

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519 - 120 Sams Ave.  
New Smyrna Beach, Florida 32070-0519  
(904) 427-1361



RECEIVED

MAR 12 1990

DER-BAQM

March 7, 1990

DEPARTMENT OF ENVIRONMENTAL  
REGULATION  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

ATTN: C. H. Fancy, P.E.  
Deputy Chief, Bureau of Air Quality Mgmt.

SUBJECT: MODIFICATION OF CONSTRUCTION PERMIT AC64-43484 and  
OPERATING PERMIT A064-130061

Dear Clair:

Due to an error on my part, I failed to include the Construction Permit number in my letter of December 15, 1989. The result was Permits for our Swoope #3 and Swoope #4 units were modified, but not the Permit for Swoope #2. I would like the same modification for the subject Construction Permit; that is to change the specific conditions to utilize Methods 7E and 3A for the annual NOx Test.

I have attached copies of relevant correspondence for your information and convenience.

Sincerely,

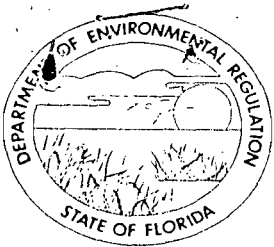
A handwritten signature in cursive script that reads "Ed Berrier".

Ed Berrier, Chief  
Generation Division

ELB/ms

cc: Pete Korelich  
Lloyd Sorensen  
Allen Zahm

*3-12  
Allen Zahm  
is modifying  
AC04-43484 -  
still send us  
a copy of letter -*



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

## NOTICE OF PERMIT

City of New Smyrna Beach  
Utilities Commission  
Post Office Box 519  
New Smyrna Beach, Florida 32070-0519

Attention: Ed Berrier, Chief  
Generation Division

Volusia County - AP  
Swoope Generating Units No. 3 and 4

Dear Mr. Berrier:

Enclosed is Permit Number A064-152684, dated 2-26-95, to change the permit conditions on the above referenced sources, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to 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.


**BEST AVAILABLE COPY**

This Order (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 paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

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 Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cm* 

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

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

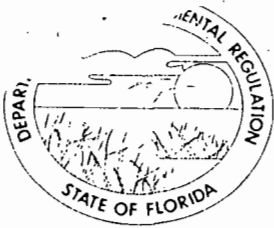
 2/26/90  
Clerk Date

*ADB*  
AA/jtj *97*

Copies furnished to:  
Barry Appleby

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2-26-90 to the listed persons, by D Jones.



*Florida Department of Environmental Regulation*

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

February 22, 1990

City of New Smyrna Beach  
Utilities Commission  
Post Office Box 519  
New Smyrna Beach, Florida 32070-0519

Attention: Ed Berrier, Chief  
Generation Division

Volusia County - AP  
Swoope Generating Units No. 3 and 4  
Permit No. AO64-152684  
Change of Conditions

Dear Mr. Berrier:

The conditions are changed as follows:

**CONDITION**

Permit Page No. 4, Specific Condition No. 8

**FROM**

...maximum NO<sub>x</sub> concentration of 690 ppmv...

**TO**

...maximum NO<sub>x</sub> concentration of 620 ppmv...

**CONDITION**

Permit Page No. 5, Specific Condition No. 11

**FROM**

...with the NO<sub>x</sub> limitation in accordance with EPA Method 7 at yearly intervals from the date of January 20, 1988.

**TO**

...with the NO<sub>x</sub> limitation in accordance with EPA Method 7 or 7E and for oxygen in accordance with EPA Methods 3 or 3A, or other methods as approved by the Department, at yearly intervals from the date of January 20, 1988.

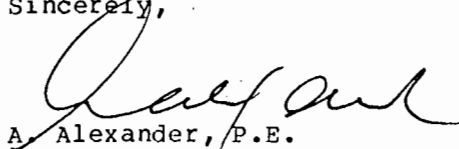
City of New Smyrna Beach  
Utilities Commission  
A064-152684  
Change of Conditions  
Page Two

All other conditions remain the same.

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

Sincerely,

cmc

  
A. Alexander, P.E.  
Deputy Assistant Secretary

ADY  
AA:jtj

cc: Barry Appleby



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

December 22, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Ed L. Berrier, Chief  
Utilities Commission, City of New Smyrna Beach  
P. O. Box 519  
120 Sams Avenue  
New Smyrna Beach, Florida 32070-0519

Dear Mr. Berrier:

Re: Amendment of Construction Permits

The Department is in receipt of your December 15, 1989 letter requesting the modification of permits to authorize the use of other approved test methods to measure the emissions of the units. These requests are acceptable and Utilities Commission - New Smyrna Beach construction permits are amended as follows.

Construction Permit No. AC 64-57578

Specific Condition No. 3 is revised to:

3. Nitrogen oxides emissions from the Unit No. 3 shall be limited to 620 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity using EPA Methods 7 or 7E for nitrogen oxides and 3 or 3A for oxygen or other methods as approved by the Department.

Construction Permit No. AC 64-57580

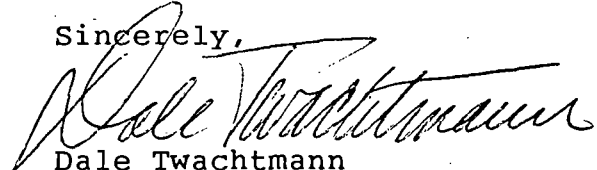
Specific Condition No. 3 is revised to:

3. Nitrogen oxides emissions from the Unit No. 4 shall be limited to 625 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity using EPA Methods 7 or 7E for nitrogen oxides and 3 or 3A for oxygen or other methods as approved by the Department.

Mr. Ed L. Berrier  
Page 2  
December 22, 1989

A copy of this letter must be filed with each of the permits and shall become part of those permits.

Sincerely,



Dale Twachtmann  
Secretary

Attachment:  
U C December 15, 1989 letter.

DT/plm

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519 - 129 Sansé Ave.  
New Smyrna Beach, Florida 32070-0519  
(904) 427-1361



December 15, 1989

RECEIVED

DEC 18 1989

Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

DER-BAQM

ATTN: C. H. FANCY, P.E.  
Deputy Chief, Bureau of Air Quality Mgmt.

SUBJECT: MODIFICATION OF CONSTRUCTION PERMITS  
AC64-57578, AD57580 and Operating Permits  
A064-152684 and A064-130061

Dear Clair:

Please see attached copy of the letter of December 6, 1989 to Allen Zahm. Allen phoned and said that to get these modifications would require modification of construction permits before the operating permits could be changed.

Please let me know if this can be done in time for the January 17 test date. If not, we can proceed with the original test methods and hope for changes for 1991. Thank you for your help.

Sincerely,

Ed Berrier, Chief  
Generation Division

ELB/ms

cc: Pete Korelich  
Lloyd Sorensen  
Betty Schuerer  
Pete Burnette  
Allen Zahm  
Him Pennington



# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519 - 120 Sams Ave.  
New Smyrna Beach, Florida 32070-0519  
(904) 427-1361



December 6, 1989

Mr. Allen Zahm  
DEPARTMENT OF ENVIRONMENTAL  
REGULATION  
3319 Maguire Blvd., Suite 232  
Orlando, FL 32803

SUBJECT: MODIFICATION OF PERMITS A064-152684 and A064-130061

Dear Allen:

In a telephone conversation with Jim Pennington of the Tallahassee DER Office on December 5, 1989, he said that as of July 15, 1989 Method 7E for NO<sub>x</sub> and Method 3A for oxygen had been adopted by the State.

I would like to request modification of the specific conditions on the subject permits so we can utilize Methods 7E and 3A for our annual test, scheduled for January 17, 1990.

The units to be tested are dual fuel internal combustion engines, #2, #3 and #4 at our Swoope Generation Station.

Sincerely,

Ed Berrier, Chief  
Generation Division

ELB/mls

cc: Pete Korelich  
Lloyd Sorensen  
Pete Burnette (Air Consulting & Eng.)  
Betty Schuerer



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

December 22, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED.

Mr. Ed L. Berrier, Chief  
Utilities Commission, City of New Smyrna Beach  
P. O. Box 519  
120 Sams Avenue  
New Smyrna Beach, Florida 32070-0519

Dear Mr. Berrier:

Re: Amendment of Construction Permits

The Department is in receipt of your December 15, 1989 letter requesting the modification of permits to authorize the use of other approved test methods to measure the emissions of the units. These requests are acceptable and Utilities Commission - New Smyrna Beach construction permits are amended as follows.

Construction Permit No. AC 64-57578

Specific Condition No. 3 is revised to:

3. Nitrogen oxides emissions from the Unit No. 3 shall be limited to 620 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity using EPA Methods 7 or 7E for nitrogen oxides and 3 or 3A for oxygen or other methods as approved by the Department.

Construction Permit No. AC 64-57580


Specific Condition No. 3 is revised to:

3. Nitrogen oxides emissions from the Unit No. 4 shall be limited to 625 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity using EPA Methods 7 or 7E for nitrogen oxides and 3 or 3A for oxygen or other methods as approved by the Department.

Mr. Ed L. Berrier  
Page 2  
December 22, 1989

A copy of this letter must be filed with each of the permits and shall become part of those permits.

Sincerely,



Dale Twachtmann  
Secretary

Attachment:  
U C December 15, 1989 letter.

DT/plm

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519 - 120 Sams Ave.  
New Smyrna Beach, Florida 32070-0519  
(904) 427-1361



December 15, 1989

RECEIVED

DEC 18 1989

Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

DER-BAQM

ATTN: C. H. FANCY, P.E.  
Deputy Chief, Bureau of Air Quality Mgmt.

SUBJECT: MODIFICATION OF CONSTRUCTION PERMITS  
AC64-57578, AD57580 and Operating Permits  
A064-152684 and A064-130061

Dear Clair:

Please see attached copy of the latter of December 6, 1989 to Allen Zahm. Allen phoned and said that to get these modifications would require modification of construction permits before the operating permits could be changed.

Please let me know if this can be done in time for the January 17 test date. If not, we can proceed with the original test methods and hope for changes for 1991. Thank you for your help.

Sincerely,

Ed Berrier, Chief  
Generation Division

ELB/ms

cc: Pete Korelich  
Lloyd Sorensen  
Betty Schuerer  
Pete Burnette  
Allen Zahm  
Him Pennington

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519 - 120 Sams Ave.  
New Smyrna Beach, Florida 32070-0519  
(904) 427-1361



December 6, 1989

Mr. Allen Zahm  
DEPARTMENT OF ENVIRONMENTAL  
REGULATION  
3319 Maguire Blvd., Suite 232  
Orlando, FL 32803

SUBJECT: MODIFICATION OF PERMITS A064-152684 and A064-130061

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The units to be tested are dual fuel internal combustion engines, #2, #3 and #4 at our Swoope Generation Station.

Sincerely,

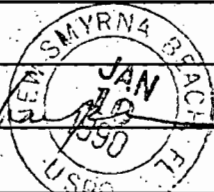
Ed Berrier, Chief  
Generation Division

ELB/mls

cc: Pete Korelich  
Lloyd Sorensen  
Pete Burnette (Air Consulting & Eng.)  
Betty Schuerer

**SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.**  
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

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

3. Article Addressed to: Mr. Ed L. Berrier, Chief Utilities Commission City of New Smyrna Beach P. O. Box 519 120 Sams Avenue New Smyrna Beach, FL 32070-0519	4. Article Number P 938 762 798
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent <i>Robert A. [Signature]</i>	
7. Date of Delivery 	

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

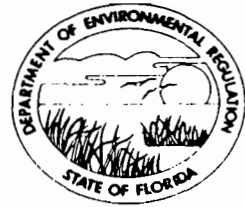
P 938 762 798

RECEIPT FOR CERTIFIED MAIL

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

Sent to	
Mr. Ed L. Berrier, New Smyrna	
Street and No. Beach Utilities	
P.O. Box 519	
P.O. State and ZIP Code	
New Smyrna Beach, FL 32070-051	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	
Mailed: 1-5-90	
Permit: AC 64-57578, -80	

PS Form 3800, June 1985



# Interoffice Memorandum

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

CENTRAL DISTRICT

OCD-AP-89-0768

TO: Clair Fancy, Bureau Chief

THROUGH: Charles Collins, DAPA *noted amc*

FROM: Alan D. Zahm, Supervisor, Permitting Section *ADZ*

DATE: December 18, 1989

SUBJECT: Modification of Operating Permits of a Major Facility  
New Smyrna Beach Swoope Generation Station

Our office has been requested to modify the compliance test methods for operating permits A064-152684 and A064-130061 of the above referenced source. Based upon my understanding of the EPA requirement to have the construction permit modified for enforceability, I requested Mr. Ed Berrier of New Smyrna Beach Utilities Commission to ask for the change from the Tallahassee Air Section.

