCE STATEMENT

I, the undersigned, and the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete."



James L. Swartz
Director of Utilities

Attachment B

FUEL ANALYSES FOR NATURAL GAS

AND NO. 2 FUEL OIL

Colonial Pipeline Company

Product Specifications

3.35.1

SPECIFICATIONS FOR FUNGIBLE LOW SULFUR DIESEL FUEL

Issue No. 3: **Grade 74**

Cancels Previous Issues of Grade 74

PRODUCT PROPERTY	ASTM Test Method	Test Results		Note
		Minimum	Maximum	
Gravity API	D287	30		
Flash Point, °F				
Pensky-Martin	D93	130		
Distillation, °F	D86			
50%			Report	
90%		540	640	
End Point			690	
Color ASTM	D1500		2.5	
Color Visual		Undyed		
Viscosity, cSt @ 38°C (100°F)	D445	2.0	3.6	
Pour Point	D97			2
Cloud Point	D2500			2
Corrosion, 3 hrs. @ 50°C (122° F)	D130		1	
Total Sulfur, wt. %	D1266 D2622 or D4294		0.047	3
Cetane Number	D613	40		4
Cetane Index	D976	42		
Ash, wt. %	D482		0.01	
Carbon Residue: Ramsbottom on 10% Bottom	D524		0.35	
BS&W, vol. %	D1796 or equivalent		< 0.05	
Thermal stability, 90 minutes 300°F Pad rating, DuPont scale			7	
OR				
Oxidation stability, mg/100 ml	D2274		2.5	
Haze rating @ 25°C (77°F)	D4176 Procedure 2		2	

Colonial Pipeline Company

Product Specifications

3.35.2

SPECIFICATIONS FOR FUNGIBLE LOW SULFUR DIESEL FUEL

Issue No. 3: **Grade 74**

Cancels Previous Issues of Grade 74

NOTES:

1. Concentration and type of additives permitted only as approved by Colonial.
2. This schedule denotes the fluidity of the distillate at the time and place of use.

Pour Point, °C (°F) - September, October, November, December, January, February, March	Maximum	-18(0)
Pour Point, °C (°F) - April, May, June, July, August	Maximum	-12(+10)
Cloud Point, °C (°F) - September, October, November, December, January, February, March	Maximum	-9(+15)
Cloud Point, °C (°F) - April, May, June, July, August	Maximum	-7(+20)

3. Test method D2622 or D4294 must be used to certify sulfur content at origin locations.
4. Where cetane number by test method D613 is not available, test method D976 or D4737 can be used as an approximation. Minimum cetane index of 42 must be met regardless of cetane number.

Julen Dorn

TABLE 1

Constituents, Percent by Volume

	<u>MIN</u>	<u>AVG</u>	<u>MAX</u>	<u>Tariff Limits</u>
Hydrogen (H ₂)	1			
Methane (CH ₄)	94.053	94.571	96.113	
Ethylene (C ₂ H ₄)	1			
Ethane (C ₂ H ₆)	2.003	3.208	3.704	
Carbon Monoxide	1			
Carbon Dioxide (CO ₂) 4	0.7004	0.7345	0.7707	
Nitrogen (N ₂) 4	0.44	0.459	0.4793	
Oxygen (O ₂)	1			0.25 %
Hydrogen Sulfide (H ₂ S)	0.016	0.06	0.189	15 grains/Mcf
Sulfur (S)	0.30	0.43	0.59	200 grains/Mcf <i>(0.00020)</i>
Water (H ₂ O) Vapor	2.0	3.1	6.4	7.0 lb/MMcf
Synthetic Lubricants	2			
Specific Gravity	0.584	0.593	0.603	

Ultimate, Percent by Weight

Hydrogen	3			
Carbon	3			
Nitrogen	3			
Oxygen	3			
Btu/ft ³ @ 60° F and 30" HgA	1027	1049	1061	≥ 1000
Btu/lb of Fuel	3			

Post-it® Fax Note	7671	Date	# of pages ▶ 1
To <i>Maggie</i>		From <i>Mike</i>	
Co./Dept.		Co.	
Phone #		Phone #	
Fax #		Fax #	

- 1) FGT does not routinely test for these components
- 2) Lubricants in use on the FGT system contain no PCB's. Traces of oil may be found in the gas stream.
- 3) These values are not calculated by FGT.
- 4) The gas cannot contain more than a combined total 3% by volume of CO₂ and/or N₂.