The proposed changes are from Method 7 to Method 7E and Method 3 to Method 3A. Our interpretation of the rule change for Fossil Fuel Steam Generators 17-2.600(5)(a) is that the natural gas fired plant is covered by this section and the Methods 7E and 3A can be utilized. Therefore, the office intends to grant the request to change the operating permit after the construction permit is changed.

This memo is to inform you of Mr. Berrier's intention and also to give you the opportunity to inform us of any misunderstandings on this procedure.

AZ:j

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO  
ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	Initial
<i>Clair Toney, Bureau Chief</i>	Date
2. <i>Air Permitting Section</i>	Initial
	Date
3. <i>T T</i>	Initial
	Date
4. <i>Tall</i>	Initial
	Date

REMARKS:

**RECEIVED**  
DEC 20 1989  
DER-BAQM

INFORMATION	
<input type="checkbox"/>	Review & Return
<input type="checkbox"/>	Review & File
<input type="checkbox"/>	Initial & Forward
<input type="checkbox"/>	
DISPOSITION	
<input type="checkbox"/>	Review & Respond
<input type="checkbox"/>	Prepare Response
<input type="checkbox"/>	For My Signature
<input type="checkbox"/>	For Your Signature
<input type="checkbox"/>	Let's Discuss
<input type="checkbox"/>	Set Up Meeting
<input type="checkbox"/>	Investigate & Report
<input type="checkbox"/>	Initial & Forward
<input type="checkbox"/>	Distribute
<input type="checkbox"/>	Concurrence
<input type="checkbox"/>	For Processing
<input type="checkbox"/>	Initial & Return

FROM: *C. Collins  
Air Program Adm  
Central District*

DATE *12-18-89*  
PHONE





State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

# Interoffice Memorandum

TO: Dale Twachtmann

for

FROM: Steve Smallwood 

DATE: December 22, 1989

SUBJ: Amendment of Construction Permits  
Utilities Commission, City of New Smyrna Beach

Attached for your approval and signature is a letter that will amend two permits issued to the above mentioned company for dual fuel internal combustion engines at their Swoope Generation Station. The amendments will authorize the use of other approved test methods to measure the emissions from the units.

SS/plm

RECEIVED

JAN 02 1990

DER - BAQM

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519 - 120 Sams Ave.  
New Smyrna Beach, Florida 32070-0519  
(904) 427-1361



December 15, 1989

RECEIVED

DEC 18 1989

DER-BAQM

Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

ATTN: C. H. FANCY, P.E.  
Deputy Chief, Bureau of Air Quality Mgmt.

SUBJECT: MODIFICATION OF CONSTRUCTION PERMITS  
AC64-57578, AD57580 and Operating Permits  
A064-152684 and A064-130061

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Sincerely,

*E. P. Berrier*

Ed Berrier, Chief  
Generation Division

ELB/ms

cc: Pete Korelich  
Lloyd Sorensen  
Betty Schuerer  
Pete Burnette  
Allen Zahm  
Him Pennington

*Clair Petty 12/19*  
*Jim Pennington*  
*said he would*  
*handle this*

*Okay*  
*Patty*  
*Clair*

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519 - 120 Sams Ave.  
New Smyrna Beach, Florida 32070-0519  
(904) 427-1361



December 6, 1989

Mr. Allen Zahm  
DEPARTMENT OF ENVIRONMENTAL  
REGULATION  
3319 Maguire Blvd., Suite 232  
Orlando, FL 32803

SUBJECT: MODIFICATION OF PERMITS A064-152684 and A064-130061

Dear Allen:

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Sincerely,

Ed Berrier, Chief  
Generation Division

ELB/mls

cc: Pete Korelich  
Lloyd Sorensen  
Pete Burnette (Air Consulting & Eng.)  
Betty Schuerer

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

October 5, 1982

Mr. P. A. Korelich, P.E.  
Utilities Commission  
City of New Smyrna Beach  
P. O. Box 519  
New Smyrna Beach, Florida 32069

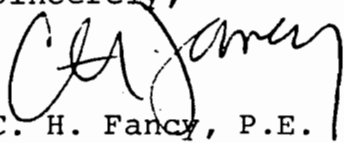
Dear Mr. Korelich:

RE: Final Determination - City of New Smyrna Beach  
Utilities Commission, Swoope Units 3 and 4,  
Application for State and Federal PSD Permits  
(AC 64-57578, AC 64-57580, PSD-FL-089)

Enclosed please find one copy of the referenced Final Determination. State Permit Numbers AC 64-57578 and AC 64-57580 are hereby issued as of September 30, 1982, pursuant to Section 403, Florida Statutes. Final approval of the Federal PSD permit, which is incorporated with the state permit, is contingent upon review and acceptance of the permit conditions by the Environmental Protection Agency Region IV office in Atlanta. Questions concerning final issuance of the Federal permit should be directed to Mr. James T. Wilburn of the EPA office.

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

Sincerely,

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

CHF/pa

cc: James T. Wilburn, EPA Region IV  
Charles Collins, DER St. Johns River District  
David A. Buff, Environmental Science and Engineering

P16 7682429

RECEIPT FOR CERTIFIED MAIL

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

SENT TO		P. A. Korelich, P.E.
STREET AND NO.		P. O. Box 519
P.O., STATE AND ZIP CODE		New Smyrna Beach, FL
POSTAGE		\$
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	c
	SPECIAL DELIVERY	c
	RESTRICTED DELIVERY	c
	OPTIONAL SERVICES	
	RETURN RECEIPT SERVICE	
	SHOW TO WHOM AND DATE DELIVERED	c
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES		\$
POSTMARK OR DATE		10/6/82

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1978

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

1. The following service is requested (check one.)  
 Show to whom and date delivered. \_\_\_\_\_ c  
 Show to whom, date and address of delivery. \_\_\_\_\_ c  
 RESTRICTED DELIVERY  
 Show to whom and date delivered. \_\_\_\_\_ c  
 RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery. \$ \_\_\_\_\_

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:  
 Mr. P. A. Korelich, P.E.  
 P. O. Box 519  
 New Smyrna Beach, FL 32069

3. ARTICLE DESCRIPTION:  
 REGISTERED NO. CERTIFIED NO. INSURED NO.  
 7682429

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent  
*P. A. Korelich*

4. DATE OF DELIVERY

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: \_\_\_\_\_ CLERK'S INITIALS

BEACH POSTMARK  
 NEW SMYRNA BEACH, FL  
 10/6/82  
 USPO

☆SPO : 1979-300-459

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

Final Determination

Utilities Commission  
City of New Smyrna Beach  
Volusia County, Florida  
Swoope Units 3 and 4, Gas Diesel

Permit Numbers

State: AC 64-57578  
AC 64-57580

Federal: PSD-FL-089

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

September 27, 1982

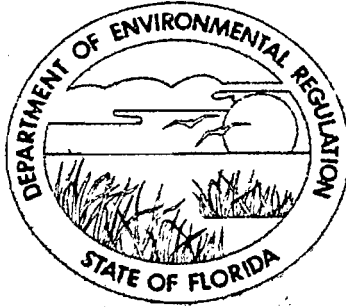
Response to Public Comment

Utilities Commission  
City of New Smyrna Beach

The Utilities Commission's Construction Permit applications for installation of two gas diesel units at the existing Swoope Generation Station in New Smyrna Beach have been reviewed by FDER. Public Notice of the Department's Intent to Issue was published in the New Smyrna Beach News and Observer on August 27, 1982. Copies of the preliminary determination were available for public inspection at Brannon Memorial Library in the city, the FDER's St. Johns River District office and the Bureau of Air Quality Management.

There were no comments from the public as a result of the public notice period.

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



STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL REGULATION

CONSTRUCTION  
PERMIT

NO. AC 64-57578

UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH  
UNIT 3, GAS DIESEL

DATE OF ISSUANCE

September 30, 1982

DATE OF EXPIRATION

JUNE 30, 1983

VICTORIA J. TSCHINKEL  
SECRETARY



STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
 GOVERNOR

VICTORIA J. TSCHINKEL  
 SECRETARY

APPLICANT: Utilities Commission  
 City of New Smyrna Beach  
 P. O. Box 519  
 New Smyrna Beach, Florida 32069

PERMIT/CERTIFICATION  
 NO. AC 64-57578

COUNTY: Volusia

PROJECT: Swoope Unit #3  
 Gas Diesel

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2 and 17-4, 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:

For the installation of a 2050 kw diesel generating unit to be located at the existing Swoope plant site in the City of New Smyrna Beach, Volusia County, Florida. The UTM coordinates are 505.8 km East and 3214.8 km North.

The construction shall be in accordance with the attached permit application, plans and documents except as otherwise noted on page 3, Specific Conditions.

Attachments:

1. Application to Construct Air Pollution Source, DER Form 17-2.122(16), received on June 28, 1982.
2. Best Available Control Technology (BACT) Determination dated August 18, 1982.

PERMIT NO.: AC 64-57578  
APPLICANT: Utilities Commission

**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 64-57578  
APPLICANT: Utilities Commission

SPECIFIC CONDITIONS:

1. The proposed unit shall be constructed in accordance with the capacities and specifications stated in the application and additional information supplied by the applicant.
2. Sulfur content of the fuel oil fired in the proposed gas diesel unit shall be limited to 0.3%.
3. Nitrogen oxides emissions from the Unit No. 3 shall be limited to 620 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity.
4. The 70% capacity factor restriction of Swoope Unit No. 2 shall be eliminated. The new NO<sub>x</sub> emission limit, which is regulated by the attached BACT determination, shall be 690 ppmv corrected to 15% oxygen on a dry basis.

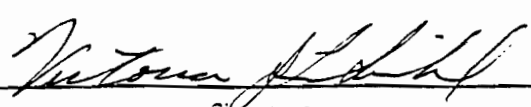
PERMIT NO.: AC 64-57578  
APPLICANT: Utilities Commission

Expiration Date: June 30, 1983

           Pages Attached.

Issued this 30 day of September, 1983.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

  
Signature



STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL REGULATION

CONSTRUCTION  
PERMIT

NO. AC 64-57580

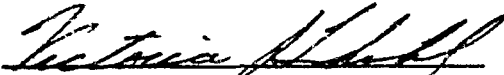
UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH  
UNIT 4, GAS DIESEL

DATE OF ISSUANCE:

September 30, 1982

DATE OF EXPIRATION

JUNE 30, 1983

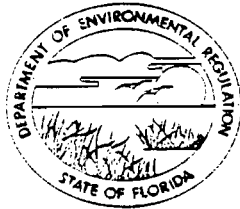


VICTORIA J. TSCHINKEL

SECRETARY

STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
 GOVERNOR  
 VICTORIA J. TSCHINKEL  
 SECRETARY

APPLICANT: Utilities Commission  
 City of New Smyrna Beach  
 P. O. Box 519  
 New Smyrna Beach, Florida 32069

PERMIT/CERTIFICATION  
 NO. AC 64-57580

COUNTY: Volusia

PROJECT: Swoope Unit #4  
 Gas Diesel

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2 and 17-4, 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:

For the installation of a 2275 kw diesel generating unit to be located at the existing Swoope plant site in the City of New Smyrna Beach, Volusia County, Florida. The UTM coordinates are 505.8 km East and 3214.8 km North.

The construction shall be in accordance with the attached permit application, plans and documents except as otherwise noted on page 3, Specific Conditions.

Attachments:

1. Application to Construct Air Pollution Source, DER Form 17-1.122(16), received on June 28, 1982.
2. Best Available Control Technology (BACT) Determination dated August 18, 1982.

PERMIT NO.: AC 64-57580  
APPLICANT: Utilities Commission

**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 64-57580  
APPLICANT: Utilities Commission

SPECIFIC CONDITIONS:

1. The proposed unit shall be constructed in accordance with the capacities and specifications stated in the application and additional information supplied by the applicant.
2. Sulfur content of the fuel oil fired in the proposed gas diesel unit shall be limited to 0.3%.
3. Nitrogen oxides emissions from the unit shall be limited to 625 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity.