Attachment C

**PROCEDURES FOR
STARTUP AND SHUTDOWN**

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

TAKING #2 AND #3 ENGINES OFF DUAL FUEL

1. Put Master Control Switch from "REMOTE" to "LOCAL" Position.
2. Lower Load on Unit to 1000 KW and adjust VARS.
3. Push up on Quick Change Valve, Unit is now on Diesel.
4. Turn Fuel Mode Switch from Dual Fuel to Diesel (ON ENGINE CONTROL BOARD).
5. Open Gas Vent Valve by #1 Cylinder CS Gas Header.

TAKING #2 AND #3 ENGINES OFF LINE

1. Make sure Master Control Switch is in "LOCAL".
2. Lower Engine Load in accordance with Section Two (2), Engine Loading/Unloading Instructions.
3. Open Generator Main Breaker, Unit is now off line.
4. Turn Synchronizing Switch on.
5. "Operator" will match GEN Voltmeter with BUS Voltmeter. Turn Voltage Control Mode Switch to "Off" Position. Turn Synchronizing Switch to "OFF" Position.

SHUTTING #2 AND #3 ENGINES DOWN

1. Turn Engine Start/Stop Switch to Stop (ON ENGINE CONTROL PANEL). Turn off Audible Alarm.
2. Put Governor Load Limit to "0".
3. After Engine comes to a complete stop, turn Control Power Off.
4. Run Raw Water Pump for 5 minutes after Shutdown to remove latent engine heat.

Note: IMPORTANT

After an Engine has been Shutdown, wait 10 minutes. Turn on engine control power. Set Governor Load Limit to "0". Turn Engine Start Switch to Start and Roll for 2-3 revolutions to remove excess oil in the upper pistons.

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

ENGINE OPERATING PROCEDURES

PRE-STATUS PROCEDURES FOR #2 AND #3 ENGINES

1. Check Surge Tank Water Level.
2. Check Oil Level in Crankcase.
3. Check Oil in Governor and Outboard Bearing.
4. Check Starting Air Pressure should be 190 PSI to 230 PSI.

STARTING #2 AND #3 ENGINES

1. Turn Raw Water Pump #1 or #2 to hand on Power Panelboard. (NOTE: ONLY ONE RAW WATER PUMP IS NEEDED FOR 2 O.P. ENGINES.)
2. Check Control Board to see if Generator Differential Lock-out and Field Breaker are energized. If not, turn Engine Control Power "Off" and Reset.
3. Make sure Master Transfer Switch is in the "LOCAL" Position on Control Board.
4. Turn Auto Synchronizer Switch to the "MANUAL" Position.
5. Turn Voltage Regulator Control Switch to the "OFF" Position.
6. Turn on Engine Control Power (ON ENGINE CONTROL BOARD MAKE SURE "CONTROL" IS AT ENGINE).
7. Set Governor Load Limit accordingly.
8. Prime Fuel System (FUEL PUMP PRIMING HANDLE BEHIND ENGINE CONTROL CABINET) at the same time, Pre-lube Engine for Thirty (30) seconds, then turn Engine Start Switch until Engine comes up to proper RPM.
9. After Engine is running, check all Water, Fuel Oil, Raw Water, Pressure and Temperatures and check for leaks. Brush your hand slightly over Air Start Jumper Pipe. Excessive heat means valves are burned or leaking. NOTE: IMPORTANT - These jumpers are made of copper and get extremely "HOT". Do not grab hold of the jumper with your hands.
10. Close Gas Vent Valve (BY #1 CYL C.S. ON GAS HEADER).

GENERATION OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

ENGINE OPERATING PROCEDURES
FAIRBANKS MORSE TYPE DLA
STARTING PROCEDURE FOR ENGINE #8, #9, #10, #11, #12

PRE-STARTING ENGINE CHECKS

1. Check Surge Tank Water Level.
2. Check Oil Level in Crankcase.
3. Check Oil Level in Governor and Blower Motor.
4. Check Starting Air Pressure.

STARTING PROCEDURE

1. Reset Voltage Relay (for #8,9,10 Engs only) Auxiliary
Compartment.
2. Crank Force-Fed Lubricators (50 times Each).
If Engine has not run for over one week, crank Force-Fed
Lubricators 75 to 100 turns.
3. Turn on Fuel Pump (#8 Engine only).
4. Turn on Raw Water Pump to Hand Position.
5. Turn on Jacket Water Pump to Hand Position.
6. Turn on Lube Oil Auxiliary Pump to Hand Position.
7. Open Air Start Valve to Engine.
8. Set Governor Load Limit to 8
9. Check Raw Water Flow, Jacket Water, Lube Oil, and Fuel
Pressure. Open Raw Water Valve to Intercooler, 1 turn in warm
weather.

GENERATIONS OPERATIONS MANUAL
ORIGINALLY ISSUED 5/29/85

SECTION III

11. Turn on Exciter Field Motor, 8-10 Engines only (CHECK BEHIND 4160 SWITCHGEAR TO SEE IF MOTOR IS RUNNING).
12. Set Voltmeter Selector to 1-2-3, check Voltage on all three phases.
13. Put Engine Start Handle to "START", after Engine is up to proper RPM, move it back to "RUN". Close air start valve.
14. SET INCOMING VOLTAGE WITH RUNNING VOLTAGE AND HERTZ.
15. Turn off Auxiliary Lube Oil Pump and make sure Engine Driven Pump is supplying pressure.
 - a. Check Outboard Bearing Oil Rings and Blower Oil Pressure.
 - b. Check top of Engine for loose nuts, studs, water, oil, fuel leaks. Brush your hand slightly over all start jumper pipe and also on gas jumper pipe. Excessive heat means valves are burned or leaking.

NOTE: IMPORTANT - THESE JUMPERS ARE MADE OF COPPER AND GET EXTREMELY HOT. DO NOT GRAB HOLD OF THE JUMPER WITH YOUR HANDS.

Normal alarms on 8-10 ENGINES ONLY.

- c. F.O. Level Abnormal - turn on.
- d. Jacket Water Temperature - turn on.
- e. Jacket Water PSI - turn on.
- f. Lube Oil PSI - turn on.
- g. CC Vacuum PSI - turn on.

NOTE: (AN ENGINE IN OPERATION SHOULD NEVER BE LEFT ENTIRELY UNATTENDED).

REVISION DATE JANUARY 27, 1987
PAGE 10

SHUTTING #8-12 ENGINE DOWN

1. Lower Engine Load in accordance with Section Two (2), Engine Loading/Unloading Instructions.
2. Open Generator Main Breaker.
3. Match Incoming and Running Voltage.
4. Set Frequency at 60 hertz.
5. Put Start Handle to "STOP", and turn on Auxiliary Lube Oil Pump.
6. After Engine comes to a complete stop, turn off Auxiliary Lube Oil Pump.
7. Turn off Jacket Water Pump.
8. Turn on Generator Heater.
9. Turn off Raw Water Pump.
10. Turn off Fuel Pump (#8 only) and close Raw Water Valve to Intercooler.

FOR ENGS. #8-10 ONLY

11. F.O. Level abnormal - turn off.
12. Jacket Water temperature - turn off.
13. Jacket Water PSI - turn off.
14. Lube oil PSI - turn off.
15. CC Vacuum PSI - turn off.

Also, run all Oil Pumps, Raw Water Pumps, Jacket Water Pumps, for 10 minutes after Shutdown to remove Latent Engine Heat.