BEST AVAILABLE COPY

PERMIT NO.: AC 64-57580  
APPLICANT: Utilities Commission

Expiration Date: June 30, 1983

Issued this 30 day of September, 1982

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

           Pages Attached.

  
Signature

Final Determination  
(PSD-FL-089)

Utilities Commission  
City of New Smyrna Beach

The preceding State Final Determinations are adopted by reference for the federal permit, PSD-FL-089.

Specific Conditions listed in the State permits, AC 64-57578 and AC 64-57580, are adopted as specific conditions for the federal permit, PSD-FL-089, for this source.

The attached General Conditions are also made a part of the federal permit PSD-FL-089 for this source.

Attachment: General Conditions (federal)

## GENERAL CONDITIONS

1. The permittee shall notify the permitting authority in writing of the beginning of construction of the permitted source within 30 days of such action and the estimated date of start-up of operation.
2. The permittee shall notify the permitting authority in writing of the actual start-up of the permitted source within 30 days of such action and the estimated date of demonstration of compliance as required in the specific conditions.
3. Each emission point for which an emission test method is established in this permit shall be tested in order to determine compliance with the emission limitations contained herein within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up of the permitted source. The permittee shall notify the permitting authority of the scheduled date of compliance testing at least thirty (30) days in advance of such test. Compliance test results shall be submitted to the permitting authority within forty-five (45) days after the complete testing. The permittee shall provide (1) sampling ports adequate for test methods applicable to such facility, (2) safe sampling platforms, (3) safe access to sampling platforms, and (4) utilities for sampling and testing equipment.
4. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
5. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall immediately notify the State District Manager by telephone and provide the District Office and the permitting authority with the following information in writing within four (4) days of such conditions:
  - (a) description for noncomplying emission(s),
  - (b) cause of noncompliance,
  - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,

(d) steps taken by the permittee to reduce and eliminate the noncomplying emission,

and

(e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of this report does not constitute a waiver of the emission limitations contained within this permit.

6. Any change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that will result in new or increased emissions must be reported to the permitting authority. If appropriate, modifications to the permit may then be made by the permitting authority to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein.
7. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit by letter and forward a copy of such letter to the permitting authority.
8. The permittee shall allow representatives of the State environmental control agency or representatives of the Environmental Protection Agency, upon the presentation of credentials:
  - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
  - (b) to have access to any copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Act;
  - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;

(d) to sample at reasonable times any emission of pollutants;

and

(e) to perform at reasonable times an operation and maintenance inspection of the permitted source.

9. All correspondence required to be submitted to this permit to the permitting agency shall be mailed to:

Mr. James T. Wilburn  
Chief, Air Management Branch  
Air & Waste Management Division  
U.S. EPA, Region IV  
345 Courtland Street, NE  
Atlanta, GA 30365

10. The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

The emission of any pollutant more frequently or at a level in excess of that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION  
CITY OF NEW SMYRNA BEACH  
VOLUSIA COUNTY

The City of New Smyrna Beach plans to increase electric power generation capacity an additional 4.33 megawatts. Two generators, each driven by a dual fuel twelve cylinder diesel engine, are to be installed at the Swoope generating station. The engines will use natural gas and No. 2 distillate oil as fuel.

The new installations identified as Swoope No. 3 and Swoope No. 4 will have a maximum engine heat input of 19.2 and 21.2 million Btu per hour, respectively. Both units are scheduled to operate 8760 hours per year.

Swoope No. 2, a similar existing 910 kilowatt unit is limited by permit conditions to operate at 70 percent of full load (AC 64-43484). The applicant has requested this permit condition be changed to allow unrestricted operation.

Air Contaminants Summary: (tons per year)

<u>Source</u>	<u>PM</u>	<u>SO<sub>2</sub></u>	<u>CO</u>	<u>NO<sub>x</sub></u>	<u>HC</u>
No. 3 Unit	<1	2	39	250	11
No. 4 Unit	<1	2	43	245	15
Total	2	4	82	495	26
No. 2 Unit <sup>(1)</sup>	<1	<1	5	40	16
Rate <sup>(2)</sup>	25	40	100	40	-

(1) Emissions due to increase from 70 to 100 percent operation.

(2) Significant Emission Rate, 17-2.500, FAC, Table 500-2.

The amount of NO<sub>x</sub> emitted from the proposed sources exceed the significant emission rate and requires a BACT determination per 17-2.500(5)(c), FAC. A BACT determination is also required for Swoope No. 2 due to the relaxation of a permit limitation.

BACT Determination Requested by the Applicant:

Pollutant	Emission Limit
NO <sub>x</sub>	Natural gas firing with the ignition timing set as recommended by the manufacturer

Date of Receipt of a BACT Application:

June 28, 1982

Date of Publication in the Florida Administrative Weekly:

July 9, 1982

Review Group Members:

Comments were obtained from the New Source Review Section, the Air Modeling Section in the Bureau of Air Quality Management, and DER St. Johns River District.

BACT Determined by DER:

\*NO<sub>x</sub> Pollutant Emission Limits

Unit 2 - 690 ppmv corrected to 15% oxygen on a dry basis

Unit 3 - 620 ppmv corrected to 15% oxygen on a dry basis

Unit 4 - 625 ppmv corrected to 15% oxygen on a dry basis

\*Based on manufacturer's rated brake-specific fuel consumption at peak load. Applicant has option of using brake-specific fuel consumption as determined in the field. Test methods and operations monitoring as per the proposed NSPS 40 CFR 60.320, Subpart FF, Subsections 60.324 and 60.323.

DER Determination Rationale:

There is a proposed NSPS for stationary internal combustion engines, 40 CFR 60.320, Subpart FF. The NSPS is in administrative review and promulgation is expected in the last quarter of 1982. The consensus was that a more stringent NO<sub>x</sub> emission limitation than the NSPS was not justified. The department has determined BACT for NO<sub>x</sub> emissions to be based on the NSPS formula in Subpart FF, Subsection 60.322(a)(3)(ii).

$$\text{STD} = 600 \frac{10.2}{Y}$$

STD = Allowable NO<sub>x</sub> emissions, ppmv corrected to 15% oxygen on a dry basis.

Y = Manufacturer's rated brake-specific fuel consumption at peak load (Kj/w-hr) or applicants brake-specific fuel consumption at peak load as determined in the field.

The NO<sub>x</sub> emission limits determined as BACT are based on the manufacturer's brake-specific fuel consumption at peak load. The applicant has the option of using a brake-specific fuel consumption as determined in the field.

The NSPS was proposed July 23, 1979 (44 FR 43152) to apply to sources that commence construction after January 1982. The manufacturers of engines subject to the regulations should have had adequate time to develop a NO<sub>x</sub> emission reduction control technique for their engines in anticipation of the NSPS being promulgated.

The applicant, therefore, should have no great difficulty in meeting the NO<sub>x</sub> emission limits determined as BACT for Units 3 and 4. However, Unit 2 was permitted in July 1981 and that engine may require major modifications to meet the NO<sub>x</sub> emission limit. In this case, the applicant may submit to the department actual field data indicating the inability to meet the NO<sub>x</sub> emission limit. The department will then review the BACT determination for Unit 2 on basis of the new data presented.

The dual-fired engines serve the same application as diesel engines. In the event that natural gas should become limited the dual-fuel engines would likely operate as diesel engines. The NO<sub>x</sub> emission limit determined as BACT also applies to diesel engines, therefore, simplifying compliance by the applicant in the event the engines are converted totally to diesel.

Fuel injection retard is an effective NO<sub>x</sub> control technique but results in approximately a 3% increase in fuel usage. This will increase total fuel usage by 1107 cubic feet per hour of natural gas and 0.519 gallon per hour of No. 2 oil. The increased monthly cost to a consumer using 1000 kw of electricity would be approximately one dollar. The additional fuel cost is not considered excessive.



Details of the Analysis May Be Obtained by Contacting:

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

Recommended By:

*for* *Steve Smallwood*  
Steve Smallwood, Chief BAQM

Date: *August 19, 1982*

Approved:

*Terry Cole*  
Victoria V. Tschinkel, Secretary

Date: *8/18/82*

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

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

**RECEIVED**

SEP 28 1982

Office of the Secretary

TO: Victoria J. Tschinkel  
FROM: Clair Fancy *J. George for CF*  
DATE: September 28, 1982  
SUBJ: Approval and Signature of Air Construction Permits

Attached please find two Air Construction Permits for which the applicant is New Smyrna Beach Utilities Commission. The proposed construction is the installation of two gas diesel units at the existing Swoope Generation Station in New Smyrna Beach.

Day 90, after which the permit would be issued by default, is October 17, 1982.

The Bureau recommends your approval and signature.

CF/pa

Attachments

STATE CLEARINGHOUSE  
Intergovernmental Coordination  
Office of the Governor  
The Capitol Building  
Tallahassee, Florida 32301  
(904)488-8114

SAI Number: FL8208260263

Date Received: 8-26-82

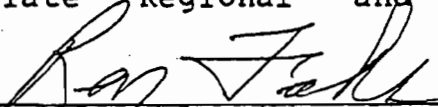
DER  
SEP 01 1982  
BAQM

We have received your recent correspondence concerning the project identified by your title Preliminary Determination- New Smyrna Beach Utilities Commission, Swoope Units 3 & 4

This review begins on the day the subject item was received in our office, pursuant to U. S. OMB Circular A-95 and/or Section 216.212 Florida Statutes. Please refer to the above State Application Identifier (SAI) Number in future correspondence concerning the project. The State Application Identifier must be inserted in item 3b of Federal Form 424. Completion of item 3b and attachment of our final letter of comments will complete your application for submission to the appropriate federal agency.

The target date for completion of our review and dispatch of comments is this date plus 30 days. Completion of action may be delayed if we need to review additional information, in which case you will be notified.

Please insure that copies of your application have been sent to the appropriate Regional and Metropolitan Clearinghouses.

  
Ron Fahs, Director  
Intergovernmental Coordination

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519-120 Sams Ave.  
New Smyrna Beach, Florida 32069  
(904) 427-1361



August 31, 1982

Mr. C. H. Fancy, P.E.  
Department of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, FL 32301

DER  
SEP 02 1982  
BAQ

Re: Public Notice - Swoope No. 3 and No. 4  
Utilities Commission  
City of New Smyrna Beach, FL

Dear Mr. Fancy:

Enclosed is the affidavit of publication of the public notice proposing a modification to an existing air pollution source (Swoope No. 3 and No. 4) as requested in your letter of August 20, 1982.

Sincerely,

UTILITIES COMMISSION

  
P. A. Korelich, P.E.  
Chief Engineer

ac  
enclosure

# NEW SMYRNA BEACH NEWS & OBSERVER

Published Three Times Weekly  
New Smyrna Beach, Volusia County, Florida 32069

STATE OF FLORIDA,  
COUNTY OF VOLUSIA:

Before the undersigned authority personally appeared Peter E. Cardiff who on oath says that he is Publisher of the New Smyrna Beach News & Observer, a tri-weekly newspaper published at New Smyrna Beach in Volusia County, Florida; that the attached copy of Advertisement, being a Public Notice..... in the matter of ....., in the ....., Court, was published in said newspaper in the issues of:

August 27 19 82 ..... 19 .....  
..... 19 ..... 19 .....  
..... 19 ..... 19 .....  
..... 19 ..... 19 .....  
..... 19 ..... 19 .....

Affiant further says that the said New Smyrna Beach News & Observer is a newspaper published at New Smyrna Beach, in said Volusia County, Florida, and that the said newspaper has heretofore been continuously published in said Volusia County, Florida, and has been entered as second class mail matter at the post office in New Smyrna Beach, in said Volusia County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

*Peter E. Cardiff*  
\_\_\_\_\_

Sworn to and subscribed before me this 27th day of

August, A.D., 19 82

*Laura W. Swain*  
\_\_\_\_\_

Pub. Cost. \$ 15.08

Notary Public, State of Florida  
My Commission Expires Dec. 7, 1985  
Bonded thru Troy Fair Insurance, Inc.

## PROOF OF PUBLICATION

### PUBLIC NOTICE

A modification to an existing air pollution source is being proposed by the Utilities Commission, City of New Smyrna Beach, Florida. The proposed modification is the construction of two gas diesel units, Swoope No. 3 and No. 4, with generating capacities of 2050 KW and 2275 KW, respectively. The modification will increase emissions of air pollutants, in tons per year, by the following amounts:

PM: 2  
SO<sub>2</sub>: 4  
NO<sub>x</sub>: 535  
CO: 87  
VOC: 42

The proposed modification has been reviewed by the Florida Department of Environmental Regulation under Chapter 403, Florida Statutes, and Federal regulation 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The Department has made a preliminary determination that the construction can be approved provided certain conditions are met. A summary of the basis for the determination and the application for State and Federal permits submitted by the Utilities Commission, City of New Smyrna Beach, Florida, are available for public review at the following offices:

Brannon Memorial Library  
105 Riverside Drive  
New Smyrna Beach, Florida 32069

Bureau of Air Quality Management  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

St. Johns River District  
3319 Maguire Drive  
Suite 232  
Orlando, Florida 32803

No allowable PSD increments for PM or SO<sub>2</sub> are consumed by the proposed modification.

Any person may submit written comments regarding the proposed modification. All comments, postmarked no later than 30 days from the date of this notice, will be considered in making a final determination regarding approval for construction of this source. Those comments will be made available for public review on request. Furthermore, a public hearing can be requested by any person. Such request should be submitted within 15 days of the date of this notice. Letters should be addressed to:

Mr. C.H. Fancy, P.E.  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

August 24, 1982

Mr. P. A. Korelich, Chief Engineer  
Utilities Commission, City of New  
Smyrna Beach  
Post Office Box 519  
New Smyrna Beach, Florida 32069

Dear Mr. Korelich:

RE: Preliminary Determination - New Smyrna Beach Utilities  
Commission, Swoope Units 3 and 4, State AC 64-57578 and  
AC 64-57580, Federal PSD-FL-089

The Florida Department of Environmental Regulation, under the authority delegated by the U.S. Environmental Protection Agency, Region IV, has reviewed your application to modify the referenced sources under the provisions of the Prevention of Significant Deterioration Regulations (40 CFR 52.21) and has made a preliminary determination of approval with conditions. Please find enclosed two copies of the Preliminary Determination.

A copy of the Preliminary Determination and your application will be open to public review and comment for a period of 30 days. The public can also request a public hearing to review and discuss specific issues. At the end of this period, the Department will evaluate the comments received and make a final determination regarding the proposed construction.

Should you have questions regarding this information, please contact Mr. Bill Thomas at (904) 488-1344.

Sincerely,

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

CHF/pa

Enclosure

DEPARTMENT OF ENVIRONMENTAL REGULATION

<b>ROUTING AND TRANSMITTAL SLIP</b>	ACTION NO.
	ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	INITIAL
<del>Bill Thomas</del> BT	DATE
2. Clair Faney CF	INITIAL
	DATE
3.	INITIAL
	DATE
4.	INITIAL
	DATE

REMARKS:

- Attached is the Preliminary Determination for City of New Smyrna Beach.
- It needs to be out today. (55 days will be 8/22)

INFORMATION	
<input type="checkbox"/>	REVIEW & RETURN
<input type="checkbox"/>	REVIEW & FILE
<input type="checkbox"/>	INITIAL & FORWARD
DISPOSITION	
<input type="checkbox"/>	REVIEW & RESPOND
<input type="checkbox"/>	PREPARE RESPONSE
<input type="checkbox"/>	FOR MY SIGNATURE
<input type="checkbox"/>	FOR YOUR SIGNATURE
<input type="checkbox"/>	LET'S DISCUSS
<input type="checkbox"/>	SET UP MEETING
<input type="checkbox"/>	INVESTIGATE & REPT
<input type="checkbox"/>	INITIAL & FORWARD
<input type="checkbox"/>	DISTRIBUTE
<input type="checkbox"/>	CONCURRENCE
<input type="checkbox"/>	FOR PROCESSING
<input type="checkbox"/>	INITIAL & RETURN

FROM: Bob King	DATE: 8/20/82
	PHONE:

Technical Evaluation  
and  
Preliminary Determination

Utilities Commission  
City of New Smyrna Beach  
Volusia County, Florida  
Swoope Units 3 and 4, Gas Diesel

Permit Numbers

State: AC 64-57578  
AC 64-57580  
Federal: PSD-FL-089

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

August 10, 1982



Public Notice

A modification to an existing air pollution source is being proposed by the City of New Smyrna Beach, Volusia County, Florida. The proposed modification is the construction of two gas diesel units, Swoope #3 and #4, with generating capacities of 2050 KW and 2275 KW, respectively. The modification will increase emissions of air pollutants, in tons per year, by the following amounts.

<u>PM</u>	<u>SO<sub>2</sub></u>	<u>NO<sub>x</sub></u>	<u>CO</u>	<u>VOC</u>
2	4	535	87	42

The proposed modification has been reviewed by the Florida Department of Environmental Regulation under Chapter 403, Florida Statutes, and, Federal regulation 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The Department has made a preliminary determination that the construction can be approved provided certain conditions are met. A summary of the basis for the determination and the application for State and Federal permits submitted by the City of New Smyrna Beach are available for public review at the following offices:

Brannon Memorial Library  
105 Riverside Drive  
New Smyrna Beach, Florida 32069

Bureau of Air Quality Management  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

St. Johns River District  
3319 Maguire Drive  
Suite 232  
Orlando, Florida 32803

No allowable PSD increments for PM or SO<sub>2</sub> are consumed by the proposed modification.

Any person may submit written comments regarding the proposed modification. All comments, postmarked not later than 30 days from the date of this notice, will be considered in making a final determination regarding approval for construction of this source. Those comments will be made available for public review on request. Furthermore, a public hearing can be requested by any person. Such request should be submitted within 15 days of the date of this notice. Letters should be addressed to:

Mr. C. H. Fancy, P.E.  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Technical Evaluation  
and  
Preliminary Determination

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I. Applicant and Site Location

Utilities Commission  
City of New Smyrna Beach  
P.O. Box 519  
New Smyrna Beach, Florida 32069

The proposed modification will occur at the Swoope Generating Station located in the City of New Smyrna Beach, Volusia County, Florida. The UTM coordinates are 505.8 km East and 3214.8 km North.

II. Project Description

The Utilities Commission plans to construct two additional gas diesel units, Swoope #3 and #4, with generating capacities of 2050 KW and 2275 KW, respectively. Both units will be natural gas fired with 4 to 6 percent heat input from No. 2 fuel oil (diesel) as pilot fuel.

Currently there are two power generating units at the existing site. Swoope Unit #1 is a 116 MMBtu/hr steam generator and Swoope Unit #2 is a 910 KW gas diesel generator which is limited by permit condition to a 70 percent capacity factor.

The proposed modification is the addition of the two gas diesel units and an increase to 100 percent capacity factor for Swoope Unit #2.

### III. Emissions and Controls

The major air pollutant emitted from the diesel generating units while firing 95% natural gas and 5% No. 2 fuel oil (based on Btu heat input) will be NO<sub>x</sub> emissions. The projected air pollutant emissions from Swoope Unit 3 and 4 are listed as follows:

Pollutant	Unit 3		Unit 4	
	Maximum lbs/hr	tons per year	Maximum lbs/hr	tons per year
Nitrogen Oxides, NO <sub>x</sub>	57.1	250	55.9	245
Particulate, PM	0.25	1	0.28	1
Sulfur Dioxide, SO <sub>2</sub>	0.42	2	0.47	2
Carbon Monoxide, CO	8.9	39	9.8	43
Hydrocarbon, HC	2.5	11	3.5	15

The current maximum air pollutant emissions and the projected maximum emissions after modification are listed in the following table:

Annual Emissions from Swoope Station

	NO <sub>x</sub>	PM	SO <sub>2</sub>	CO	HC*
<u>Current</u>	<u>Tons per Year</u>				
Unit 1 (steam)	140	27	1	5	8
Unit 2 (diesel)	<u>94</u>	<u>0.1</u>	<u>0.3</u>	<u>12</u>	<u>37</u>
TOTAL	234	27	1	17	45
<u>Projected</u>					
Unit 1	140	27	1	5	8
Unit 2	134	0.2	0.4	17	53
Unit 3	250	1	2	33	11
Unit 4	<u>245</u>	<u>1</u>	<u>2</u>	<u>43</u>	<u>15</u>
TOTAL	769	29	5	104	87
<u>NET INCREASE</u>	<u>535</u>	<u>2</u>	<u>4</u>	<u>87</u>	<u>42</u>

\*Swoope Unit 2 hydrocarbons reported as total HC, Units 3 and 4 reported as non-methane HC.

There will not be any pollution control equipment installed at the site.

#### IV. Rule Applicability

##### State Rule

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

The proposed project location is in an attainment area for all the pollutants. It will make the existing minor facility become a major facility for NO<sub>x</sub> as defined in Section 17-2.100, because NO<sub>x</sub> emissions will increase by more than 250 tons per year due to this modification. The project is subject to the provisions of Section 17-2.500, Prevention of Significant Deterioration (PSD) which requires an air quality impact analysis and the use of Best Available Control Technology (BACT)

##### Federal Rule

The proposed source is subject to federal PSD review because it is a major modification (40 CFR 52.21(b)(2)). The actual NO<sub>x</sub> emissions increase, 535 tons per year, is above the major emission rate 250 tons per year. Therefore, emissions of NO<sub>x</sub> are subject to an air quality impact analysis and a BACT determination under 40 CFR 52.21(i).

## V. Control Technology Review

Fuel injection retardation is an effective NO<sub>x</sub> control technique but results in approximately a 3% increase in fuel usage. The increased monthly cost to a consumer using 1000 kwh of electricity would be approximately one dollar. Based on a proposed NSPS for stationary internal combustion engines, FDER has determined that this technique represents the best available control technology for the proposed gas diesel units. NO<sub>x</sub> emissions will be limited for this modification as follows:

Unit No. 2 - 690 ppmv corrected to 15% oxygen on a dry basis

Unit No. 3 - 620 ppmv corrected to 15% oxygen on a dry basis

Unit No. 4 - 625 ppmv corrected to 15% oxygen on a dry basis

## VI. Air Quality Impact Analysis

### A. Summary

Since the proposed project is subject to both State and federal PSD review for the pollutant NO<sub>x</sub>, an air quality impact analysis is required. This analysis includes:

- o An analysis of existing air quality;
- o An ambient air quality standards analysis;
- o An analysis of impact on soils, vegetation and visibility and growth-related air quality impacts.

The analysis of existing air quality may require preconstruction monitoring. The air quality standards

analysis depends on air quality modeling carried out in accordance with FDER- and EPA-approved methods. Federal PSD review also requires a good engineering practice stack height evaluation.

Based on this air quality impact analysis, FDER has reasonable assurance that the proposed project, as described in this permit and subject to the conditions of approval proposed herein, will not cause or contribute to a violation of any State or federal ambient air quality standard. A discussion of the required analysis follows.

## B. Discussion

### 1. Modeling Methodology

Both State and federal regulations contain only annual average standards for NO<sub>2</sub>. The State and federal annual average standards are the same, 100 ug/m<sup>3</sup>. The FDER- and EPA-approved Industrial Source Complex Long-Term (ISCLT) model was used in the air quality impacts analysis. The conservative assumption that all NO<sub>x</sub> is emitted as NO<sub>2</sub> was made in the modeling. One year of National Weather Service data collected at Daytona Beach, Florida in 1964 was used in the model. These data were summarized in the STAR format. A rectangular grid with a 0.1 kilometer spacing was used and all sources were assumed to emit at maximum allowable rates, 24 hours a day, every day of the year. Final stack parameters and emission rates used in modeling the proposed project are contained in Tables VI-1 and VI-2.