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ENGINE OPERATING PROCEDURES
FAIRBANKS MORSE TYPE OP ENGINES

PRE-STARTING PROCEDURES FOR #13 THRU #17 ENGINES

1. Check Surge Tank Water Level.
2. Check Oil Level in Crankcase.
3. Check Oil in Governor and Outboard Bearing.
4. Check Starting Air Pressure.

LOCAL STARTING #13 THRU #17 ENGINES

1. Turn on Raw Water Pump #1 or #2 on General Electric Motor Control Center. (NOTE: ONLY ONE RAW WATER PUMP IS NEEDED FOR 5 OP ENGINES).
2. Check Control Board to see if Generator Differential Lock-out and Field Breaker are energized. If not, turn Engine Control Power "Off" and Reset.
3. Turn Voltage Regulator Control Switch to the "Off" Position.
4. Turn on Engine Control Power (ON ENGINE CONTROL BOARD MAKE SURE "CONTROL" IS AT ENGINE).
5. Set Governor Load Limit to "8".
6. Prime Fuel System (FUEL PUMP PRIMING HANDLE BEHIND ENGINE CONTROL CABINET) at the same time, Pre-lube Engine for Thirty (30) seconds, then push Engine Start Button until Engine comes up to proper RPM.
7. After Engine is running, check all Water, Fuel Oil, Raw Water, Pressure and Temperatures and check for leaks. Brush your hand slightly over Air Start Jumper Pipe. Excessive heat means valves are burned or leaking. NOTE: IMPORTANT - These jumpers are made of copper and get extremely "HOT". Do not grab hold of the jumper with your hands.
8. Close Gas Vent Valve (BY #1 CYL C.S. ON GAS HEADER).

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TAKING #13 THRU #17 ENGINES OFF DUAL FUEL

1. Put Master Control Switch from "REMOTE" to "LOCAL" Position.
2. Lower Load on Unit to 1000 KW and adjust VARS.
3. Push up on Quick Change Valve, Unit is now on Diesel.
4. Turn Fuel Mode Switch from Dual Fuel to Diesel (ON ENGINE CONTROL BOARD).
5. Open Gas Header Vent Valve (BY #1 CYL C.S. ON GAS HEADER).

TAKING #13 THRU #17 ENGINES OFF LINE

1. Make sure Master Control Switch is in "LOCAL".
2. Lower Engine Load in accordance with Section Two (2), Engine Loading/Unloading Instructions.
3. Open Generator Main Breaker, Unit is now off line.
4. Put handle in Synchronizing Switch and turn on.
5. "Operator" will match GEN Voltmeter with BUS Voltmeter. Turn Voltage Control Mode Switch to "Off" Position. Turn off Synchronizing Switch.

SHUTTING #13 THRU #17 ENGINES DOWN

1. Turn Alarm and Horn Timers on. Push Stop Button (ON ENGINE CONTROL PANEL).
2. Put Governor Load Limit to "0".
3. After Engine comes to a complete stop, turn Control Power Off.
4. Turn Timers off.

NOTE: IMPORTANT

After an O.P. Engine has been shut down, wait 10 minutes, turn on Engine Control Power. Make sure Governor Load Limit is at "0". Push Engine Start Button and Roll Engine 3 to 4 complete Revolutions to get all excessive oil out of upper pistons.

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STARTING PROCEDURES FOR #18 AND #19 ENGINES

1. Open all 20 Compression Cocks on Engine.
2. Open Main Starting Air Valve.
3. Governor Load Limit to "0" Zero.
4. Turn J. W. Pump to Hand Position. Pull Engine Roll Button out and hold - Roll Engine several revolutions and check to make sure no water is coming out of the Compression Cocks. If water is coming out of Compression Cocks, Stop rolling Engine and REPORT it to the Operations Foreman. Engine Oil Pump comes on when you pull Roll Button.
5. Close Main Starting Air Valve.