Table VI-1

## Stack Parameters for the Existing Swoope Generating Facility

<u>Emissions Unit</u>	<u>Stack Height (m)</u>	<u>Stack Diameter (m)</u>	<u>Exit Velocity (m/s)</u>	<u>Exit Temperature (K)</u>	<u>Emission Rate (g/s) NO<sub>x</sub></u>
Swoope #1	38.1	1.38	9.5	644	4.04
Swoope #2	6.1	0.36	43.9	589	2.69

Table VI-2

## Stack Parameters for Proposed Swoope Generating Station

<u>Emission Unit</u>	<u>Stack Height (m)</u>	<u>Stack Diameter (m)</u>	<u>Exit Velocity (m/s)</u>	<u>Exit Temperature (K)</u>	<u>Emission Rate (g/s) NO<sub>x</sub></u>
Swoope #1	38.1	1.38	9.5	644	4.04
Swoope #2	6.1	0.36	43.9	589	3.84
Swoope #3	6.1	0.56	41.2	644	7.20
Swoope #4	6.1	0.56	44.2	644	7.00

## 2. Analysis of Existing Air Quality

In order to evaluate existing air quality in the area of a proposed project, FDER may require a period of continuous preconstruction monitoring for any pollutant subject to PSD review. An exemption from this requirement may be obtained if the net emissions increase of the pollutant from the modification would cause an air quality impact less than a certain de minimis level as defined in 40 CFR 52.21(i)(8) and Table 500-3 in Chapter 17-2, FAC. The federal level is 14 ug/m<sup>3</sup>, annual average, however, in the State rules the level is currently defined as 14 ug/m<sup>3</sup>, 24-hour average. Modeling predicts the impact of the proposed project to be greater than the State level, but less than the federal level.

Under the existing State regulation which requires preconstruction monitoring for NO<sub>x</sub>, FDER has determined that existing representative NO<sub>x</sub> ambient air monitoring data may be used. Since the Swoope facility is located in a remote area with respect to non-specified NO<sub>x</sub> sources, FDER has determined that NO<sub>x</sub> data gathered at a regional site may be used as representative data. FDER has chosen the Stanton Plant monitoring site in east Orange County, which is operated by the Orlando Utilities Commission, as a regional NO<sub>x</sub> monitoring site for this project. Based on data from

this site, FDER has assumed a background NO<sub>x</sub> value of 12 ug/m<sup>3</sup>, annual average.

### 3. Ambient Air Quality Standards Analysis

Both State and federal PSD regulations require the permit applicant to demonstrate that, given existing air quality in an area, a proposed emissions increase subject to PSD will not cause or contribute to any violation of ambient air quality standards. For this project, an ambient air quality standards analysis is required for NO<sub>x</sub>. Modeling results predict that the highest expected annual average impact due to the Swoope Generating Station is 28 ug/m<sup>3</sup> (this value includes a background value of 12 ug/m<sup>3</sup>). This value is well below both the State and federal ambient air quality standard of 100 ug/m<sup>3</sup>, annual average.

The impacts of interaction of emissions from other sources with those from the Swoope facility were evaluated. Maximum NO<sub>x</sub> concentrations from surrounding sources are very small compared to maximum concentrations from Swoope. Therefore, no violations of ambient standards are predicted to occur due to interacting sources.

### 4. Good Engineering Practice Stack Height Evaluation

The stack heights proposed for the Swoope project do not exceed the Good Engineering Practice (GEP) stack height of 65 meters for stacks uninfluenced by structures or terrain.

No downwash analysis was performed since only long-term average air quality standards exist for NO<sub>x</sub> emissions.

5. Analysis of Impact on Soils, Vegetation and Visibility and Growth-Related Air Quality Impacts

The maximum impact of the proposed NO<sub>x</sub> emissions increase will be insignificant. No adverse effects on soils, vegetation and visibility are expected.

There will be no secondary residential, commercial or industrial growth which will adversely affect air quality in the area.

VII. Conclusions

Based on evaluation of the application, FDER believes that compliance with all State and federal air regulations will be achieved provided certain specific conditions are met. The general and specific conditions are listed in the attached draft State permits (AC 64-57578 and AC 64-57580) and federal permit (PSD-FL-089).

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT: Utilities Commission  
City of New Smyrna Beach  
P. O. Box 519  
New Smyrna Beach, Florida 32069

PERMIT/CERTIFICATION  
NO. AC 64-57578

COUNTY: Volusia  
PROJECT: Swoope Unit #3  
Gas Diesel

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2 and 17-4, 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:

For the installation of a 2050 kw diesel generating unit to be located at the existing Swoope plant site in the City of New Smyrna Beach, Volusia County, Florida. The UTM coordinates are 505.8 km East and 3214.8 km North.

The construction shall be in accordance with the attached permit application, plans and documents except as otherwise noted on page 3, Specific Conditions.

Attachments:

1. Application to Construct Air Pollution Source, DER Form 17-2.122(16), received on June 28, 1982.
2. Best Available Control Technology (BACT) Determination dated August 18, 1982.

PERMIT NO.: AC 64-57578  
APPLICANT: Utilities Commission

**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 64-57578  
APPLICANT: Utilities Commission

SPECIFIC CONDITIONS:

1. The proposed unit shall be constructed in accordance with the capacities and specifications stated in the application and additional information supplied by the applicant.
2. Sulfur content of the fuel oil fired in the proposed gas diesel unit shall be limited to 0.3%.
3. Nitrogen oxides emissions from the Unit No. 3 shall be limited to 620 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity.
4. The 70% capacity factor restriction of Swoope Unit No. 2 shall be eliminated. The new NO<sub>x</sub> emission limit, which is regulated by the attached BACT determination, shall be 690 ppmv corrected to 15% oxygen on a dry basis.



PERMIT NO.: AC 64-57578  
APPLICANT: Utilities Commission

Expiration Date: June 30, 1983

Issued this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

\_\_\_\_\_ Pages Attached.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_  
Signature

STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
 GOVERNOR

VICTORIA J. TSCHINKEL  
 SECRETARY

APPLICANT: Utilities Commission  
 City of New Smyrna Beach  
 P. O. Box 519  
 New Smyrna Beach, Florida 32069

PERMIT/CERTIFICATION  
 NO. AC 64-57580

COUNTY: Volusia

PROJECT: Swoope Unit #4  
 Gas Diesel

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2 and 17-4, 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:

For the installation of a 2275 kw diesel generating unit to be located at the existing Swoope plant site in the City of New Smyrna Beach, Volusia County, Florida. The UTM coordinates are 505.8 km East and 3214.8 km North.

The construction shall be in accordance with the attached permit application, plans and documents except as otherwise noted on page 3, Specific Conditions.

Attachments:

1. Application to Construct Air Pollution Source, DER Form 17-1.122(16), received on June 28, 1982.
2. Best Available Control Technology (BACT) Determination dated August 18, 1982.

PERMIT NO.: AC 64-57580  
APPLICANT: Utilities Commission

**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 64-57580  
APPLICANT: Utilities Commission

SPECIFIC CONDITIONS:

1. The proposed unit shall be constructed in accordance with the capacities and specifications stated in the application and additional information supplied by the applicant.
2. Sulfur content of the fuel oil fired in the proposed gas diesel unit shall be limited to 0.3%.
3. Nitrogen oxides emissions from the unit shall be limited to 625 ppmv corrected to 15% oxygen on a dry basis. Compliance with the emission limits required by the attached BACT determination shall be determined by performance tests while the unit is at or close to full operating capacity.

PERMIT NO.: AC 64-57580  
APPLICANT: Utilities Commission

Expiration Date: June 30, 1983

                     Pages Attached.

Issued this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_  
Signature

PAGE 4 OF 4

Preliminary Determination

(PSD-FL-089)

Utilities Commission  
City of New Smyrna Beach

The preceding Technical Evaluation and Preliminary Determination are adopted by reference for the proposed federal permit, PSD-FL-089.

Special Conditions listed in the draft State permits, AC 64-57578 and AC 64-57580 are adopted as special conditions for the draft federal permit, PSD-FL-089, for this source.

The attached General Conditions are also made a part of the proposed federal permit PSD-FL-089 for this source.

Attachment: General Conditions (federal)

## GENERAL CONDITIONS

1. The permittee shall notify the permitting authority in writing of the beginning of construction of the permitted source within 30 days of such action and the estimated date of start-up of operation.
2. The permittee shall notify the permitting authority in writing of the actual start-up of the permitted source within 30 days of such action and the estimated date of demonstration of compliance as required in the specific conditions.
3. Each emission point for which an emission test method is established in this permit shall be tested in order to determine compliance with the emission limitations contained herein within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up of the permitted source. The permittee shall notify the permitting authority of the scheduled date of compliance testing at least thirty (30) days in advance of such test. Compliance test results shall be submitted to the permitting authority within forty-five (45) days after the complete testing. The permittee shall provide (1) sampling ports adequate for test methods applicable to such facility, (2) safe sampling platforms, (3) safe access to sampling platforms, and (4) utilities for sampling and testing equipment.
4. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
5. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall immediately notify the State District Manager by telephone and provide the District Office and the permitting authority with the following information in writing within four (4) days of such conditions:
  - (a) description for noncomplying emission(s),
  - (b) cause of noncompliance,
  - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,

(d) steps taken by the permittee to reduce and eliminate the noncomplying emission,

and

(e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of this report does not constitute a waiver of the emission limitations contained within this permit.

6. Any change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that will result in new or increased emissions must be reported to the permitting authority. If appropriate, modifications to the permit may then be made by the permitting authority to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein.
7. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit by letter and forward a copy of such letter to the permitting authority.
8. The permittee shall allow representatives of the State environmental control agency or representatives of the Environmental Protection Agency, upon the presentation of credentials:
  - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
  - (b) to have access to any copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Act;
  - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;



(d) to sample at reasonable times any emission of pollutants;

and

(e) to perform at reasonable times an operation and maintenance inspection of the permitted source.

9. All correspondence required to be submitted to this permit to the permitting agency shall be mailed to:

Mr. James T. Wilburn  
Chief, Air Management Branch  
Air & Waste Management Division  
U.S. EPA, Region IV  
345 Courtland Street, NE  
Atlanta, GA 30365

10. The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

The emission of any pollutant more frequently or at a level in excess of that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

BEST AVAILABLE CONTROL TECHNOLOGY (BACT) DETERMINATION  
CITY OF NEW SMYRNA BEACH  
VOLUSIA COUNTY

The City of New Smyrna Beach plans to increase electric power generation capacity an additional 4.33 megawatts. Two generators, each driven by a dual fuel twelve cylinder diesel engine, are to be installed at the Swoope generating station. The engines will use natural gas and No. 2 distillate oil as fuel.

The new installations identified as Swoope No. 3 and Swoope No. 4 will have a maximum engine heat input of 19.2 and 21.2 million Btu per hour, respectively. Both units are scheduled to operate 8760 hours per year.

Swoope No. 2, a similar existing 910 kilowatt unit is limited by permit conditions to operate at 70 percent of full load (AC 64-43484). The applicant has requested this permit condition be changed to allow unrestricted operation.

Air Contaminants Summary: (tons per year)

<u>Source</u>	<u>PM</u>	<u>SO<sub>2</sub></u>	<u>CO</u>	<u>NO<sub>x</sub></u>	<u>HC</u>
No. 3 Unit	<1	2	39	250	11
No. 4 Unit	<1	2	43	245	15
Total	2	4	82	495	26
No. 2 Unit <sup>(1)</sup>	<1	<1	5	40	16
Rate <sup>(2)</sup>	25	40	100	40	-

(1) Emissions due to increase from 70 to 100 percent operation.

(2) Significant Emission Rate, 17-2.500, FAC, Table 500-2.

The amount of NO<sub>x</sub> emitted from the proposed sources exceed the significant emission rate and requires a BACT determination per 17-2.500(5)(c), FAC. A BACT determination is also required for Swoope No. 2 due to the relaxation of a permit limitation.

BACT Determination Requested by the Applicant:

Pollutant	Emission Limit
NO <sub>x</sub>	Natural gas firing with the ignition timing set as recommended by the manufacturer

Date of Receipt of a BACT Application:

June 28, 1982

Date of Publication in the Florida Administrative Weekly:

July 9, 1982

Review Group Members:

Comments were obtained from the New Source Review Section, the Air Modeling Section in the Bureau of Air Quality Management, and DER St. Johns River District.

BACT Determined by DER:

\*NO<sub>x</sub> Pollutant Emission Limits

Unit 2 - 690 ppmv corrected to 15% oxygen on a dry basis

Unit 3 - 620 ppmv corrected to 15% oxygen on a dry basis

Unit 4 - 625 ppmv corrected to 15% oxygen on a dry basis

\*Based on manufacturer's rated brake-specific fuel consumption at peak load. Applicant has option of using brake-specific fuel consumption as determined in the field. Test methods and operations monitoring as per the proposed NSPS 40 CFR 60.320, Subpart FF, Subsections 60.324 and 60.323.

DER Determination Rationale:

There is a proposed NSPS for stationary internal combustion engines, 40 CFR 60.320, Subpart FF. The NSPS is in administrative review and promulgation is expected in the last quarter of 1982. The consensus was that a more stringent NO<sub>x</sub> emission limitation than the NSPS was not justified. The department has determined BACT for NO<sub>x</sub> emissions to be based on the NSPS formula in Subpart FF, Subsection 60.322(a)(3)(ii).

$$\text{STD} = 600 \frac{10.2}{Y}$$

STD = Allowable NO<sub>x</sub> emissions, ppmv corrected to 15% oxygen on a dry basis.

Y = Manufacturer's rated brake-specific fuel consumption at peak load (Kj/w-hr) or applicants brake-specific fuel consumption at peak load as determined in the field.

The NO<sub>x</sub> emission limits determined as BACT are based on the manufacturer's brake-specific fuel consumption at peak load. The applicant has the option of using a brake-specific fuel consumption as determined in the field.

The NSPS was proposed July 23, 1979 (44 FR 43152) to apply to sources that commence construction after January 1982. The manufacturers of engines subject to the regulations should have had adequate time to develop a NO<sub>x</sub> emission reduction control technique for their engines in anticipation of the NSPS being promulgated.

The applicant, therefore, should have no great difficulty in meeting the NO<sub>x</sub> emission limits determined as BACT for Units 3 and 4. However, Unit 2 was permitted in July 1981 and that engine may require major modifications to meet the NO<sub>x</sub> emission limit. In this case, the applicant may submit to the department actual field data indicating the inability to meet the NO<sub>x</sub> emission limit. The department will then review the BACT determination for Unit 2 on basis of the new data presented.

The dual-fired engines serve the same application as diesel engines. In the event that natural gas should become limited the dual-fuel engines would likely operate as diesel engines. The NO<sub>x</sub> emission limit determined as BACT also applies to diesel engines, therefore, simplifying compliance by the applicant in the event the engines are converted totally to diesel.

Fuel injection retard is an effective NO<sub>x</sub> control technique but results in approximately a 3% increase in fuel usage. This will increase total fuel usage by 1107 cubic feet per hour of natural gas and 0.519 gallon per hour of No. 2 oil. The increased monthly cost to a consumer using 1000 kw of electricity would be approximately one dollar. The additional fuel cost is not considered excessive.

Details of the Analysis May Be Obtained by Contacting:

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

Recommended By:

*for* *James A. George*  
Steve Smallwood, Chief BAQM

Date: *August 18, 1982*

Approved:

*Terry Cole*  
Victoria J. Tschinkel, Secretary

Date: *8/18/82*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

M E M O R A N D U M

TO: Charles Collins, DER St. Johns River District Office

FROM: C. H. Fancy, Deputy Chief, Bureau of Air  
Quality Management *CHF*

DATE: August 24, 1982

SUBJ: Preliminary Determination - City of New Smyrna Beach  
Utilities Commission, Swoope Units 3 and 4, AC 64-57578  
and AC 64-57580, Federal PSD-FL-089

Attached is one copy of the application, Technical Evaluation and Preliminary Determination, and proposed permits to construct two additional gas diesel units at the Swoope Generating Station, Volusia County.

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

CHF/bjm

Attachment

*Subject*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

August 20, 1982

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. P. A. Korelich  
Chief Engineer  
Utilities Commission  
City of New Smyrna Beach  
P. O. Box 519  
New Smyrna Beach, Florida 32069

Dear Mr. Korelich:

Pursuant to Section 403.815, Florida Statutes, and Florida Administrative Code Rule 17-1.62, you are required to publish (at your own expense) the attached notice. This notice should be published, one time only, as soon as possible, in the legal ad section of a newspaper of general circulation in the New Smyrna Beach area.

The Department, in accordance with Rule 17-1.62, is required to have proof that the public notice was given. Therefore, please have the newspaper prepare an affidavit of publication to submit to the Department.

Sincerely,

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

CHF:PA:ras

Attachment

Public Notice

A modification to an existing air pollution source is being proposed by the City of New Smyrna Beach, Volusia County, Florida. The proposed modification is the construction of two gas diesel units, Swoope #3 and #4, with generating capacities of 2050 KW and 2275 KW, respectively. The modification will increase emissions of air pollutants, in tons per year, by the following amounts.

<u>PM</u>	<u>SO<sub>2</sub></u>	<u>NO<sub>x</sub></u>	<u>CO</u>	<u>VOC</u>
2	4	535	87	42

The proposed modification has been reviewed by the Florida Department of Environmental Regulation under Chapter 403, Florida Statutes, and, Federal regulation 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The Department has made a preliminary determination that the construction can be approved provided certain conditions are met. A summary of the basis for the determination and the application for State and Federal permits submitted by the City of New Smyrna Beach are available for public review at the following offices:

Brannon Memorial Library  
105 Riverside Drive  
New Smyrna Beach, Florida 32069

Bureau of Air Quality Management  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

St. Johns River District  
3319 Maguire Drive  
Suite 232  
Orlando, Florida 32803

No allowable PSD increments for PM or SO<sub>2</sub> are consumed by the proposed modification.

Any person may submit written comments regarding the proposed modification. All comments, postmarked not later than 30 days from the date of this notice, will be considered in making a final determination regarding approval for construction of this source. Those comments will be made available for public review on request. Furthermore, a public hearing can be requested by any person. Such request should be submitted within 15 days of the date of this notice. Letters should be addressed to:

Mr. C. H. Fancy, P.E.  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301



P16 7682472  
**RECEIPT FOR CERTIFIED MAIL**

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

SENT TO		
P. A. Korelich		
STREET AND NO.		
P.O. Box 519		
P.O. STATE AND ZIP CODE		
N. Smyrna Bch, FL32069		
POSTAGE	\$	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	c
	SPECIAL DELIVERY	c
	RESTRICTED DELIVERY	c
	OPTIONAL SERVICES	
	RETURN RECEIPT SERVICE	c
	SHOW TO WHOM AND DATE DELIVERED	c
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
	SHOW TO WHDM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$	
POSTMARK OR DATE		

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

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

1. The following service is requested (check one.)  
 Show to whom and date delivered..... c  
 Show to whom, date and address of delivery..... c  
 RESTRICTED DELIVERY  
 Show to whom and date delivered..... c  
 RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery \$ \_\_\_\_\_  
 (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:  
 Mr. P. A. Korelich, Chief  
 Engineer-Utilities Commission  
 P.O. Box 519  
 New Smyrna Beach, FL 32069

3. ARTICLE DESCRIPTION:  
 REGISTERED NO. CERTIFIED NO. INSURED NO.  
 \_\_\_\_\_ 7682472 \_\_\_\_\_

(Always obtain signature of addressee or agent)

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

4. DATE OF DELIVERY

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

POSTMARK  
 NEW SMYRNA BEACH, FL  
 AUG 23 1982  
 U.S. POST OFFICE  
 CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

BEST AVAILABLE COPY

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

July 28, 1982

Mr. P. A. Korelich  
Chief Engineer  
Utilities Commission  
City of New Smyrna Beach  
P. O. Box 519  
New Smyrna Beach, Florida

Dear Mr. Korelich:

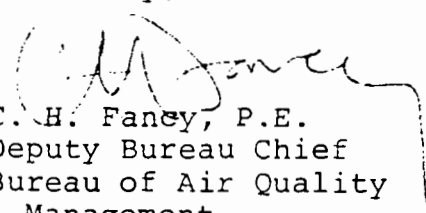
Your commission's application for state permits to construct two additional gas diesel units at your Swoope site has been considered complete by the Bureau of Air Quality Management, DER in Tallahassee.

Based on the content of the application, the proposed construction is subject to federal PSD review. The U.S. Environmental Protection Agency (EPA) has delegated responsibility for the technical and administrative review portion of the federal PSD program as it applies to sources in Florida to the Department's Bureau of Air Quality Management in Tallahassee. EPA has retained the authority to issue federal PSD permits based on preliminary and final PSD determination prepared by the Bureau.

Therefore, you should send the federal PSD application to the Bureau when all the required information is available.

If you have any questions, please feel free to call Mr. Bill Thomas at (904) 488-1344.

Sincerely,

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

CHF/BK/bjm

bcc: Chuck Collins  
M. H. Dybevick

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO.

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

*Bill Thomas*

INITIAL

DATE

2.

INITIAL

DATE

3.

INITIAL

DATE

4.

INITIAL

DATE

REMARKS:

*New Smyrna Beach*

*1. 45 day will be Aug 12*

*2. Mr. Korelich can be reached at (904) 427-1361*

*Telecon w/PA Korelich  
1145 Aug 10*

*He said letter about Fed PSD was mailed within 2 days of receipt of 7/28 letter. Call him if problem finding*

*JK*

INFORMATION

REVIEW & RETURN

REVIEW & FILE

INITIAL & FORWARD

DISPOSITION

REVIEW & RESPOND

PREPARE RESPONSE

FOR MY SIGNATURE

FOR YOUR SIGNATURE

LET'S DISCUSS

SET UP MEETING

INVESTIGATE & REPT

INITIAL & FORWARD

DISTRIBUTE

CONCURRENCE

FOR PROCESSING

INITIAL & RETURN

FROM:

*Bob King*

DATE

*8/10/82*

PHONE

BEST AVAILABLE COPY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

July 28, 1982

Mr. P. A. Korelich  
Chief Engineer  
Utilities Commission  
City of New Smyrna Beach  
P. O. Box 519  
New Smyrna Beach, Florida

Dear Mr. Korelich:

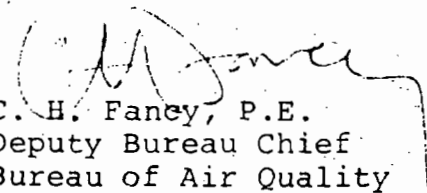
Your commission's application for state permits to construct two additional gas diesel units at your Swoope site has been considered complete by the Bureau of Air Quality Management, DER in Tallahassee.

Based on the content of the application, the proposed construction is subject to federal PSD review. The U.S. Environmental Protection Agency (EPA) has delegated responsibility for the technical and administrative review portion of the federal PSD program as it applies to sources in Florida to the Department's Bureau of Air Quality Management in Tallahassee. EPA has retained the authority to issue federal PSD permits based on preliminary and final PSD determination prepared by the Bureau.

Therefore, you should send the federal PSD application to the Bureau when all the required information is available.

If you have any questions, please feel free to call Mr. Bill Thomas at (904) 488-1344.

Sincerely,

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

CHF/BK/bjm

bcc: Chuck Collins  
M. H. Dybevick

# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA  
ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519-120 Sams Ave.  
New Smyrna Beach, Florida 32069  
(904) 427-1361



July 30, 1982

*Bill*

Mr. C. H. Fancy, P.E.  
Deputy Bureau Chief  
Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32301

DER  
AUG 02 1982  
BACK

Dear Mr. Fancy:

This is in response to your letter dated July 28, 1982 regarding the Utilities Commission's application for State permits to construct two additional gas diesel units at the Swoope site.

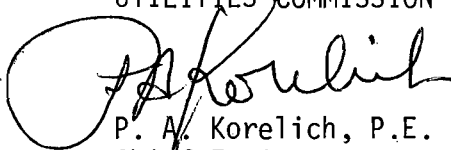
It was the intention of the Utilities Commission that the permit application would be considered as a federal permit as well as a state permit when sent to your department. Please initiate a federal PSD review for the following two diesel units:

1. AC 64-57578 - Unit 3
2. AC 64-57580 - Unit 4

If you have any questions, please feel free to call me on extension #104.

Sincerely,

UTILITIES COMMISSION

  
P. A. Korelich, P.E.  
Chief Engineer

ac

INTEROFFICE MEMORANDUM

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

TO: Permit File AC 66<sup>4</sup>-57578, and  
AC 64-57580

THRU: Clair Fancy  
Bill Thomas  
Larry George

FROM: Bob King

DATE: July 7, 1982

SUBJECT: Preliminary Rule Applicability Determination  
Utilities Commission, City of New Smyrna Beach,  
Volusia County

An application for permits to construct two additional gas diesel units (40 MMBtu/hr maximum total) at the Swoope Generating Station was submitted to the Bureau of Air Quality Management, DER on June 28, 1982 by the City of New Smyrna Beach. The application is under completeness review at this moment.

The major fuel is natural gas (95%) and the minor fuel is No. 2 fuel oil. NO<sub>x</sub> is the major pollutant emitted from these gas diesel units.