PRE-START ENGINE CHECKS

1. Close all 20 Compression Cocks.
2. Check Jacket Water Level.
3. Check Lube Oil Level.
4. Check Cooling Tower Level and Valve alignment. Make sure that Feed Water Valve is Open.
5. Check Acid Drum and System. Make sure Valves on their side of PH probe are open.
6. Open Main Fuel Valves at Day Tanks.
7. Put Governor Load Limit at "10" ten. Start/Stop Knob needs to be pulled out AT THE ENGINE.
8. Open Main Starting Air Valve.
9. Set Pump Switches in the following sequence;
 - A. Turn Raw Water Pump to AUTO.
 - B. Turn Fuel Oil Transfer Pump to AUTO.

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- C. Turn Cooling Tower Fan to AUTO.
- D. Turn Fuel Oil Booster Pump to AUTO.
- E. Turn Jacket Water Pump to AUTO.
- F. Select either L. O. Pump 1 or 2 and turn Switch to AUTO.
- G. Turn L.O. Keep Warm Pump Off.
- H. Push Engine Start Button. NOTE - Start Button must be pushed within 10 sec. of turning L. O. Pump to AUTO or System will automatically switch to Pump 2. Should Engine be started in this condition Pump 2 will continue to run no matter where you put the Pump Select Switch until Engine is stopped, All Pumps turned Off and the Start Button Pushed.

Should Engine fail to start the MIS-START MOTOR CONTROLS FUNCTION light will come on. To clear, turn All Pumps Off, Close Main Air Start Valve and Push Start Button. This activates a 2 1/2 minute timer. After Timer times out repeat step 8 to Start Engine.

- I. Pull Fuel Rack Handle Open. After Engine is running, Close Main Air Start Valve. Check all Pressures and Temperatures on Engine. Check Oil circulation on Pedestal Bearing. Check Brushes on Generator Slip Ring. Check top of Engine, Left and Right Banks for Leaks, Broken Bolts, Cable tightness, etc. Make a Visual Inspection of all systems. (4 times a shift)

PUTTING #18 & #19 ON LINE

- 1. Close Engine Lockout Relay.
- 2. Close Generator Lockout Relay.
- 3. Close Generator Field Breaker Control Switch.
- 4. Turn Synchronizing Switch ON.
- 5. Bring Running Voltage up Slowly to Match Incoming Voltage.

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SHUTTING #18 & #19 ENGINE DOWN

1. Lower Load per GENERAL INSTRUCTIONS on Page 2A to 4000 KW and take Unit off Dual Fuel by turning Fuel Selector to DIESEL. Close Main Gas Valve. Engine is now on Diesel.
2. Continue Lowering Load to per Step 1. Let Engine idle a minimum of five minutes prior to opening Generator Breaker.
3. Push Engine Control Stop Button on Breaker Panel or Push Stop Button on Gauge Board or Push Start/Stop Knob in at Engine.
4. Let Pumps run for 5 to 10 minutes to cool all bearings down.
5. Turn Off all Pumps.
6. Turn On L.O. Keep Warm Pump.
7. Close Fuel Supply Valves to Day Tanks.

"EMERGENCY" Switch Over from Gas to Diesel is accomplished by Closing the Main Gas Valve.

#18 & #19 OPERATING PROCEDURES

1. When Engine is Running, walk up on top of Engine and Check both Left and Right Banks for broken bolts, cable tightness and leaks. (4 TIMES A SHIFT)
2. Check Cooling Tower to make sure water is flowing through all water holes on top of tower. Also check Acid Pump and Drum Level. (2 TIMES PER SHIFT)
3. Check Oil Pumps and Heat Exchangers in Basement. (2 TIMES PER SHIFT)
4. Check Fuel Oil Day Tanks. (HOURLY)
5. Check Oil Level in Governor. (2 TIMES PER SHIFT)
6. Check Lube Oil Sump Tank Level when Engine is Logged.
7. Check oil circulation on pedestal bearing slip rings hourly.
8. Make hourly and daily Engine checks per Engine Check List. Engine Operator will be responsible for signing off that all Engine checks have been made during his shift.