State Rule

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

The proposed project location is in the attainment areas for all the pollutants. It will make the existing minor facility become a major facility for NO<sub>x</sub> as defined in Chapter 17-2.100, because NO<sub>x</sub> emissions exceed 250 tons per year, *due to this increase*. The project is subject to the provisions of Section 17-2.500, *modification* Prevention of Significant Deterioration (PSD) which requires an air quality impact analysis and the use of Best Available Control Technology (BACT).

Permit File AC 6<sup>4</sup>6-57578 and  
AC 64-57580  
July 7, 1982  
Page Two

Federal Rule

The proposed source is subject to federal PSD review because it is a major modification (40 CFR 52.21 (b)(2)). The actual emission increase for NO<sub>x</sub> is above Significant Emission Rate for NO<sub>x</sub> (40 tons per year). Therefore, NO<sub>x</sub> is subject to an air quality impact analysis and BACT determination under 40 CFR 52.21(i).

For the approvals or comments from:

	<u>Comments</u>	<u>Signatures</u>
Larry George	<i>Subj. to PSD because mod. alone &gt; 250 TPY.</i>	<i>L George</i>
Bill Thomas		<i>BT</i>
Clair Fancy		<i>CF</i>

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

June 29, 1982

P. A. Korelich, P.E.  
Chief Engineer  
Utilities Commission  
City of New Smyrna Beach  
Post Office Box 517  
New Smyrna Beach, Florida 32069

Dear Mr. Korelich:

This is to acknowledge receipt of your applications to construct two gas diesel units at the Swoope Generating Station. Your receipt for the processing fees of \$40.00 is attached. Permit processing numbers have been assigned as follows:

AC 64-57578 - Unit 3

AC 64-57580 - Unit 4

Please refer to these numbers on future correspondence concerning these applications. If we may be of further assistance, please feel free to call at (904) 488-1344.

Sincerely,

Patty Adams  
Bureau of Air Quality  
Management

/pa

Attachment



# UTILITIES COMMISSION

CITY OF NEW SMYRNA BEACH, FLORIDA

ELECTRIC, WATER, POLLUTION CONTROL

Post Office Box 519-120 Sams Ave.  
New Smyrna Beach, Florida 32069  
(904) 427-1361

June 25, 1982



DER

JUN 28 1982

BAQM

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

Dear Mr. Fancy:

The Utilities Commission, City of New Smyrna Beach, Florida, is requesting permitting of two (2) additional gas diesel units at the Commission's Swoope Generating Station. Enclosed are four (4) sealed copies of the construction permit applications for this project. Also enclosed is our check #29321 for \$40.00 for the permit fees (\$20.00 for each application).

Please note in the PSD analysis, it assumes that the 70% capacity factor restriction on Swoope Unit No. 2 is to be eliminated.

Should you have any questions or comments concerning the applications, please call me on extension #104 or Mr. Ed Berrier, Manager of Generation.

Sincerely,

UTILITIES COMMISSION

P. A. Korelich, P.E.  
Chief Engineer

ac  
enclosures (4)

cc: E. Berrier, w/o enc.  
M. H. Dybevick, w/o enc.  
R. R. Hagen, w/o enc.

**UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FLORIDA**  
NEW SMYRNA BEACH, FL 32089

29321

63-524  
631



**Southeast Bank  
of Volusia**  
New Smyrna Beach, Florida 32069

June 24 1982

UTILITIES COMMISSION **40 DOLLS 00 CTS**

DOLLARS \$ 40.00

PAY

TO THE  
ORDER OF

FLORIDA DEPARTMENT OF ENVIRONMENTAL  
REGULATION  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Fla. 32301

UTILITIES OPERATING ACCOUNT

CHAIRMAN

AUTH. SIG.

*[Handwritten Signature]*  
*[Handwritten Signature]*

DETACH AND RETAIN THIS STATEMENT.

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.  
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

UTILITIES COMMISSION - CITY OF NEW SMYRNA BEACH, FLORIDA - UTILITIES OPERATING ACCOUNT

DATE	INVOICE NUMBER	DESCRIPTION	AMOUNT	DEDUCTIONS		NET AMOUNT
				PARTICULARS	AMOUNT	
6/24/82		For Application Fee - Construction Permit for Swoope #3 and #4				40.00

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 33617

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from New Smyrna Beach Utilities Commission Date June 24 1982

Address P.O. Box 511 New Smyrna Beach FL Dollars \$ 40.00

Applicant Name & Address Same as above

Source of Revenue \_\_\_\_\_

Revenue Code 0101 Application Number AC 64-57575  
2084-57580

By [Handwritten Signature]

DER

JUN 28 1982

BAQM

PERMIT APPLICATIONS  
AND  
PSD ANALYSIS FOR NEW SMYRNA BEACH UTILITIES

SWOOPE UNIT #3 AND #4

## CONTENTS

- I CONSTRUCTION PERMIT APPLICATION SWOPE #3
- II CONSTRUCTION PERMIT APPLICATION SWOPE #4
- III ATTACHMENTS
  - A--Reference to Permit Section II
  - B--Manufacturers letter-basis of emissions estimate
  - C--Flow diagram
  - D--Location map
  - E--Plot plan
  - F--PSD analysis
  - G--ISCLT computer model output



AC 64-57578

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
APPLICATION TO OPERATE/CONSTRUCT  
AIR POLLUTION SOURCES

DER

JUN 28 1982

BAQM

SOURCE TYPE: City Utility/Gas Diesel [] New<sup>1</sup> [ ] Existing<sup>1</sup>

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

COMPANY NAME: Utilities Commission, City of New Smyrna Beach COUNTY: Volusia

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) Swoope Unit 3 Gas Diesel

SOURCE LOCATION: Street 2495 N. Dixie Highway City New Smyrna Beach

UTM: East 505.8 North 3214.8

Latitude 29 ° 03 ' 47 "N Longitude 80 ° 56 ' 25 "W

APPLICANT NAME AND TITLE: Utilities Commission, City of New Smyrna Beach

APPLICANT ADDRESS: PO Box 519, New Smyrna Beach, FL 32069

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Utilities Commission, City of New Smyrna Beach, FL

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

\*Attach letter of authorization

Signed: *P. A. Korelich*

P. A. Korelich, Chief Engineer  
Name and Title (Please Type)

Date: 6/24/82 Telephone No. 904-427-1361

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

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed: *David A. Buff*

David A. Buff, P.E.  
Name (Please Type)

(Affix Seal)

Environmental Science and Engineering, Inc.  
Company Name (Please Type)

PO Box ESE, Gainesville, Florida 32602  
Mailing Address (Please Type)

Florida Registration No. 19011 Date: 6/22/82 Telephone No. (904) 372-3318

<sup>1</sup>See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

**SECTION II: GENERAL PROJECT INFORMATION**

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

Installation and operation of diesel generating unit. Unit will be  
natural gas fired with 6 percent heat input from No. 2 oil as pilot  
fuel. Unit is rated at 2880 BHP with generating capacity of 2050 KW.

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

Start of Construction upon permit issuance Completion of Construction December 1982

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

Not Applicable

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

No previous DER permits have been issued for this unit

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? Yes  No

F. Normal equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ; if power plant, hrs/yr 8760 ; if seasonal, describe: \_\_\_\_\_

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

- |   |            |
|---|------------|
| 1. Is this source in a non-attainment area for a particular pollutant?  | <u>No</u>  |
| a. If yes, has "offset" been applied?   | _____      |
| b. If yes, has "Lowest Achievable Emission Rate" been applied?  | _____      |
| c. If yes, list non-attainment pollutants.  | _____      |
| 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.  | <u>Yes</u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. | <u>Yes</u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?  | <u>No</u>  |
| 5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?                                       | <u>No</u>  |

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

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

A. Raw Materials and Chemicals Used in your Process, if applicable: Not Applicable

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

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

1. Total Process Input Rate (lbs/hr): Not Applicable
2. Product Weight (lbs/hr): Not Applicable

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Nitrogen Oxides	57.1	250	NA	NA	57.1	250	B
Particulate	0.25	1	NA	NA	0.25	1	B
Sulfur Dioxide	0.42	2	NA	NA	0.42	2	B
Carbon Monoxide	8.9	39	NA	NA	8.9	39	B
Hydrocarbons	2.5	11	NA	NA	2.5	11	B

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )

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

<sup>2</sup> Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table ii, E. (1), F.A.C. - 0.1 pounds per million BTU heat input)

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

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

<sup>5</sup> If Applicable

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Natural Gas (ft <sup>3</sup> )	17,600	17,600	18.05
No. 2 Fuel Oil (gallons)	8.2	8.2	1.15

\*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis: Natural Gas/Pilot Fuel Oil  
 Percent Sulfur: Trace/0.2 Percent Ash: Ng/Ng  
 Density: NA/7.21 lbs/gal Typical Percent Nitrogen: Ng/0.2  
 Heat Capacity: 1026 Btu/ft<sup>3</sup>/19,430 BTU/lb NA/140,090 BTU/gal  
 Other Fuel Contaminants (which may cause air pollution): None

F. If applicable, indicate the percent of fuel used for space heating. Annual Average NA Maximum NA

G. Indicate liquid or solid wastes generated and method of disposal.  
All liquid and solid wastes will be disposed of in either a sanitary sewage system or sanitary landfill.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):  
 Stack Height: 20 ft Stack Diameter: 22 inches ft-  
 Gas Flow Rate: 21,200 ACFM Gas Exit Temperature: 700 °F.  
 Water Vapor Content: 5 % Velocity: 135 FPS

SECTION IV: INCINERATOR INFORMATION

Not Applicable

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste \_\_\_\_\_  
 Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_  
 Approximate Number of Hours of Operation per day \_\_\_\_\_ days/week \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_



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

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

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

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

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

Brief description of operating characteristics of control devices: \_\_\_\_\_

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

### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- Total process input rate and product weight – show derivation. Not Applicable
- To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made. See Attachment B
- Attach basis of potential discharge (e.g., emission factor, that is, AP42 test). See ATTACHMENT B
- With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.). Not Applicable
- With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency). Not Applicable
- An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained. See ATTACHMENT C
- An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map). See ATTACHMENT D
- An 8½" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram. See ATTACHMENT E

- 9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
- 10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?  
 Yes  No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)  Yes  No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

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

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

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

- |                           |                      |
|---------------------------|----------------------|
| 1. Control Device/System: | 4. Capital Costs:    |
| 2. Operating Principles:  | 6. Operating Costs:  |
| 3. Efficiency: *          | 8. Maintenance Cost: |
| 5. Useful Life:           |                      |
| 7. Energy:                |                      |
| 9. Emissions:             |                      |

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

\*Explain method of determining D 3 above.

10. Stack Parameters

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

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

1. See Part F

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

2.

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

\*Explain method of determining efficiency.

\*\*Energy to be reported in units of electrical power – KWH design rate.

3.

- a. Control Device:
- b. Operating Principles:
  
- c. Efficiency\*:
- d. Capital Cost:
- e. Life:
- f. Operating Cost:
- g. Energy:
- h. Maintenance Cost:

\*Explain method of determining efficiency above.

- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space and operate within proposed levels:

4.

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

F. Describe the control technology selected:

See Item 10

- 1. Control Device:
- 2. Efficiency\*:
- 3. Capital Cost:
- 4. Life:
- 5. Operating Cost:
- 6. Energy:
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:

a.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:
- (5) Environmental Manager:
- (6) Telephone No.:

\*Explain method of determining efficiency above.

(7) Emissions\*:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate\*:

b.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions\*:

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

(8) Process Rate\*:

10. Reason for selection and description of systems:

The BACT proposed for NO<sub>x</sub> is natural gas firing with the ignition timing set as recommended by the manufacturer. Lower NO<sub>x</sub> emissions could be achieved by retarding the pilot fuel injection but this would be at the cost of decreasing fuel efficiency. Since air quality impacts are only 16 percent of the standard, optimum fuel efficiency is considered the best available control technology.

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data Not Applicable

1. \_\_\_\_\_ no sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ Wind spd/dir

Period of monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

2. Instrumentation, Field and Laboratory

a) Was instrumentation EPA referenced or its equivalent? \_\_\_\_\_ Yes \_\_\_\_\_ No

b) Was instrumentation calibrated in accordance with Department procedures? \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Unknown

B. Meteorological Data Used for Air Quality Modeling

1. 1 Year(s) of data from 1 / 1 / 64 to 12 / 31 / 64  
 month day year month day year

2. Surface data obtained from (location) \_\_\_\_\_ NA

3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_ NA

4. Stability wind rose (STAR) data obtained from (location) Daytona (WBAN 12834)

C. Computer Models Used

1. Industrial Source Complex Long Term Modified? If yes, attach description.

2. \_\_\_\_\_ Modified? If yes, attach description.