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GENERATION OPERATIONS MANUAL
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STARTING #20 AND #21 ENGINES

1. Open Main Fuel Valve to Day Tanks. Make sure Control Mode is in "LOCAL" position (ON SWITCHGEAR).
- 1A. At the Switchgear Panel " Verify the following" - No Flags are indicated on Protection Relays and the Voltage Regulator Control Switch is in the "Off" Position.
2. Turn Jacket Water Pump to Hand Run.
3. Turn I.C.W. Water Pump to Hand Run.
4. Turn F.O. Supply Pump to Hand Run.
5. Turn Crank Case Vacuum Pump to Hand Run.
6. Turn AUX L.O. Pump to Hand Run. Note: Check Oil Level in Aux. L.O. Pump Drive Units before starting.
7. Turn Fan #1 J.W. Radiator to auto. NOTE: Check Oil in Radiator Fan Drive Units before starting.
8. Turn Fan #1 I.C.W. Radiator to Auto.
9. Turn F.O. Transfer Pump to Auto.
10. Turn Rocker L.O. Pump to Hand Run.
11. Turn Fan #2 J.W. Radiator to Auto.
12. Turn Fan #2 I.C.W. Radiator to Auto.
13. Open Main Air Start Supply to Engine.
14. Set Governor Load Limit to 10.
15. Check all Water, Oil, Fuel, Raw Water Pressure and Temperature.
16. Wait until Lube Oil Ppressure at Lube Oil Pump discharge is over 60 lbs. and Engine Header is over 60 lbs. (NOTE BEFORE STARTING UNITS).
17. Double check everything out before starting.

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18. Turn Engine Start Switch to "Start" and hold until the first ignitions take place, release Start Switch, shutting off starting air.
19. Close Main Air Start Supply Valve to engine.
20. Check Outboard Bearing, Turbo's Rocker Lube Oil Level, Raw Water, Jacket Water, Fuel, Oil Level in Gear Boxes on Fan's, Pressure and Level Temperatures. Brush your hand slightly over Air Start Jumper Pipe. Excessive heat means valves are burned or leaking. NOTE: IMPORTANT - These jumpers are made of copper and get extremely "HOT". Do not grab hold of the jumpers with your hand.
21. Turn AUX L.O. Pump to AUTO, after Oil Inlet Header Pressure reaches 60 PSI.
22. Turn Rocker L.O. pump to AUTO.
23. Raise Engine speed to 514 RPM. Unit is ready to go on line (AFTER PRESSURE CIRCUIT ARMED LIGHT IS LIT).

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SHUTTING #20 AND #21 ENGINES DOWN

1. Turn AUX L.O. pump to hand run.
2. Turn rocker L.O. pump to hand run.
3. Push Stop Button on Engine Control Panel.

After Engine comes to a complete stop:

"Run all oil pumps, jacket water pumps, for 10 minutes after shutdown to remove latent engine heat."

4. Turn off J.W. Pump.
5. Turn off I.C.W. Pump.
6. Turn off F.O. Supply Pump.
7. Turn off C. CASE Vacuum Pump.
8. Turn off AUX L.O. Pump.
9. Turn off Fan #1 J.W. Radiator.
10. Turn off Fan #1 I.C.W. Radiator.
11. Turn off F.O. Transfer Pump.
12. Turn off Fan #2 J.W. Radiator.
13. Turn off Fan #2 I.C.W. Radiator.
14. Close Main Fuel Valve to Day Tanks.

Attachment D

ADDITIONAL APPLICABLE REQUIREMENTS

Additional applicable requirements for units 2, 3, and 8 through 21 (002, 003, 008-021) and the associated compliance methods, recordkeeping, and monitoring requirements are set forth in the current operating permit, attached.

METROPOLITAN DADE COUNTY, FLORIDA



**AIR EMISSIONS
ANNUAL OPERATING PERMIT**

ENVIRONMENTAL RESOURCES MANAGEMENT
33 S.W. 2nd AVENUE
MIAMI, FLORIDA 33130-1540
(305) 372-8789

PERMITTEE:

Mr. James L. Swarts
GORDON W. IVBY MUN. POWER PLANT
675 N FLAGLER AVE
HOMESTEAD, FL 33030

PAGE 1 OF 1

PERMIT No.: AP-00145 (A3)/MSP-00541-93 08
SOURCE NAME: GORDON W. IVBY MUN. POWER PLANT
LOCATION: 675 N FLAGLER AVE
HOMESTEAD, FL 33030

DESCRIPTION OF FACILITY/EQUIPMENT:

POWER GENERATING FACILITY

Eighteen internal combustion engines for generating electric power using both, natural gas and #2 fuel oil.

SPECIFIC CONDITIONS:

- 01 No visible emissions equal to or greater than 20% opacity permitted from this facility.
- 02 No objectionable odor is allowed.

GENERAL CONDITIONS:

- 03 The applicant, by acceptance of this document, agrees to operate and maintain the subject operation so as to comply with the requirements and standards of Chapter 24 of the Code of Metropolitan Dade County.
- 04 If for any reason, the applicant does not comply with or will be unable to comply with any condition or limitation specified on this document the applicant shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps taken to reduce, eliminate, and prevent recurrence of the non-compliance. The applicant 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 document.
- 05 As provided in Section 24-30 of the Code of Metropolitan Dade County, the prior written approval of the Department of Environmental Resources Management shall be obtained for any alteration to this facility.
- 06 The issuance of this document 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. Nor does it relieve the applicant from liability for harm or injury to human health or welfare or property.
- 07 This document is required to be posted in a conspicuous location at the pollution control facility site during the entire period of operation.
- 08 This document is not transferable. Upon sale or legal transfer of the property or facility covered by this document, the applicant shall notify the department within thirty(30) days. The new owner must apply for a permit within thirty (30) days. The applicant shall be liable for any non-compliance of the source until the transferee applies for and receives a transfer of this document.
- 09 The applicant, by acceptance of this document, specifically agrees to allow access to the named source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this document and department rules.
- 10 This document does not indicate a waiver of or approval of any other department permit that may be required for other aspects of this facility.

Section Approval:

E. Anderson

- 11 This document does not constitute an approval by DERM or certification that the applicant is in compliance with applicable laws, ordinances, rules or regulations. The applicant acknowledges that separate enforcement actions may be initiated by DERM and that this document does not constitute compliance with orders issued in conjunction with enforcement actions for correction of violations.
- 12 Failure to comply with any condition of this document, or the standards as set forth in Chapter 24, Code of Metropolitan Dade County may subject the applicant to the penalty provisions of said Chapter including civil penalties up to \$25,000 per day per offense and/or criminal penalties of \$500 per day and/or sixty (60) days in jail.

Application Contact

1. Name and Title of Application Contact : Name : James L. Swartz Title : Director of Utilities
2. Application Contact Mailing Address : Organization/Firm : Gordon W Ivey Municipal Power Plant Street Address : 675 N. Flagler Ave. City : Homestead State : FL Zip Code : 33030-____
3. Application Contact Telephone Numbers : Telephone : (305)247-1801 Fax : (305)247-4008

Application Comment

This application contains certain information and data on unregulated units which was included prior to the FDEP's permit simplification changes, but is no longer required. Due to the cumbersome nature of the electronic software (ELSA) and time constraints, this information was not deleted. The information is not displayed in the ELSA software, but is displayed when the application forms are printed out. Such information has not been updated or verified, may be inaccurate, and should not be reviewed or relied upon in any way.

Additionally, note that this application is submitted using ELSA version 1.3a because it was finalized prior to the FDEP's decision not to release this version. Section III G, Emissions Unit Pollutants, does not print out correctly and information for pollutants from one specific unit may be printed out in the table for another unit. Further, there may be other print out problems caused by ELSA software "bugs".

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Name, Location, and Type

1. Facility Owner or Operator : Homestead City Utilities			
2. Facility Name : G. W. Ivey Power Plant			
3. Facility Identification Number : 0250013			
4. Facility Location Information :			
Homestead City Utilities G.W. Ivey Power Plant 660 NE 1 Road Homestead, Florida 33030 Dade County Airs ID:0250013			
Facility Address : 675 N. Flagger Ave. City : Homestead County : Dade			
Zip Code : 33030-____			
5. Facility UTM Coordinates :			
Zone : 17	East (km) : 553.80	North (km) : 2,817.30	
6. Facility Latitude/Longitude :			
Latitude (DD/MM/SS) : 25 28 24		Longitude (DD/MM/SS) : 80 27 53	
7. Governmental Facility Code :	8. Facility Status Code :	9. Relocatable Facility?	10. Facility Major Group SIC Code :
4	A	N	49
11. Applicant Comment :			

DEP Facility Comment :

Facility SIC Codes

Facility SIC Codes :

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Application Worksheet

Owner :	James L. Swartz		
City :	Homestead		
County :	Dade		
Status :	A	Major Group SIC :	49
AOR Required?		Ozone SIP Facility?	
Title V?	Y		
NSPS?	N		
NESHAP?	N		

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR RESOURCES MANAGEMENT
APPLICATION FOR AIR PERMIT - LONG FORM**

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

Homestead City Utilities
G.W. Ivey Power Plant
660 NE 1 Road
Homestead, Florida 33030
Dade County
Airs ID:0250013

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : James L. Swartz
Title : Director of Utilities

2. Owner or Authorized Representative or Responsible Official Mailing Address :

Organization/Firm : City of Homestead
Street Address : 675 N. Flagler Ave.
City : Homestead
State : FL Zip Code : 33030-____

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (305)247-1801 Fax : (305)247-4008

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the facility (non-Title V source) addressed in this Application for Air Permit or the responsible official, as defined in Chapter 62-213, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described in this application so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. If the purpose of this application is to obtain an air operation permit or operation permit revision for one or more emissions units which have undergone construction or modification, I certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Signature

Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit
002	2070 kW Diesel Generator #2
003	2070 kW Diesel Generator #3
008	2500 kW Diesel Generator #8
009	2500 kW Diesel Generator #9
010	2500 kW Diesel Generator #10
011	3270 kW Diesel Generator #11
012	3270 kW Diesel Generator #12

Scope of Application

Emissions Unit ID	Description of Emissions Unit
013	2070 kW Diesel Generator #13
014	2070 kW Diesel Generator #14
015	2070 kW Diesel Generator #15
016	2070 kW Diesel Generator #16
017	2070 kW Diesel Generator #17
018	8800 kW Diesel Generator #18
019	8800 kW Diesel Generator #19

Scope of Application

Emissions Unit ID	Description of Emissions Unit
020	6485 kW Diesel Generator #20
021	6485 kW Diesel Generator #21
No Id	(2) Cooling Towers for Unit Nos. 18 and 19

Purpose of Application and Category

Category I : All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain :

Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number :

Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed :

Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number :

Operation permit to be revised :

Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application.

Operation permit to be revised/corrected :

Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit.

Operation permit to be revised :

Reason for revision :

Category II : All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain :

- Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s) :

- Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed :

- Air operation permit revision for a synthetic non-Title V source.

Operation permit to be revised :

Reason for revision :

Category III : All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain :

- Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any :

- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s) :

- Air construction permit for one or more existing, but unpermitted, emissions units.

Application Processing Fee

Attached - Amount : _____ NA

Construction/Modification Information

1. Description of Proposed Project or Alterations :
2. Projected or Actual Date of Commencement of Construction :
3. Projected Date of Completion of Construction :

Application Processing Fee

Attached - Amount : _____ NA

Construction/Modification Information

1. Description of Proposed Project or Alterations :
2. Projected or Actual Date of Commencement of Construction :
3. Projected Date of Completion of Construction :