3. \_\_\_\_\_ Modified? If yes, attach description.

4. \_\_\_\_\_ Modified? If yes, attach description.

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

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
<del>PM</del> NO <sub>x</sub>	<u>7.2</u> grams/sec
<del>SO<sub>2</sub></del>	_____ grams/sec

E. Emission Data Used in Modeling see Permit Application and ATTACHMENT F

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

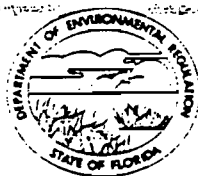
F. Attach all other information supportive to the PSD review. See ATTACHMENT F

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

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

The installation of this unit will improve the reliability of the community electrical system without significant social, economic, or environmental impacts.

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



AC 64-59580

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
APPLICATION TO OPERATE/CONSTRUCT  
AIR POLLUTION SOURCES

DER

JUN 28 1982

BAQM

SOURCE TYPE: City Utility/Gas Diesel  New<sup>1</sup>  Existing<sup>1</sup>  
APPLICATION TYPE:  Construction  Operation  Modification  
COMPANY NAME: Utilities Commission, City of New Smyrna Beach COUNTY: Volusia

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) Swoope Unit 4 Gas Diesel

SOURCE LOCATION: Street 2495 N. Dixie Highway City New Smyrna Beach  
UTM: East 505.8 North 3214.8  
Latitude 29 ° 03 ' 47 " N Longitude 80 ° 56 ' 25 " W

APPLICANT NAME AND TITLE: Utilities Commission, City of New Smyrna Beach  
APPLICANT ADDRESS: PO Box 519, New Smyrna Beach, FL 32069

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Utilities Commission, City of New Smyrna Beach, FL

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

\*Attach letter of authorization

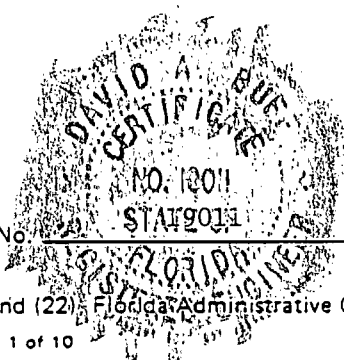
Signed: *P. A. Korelich*  
P. A. Korelich, Chief Engineer  
Name and Title (Please Type)  
Date: 6/24/82 Telephone No. 904-427-1361

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

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed: *David A. Buff*  
David A. Buff, P.E.  
Name (Please Type)  
Environmental Science and Engineering, Inc.  
Company Name (Please Type)  
PO Box ESE, Gainesville, Florida 32602  
Mailing Address (Please Type)  
Date: 6/22/82 Telephone No. (904) 372-3318

(Affix Seal)



Florida Registration No. 10011

<sup>1</sup>See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

**SECTION II: GENERAL PROJECT INFORMATION**

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

Installation and operation of diesel generating unit. Unit will be natural gas  
fired with 6 percent heat input from No. 2 oil as pilot fuel. Unit is rated  
at 3168 BHP with generating capacity of 2275 kw.

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

Start of Construction upon permit issuance Completion of Construction December 1982

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

Not Applicable

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

No previous DER permits have been issued for this unit

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code?      Yes   X   No

F. Normal equipment operating time: hrs/day   24  ; days/wk   7  ; wks/yr   52  ; if power plant, hrs/yr  8760 ; if seasonal, describe: \_\_\_\_\_

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

- |   |                    |
|---|--------------------|
| 1. Is this source in a non-attainment area for a particular pollutant?  | <u>    No    </u>  |
| a. If yes, has "offset" been applied?   | _____              |
| b. If yes, has "Lowest Achievable Emission Rate" been applied?  | _____              |
| c. If yes, list non-attainment pollutants.  | _____              |
| 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.  | <u>    Yes    </u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. | <u>    Yes    </u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?  | <u>    No    </u>  |
| 5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?                                       | <u>    No    </u>  |

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable. See Attachment A



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

A. Raw Materials and Chemicals Used in your Process, if applicable: Not Applicable

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

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

1. Total Process Input Rate (lbs/hr): Not Applicable

2. Product Weight (lbs/hr): Not Applicable

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Nitrogen Oxides	55.9	245	NA	NA	55.9	245	B
Particulate	0.28	1	NA	NA	0.28	1	B
Sulfur Dioxide	0.47	2	NA	NA	0.47	2	B
Carbon Monoxide	9.8	43	NA	NA	9.8	43	B
Hydrocarbons	3.5	15	NA	NA	3.5	15	B

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )

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

<sup>2</sup>Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. – 0.1 pounds per million BTU heat input)

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

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

<sup>5</sup>If Applicable

E. Fuels.

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
Natural Gas (ft <sup>3</sup> )	19,300	19,300	19.85
No. 2 Fuel Oil (gallons)	9.1	9.1	1.27

\*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis: Natural Gas/Pilot Fuel Oil

Percent Sulfur: Trace/0.2 Percent Ash: Neg/Neg

Density: NA/7.21 lbs/gal Typical Percent Nitrogen: Neg/0.2

Heat Capacity: 1026 Btu/ft<sup>3</sup>/19430 BTU/lb NA/140,090 BTU/gal

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

F. If applicable, indicate the percent of fuel used for space heating. Annual Average NA Maximum NA

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

All liquid and solid wastes will be disposed of in either sanitary sewer system or sanitary land fill

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

Stack Height: 20 ft. Stack Diameter: 22 inches ~~XX~~

Gas Flow Rate: 23,320 ACFM Gas Exit Temperature: 700 °F.

Water Vapor Content: 5 % Velocity: 145 FPS

SECTION IV: INCINERATOR INFORMATION

Not Applicable

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ days/week \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

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

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

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

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

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

Brief description of operating characteristics of control devices: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

- Total process input rate and product weight — show derivation. Not Applicable
- To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made. See Attachment B
- Attach basis of potential discharge (e.g., emission factor, that is, AP42 test). See Attachment B
- With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.). Not Applicable
- With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency). Not Applicable
- An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained. See Attachment C
- An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map). See Attachment D
- An 8½" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram. See Attachment E

- 9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
- 10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?  
 Yes  No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)  Yes  No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?  
 Yes  No

Contaminant	See Section IIIC Rate or Concentration

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

- |                           |                      |
|---------------------------|----------------------|
| 1. Control Device/System: | 4. Capital Costs:    |
| 2. Operating Principles:  | 5. Operating Costs:  |
| 3. Efficiency: *          | 6. Maintenance Cost: |
| 7. Useful Life:           |                      |
| 8. Energy:                |                      |
| 9. Emissions:             |                      |

Contaminant	Rate or Concentration

\*Explain method of determining D 3 above.

10. Stack Parameters

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

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

1. See Part F

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

2.

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

\*Explain method of determining efficiency.

\*\*Energy to be reported in units of electrical power – KWH design rate.

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency\*:
- d. Capital Cost:
- e. Life:
- f. Operating Cost:
- g. Energy:
- h. Maintenance Cost:

\*Explain method of determining efficiency above.

- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space and operate within proposed levels:

4.

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

F. Describe the control technology selected:

See Item 10

- 1. Control Device:
- 2. Efficiency\*:
- 3. Capital Cost:
- 4. Life:
- 5. Operating Cost:
- 6. Energy:
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:

a.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:
- (5) Environmental Manager:
- (6) Telephone No.:

\* Explain method of determining efficiency above.

(7) Emissions\*:

Contaminant	Rate or Concentration

(8) Process Rate\*:

b.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

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

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions\*:

Contaminant	Rate or Concentration

(8) Process Rate\*:

10. Reason for selection and description of systems:

The BACT proposed for NOx is natural gas firing with the ignition timing set as recommended by the manufacturer. Lower NOx emissions could be achieved by retarding the pilot fuel injection, but at the cost of decreasing fuel efficiency. Since air quality impacts are only 16 percent of the standard optimum fuel efficiency is considered the best available control technology.

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

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data Not Applicable

1. \_\_\_\_\_ no sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub> • \_\_\_\_\_ Wind spd/dir

Period of monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

2. Instrumentation, Field and Laboratory

a) Was instrumentation EPA referenced or its equivalent? \_\_\_\_\_ Yes \_\_\_\_\_ No

b) Was instrumentation calibrated in accordance with Department procedures? \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Unknown

B. Meteorological Data Used for Air Quality Modeling

1. 1 Year(s) of data from 1 / 1 / 64 to 12 / 31 / 64  
 month day year month day year

2. Surface data obtained from (location) NA

3. Upper air (mixing height) data obtained from (location) NA

4. Stability wind rose (STAR) data obtained from (location) Daytona (WBAN 12834)

C. Computer Models Used

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

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

D. Applicants Maximum Allowable Emission Data

XXXXXXXX	NOx	Emission Rate
Pollutant		
XXX		<u>7.0</u> grams/sec
TSP		
SO <sub>2</sub>		_____ grams/sec

E. Emission Data Used in Modeling see permit application and Attachment F

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

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

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

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

The installation of this unit will improve the reliability of the community electrical system without significant social, economic, or environmental impacts.

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



ATTACHMENT A

(Reference to Permit Section II)

1. Volusia County is not a non-attainment area for any pollutant.
- 2&3. The existing plant is not a major source for any pollutant so PSD review does not apply to any pollutant that does not increase 250 TPY with this modification. PSD Section (Attachment F) Table F-1, shows that the proposed expansion is a major source for nitrogen dioxide, thus both BACT and PSD review apply for this pollutant.
4. On July 23, 1979, NSPS were proposed for internal combustion engines; these standards were to become effective for engines which commenced construction after January 23, 1982, and would be applicable to dual fuel engines with displacements greater than 560 cubic inches per cylinder. The two proposed units each have a displacement of 1037 cubic inches per cylinder and would be required to meet the standard. However, these standards have not yet been adopted by law.
5. NESHAPS regulations do not apply to this type of source.

**Colt Industries**



**Fairbanks Morse  
Engine Division**  
701 Lawton Avenue  
Beloit, Wisconsin 53511  
608/364-4411

(206608)1

June 11, 1982

Environmental Science & Engr, Inc.  
P. O. Box #ESE  
Gainesville, Florida 32602

Attention: Mr. Michael H. Dybevic

Subject: Two (2) 12 Cyl - 38TDD 8-1/8 OP Engines  
Relocated Gensets  
Exhaust Emissions Data

Dear Mr. Dybevic:

At the request of our customer, Mr. Ed Berrier - Plant Supt. at the New Smyrna Beach Generating Facility, we have been instructed to advise you directly as to the exhaust emissions relative to the two (2) units planned for this installation. The data is as follows:

Unit No. 1 - 12 Cyl 38TDD 8-1/8 OP - Turbo Blower Series  
Rated 2880 BHP @ 720 RPM - S/N 970348

Swoope #3

Mode	Diesel	Dual Fuel
NOx - GM/BHP-HR	10.0	9.0
CO - GM/BHP-HR	1.2	1.4
HC - GM/BHP-HR	.3	.4
* Particulate - GM/BHP-HR	.16	.04
* SO2 - GM/BHP-HR	1.0	.1
Smoke - Bosch Units	.8	.2

*based on 0.3% S →* (pointing to SO2)  
*non-methane* (pointing to HC)

Unit No. 2 - 12 Cyl - 38TDD 8-1/8 OP - Turbo Blower Series  
Rated 3168 BHP @ 720 RPM - S/N 873068

Swoope #4

Mode	Diesel	Dual Fuel
NOx - GM/BHP-HR	9.0	8.0
CO - GM/BHP-HR	1.2	1.4
HC - GM/BHP-HR	.3	1.2
* Particulate - GM/BHP-HR	.18	.04
* SO2 - GM/BHP-HR	1.0	.1
Smoke - Bosch Units	.9	.2

*based on 0.3% S →* (pointing to SO2)  
*this is total HC by mistake, Non-methane is ~0.5* (pointing to HC)  
*(conversion with E.C. Betker 6/18/82)*

Environmental Science & Engr, Inc.  
Gainesville, Florida 32602  
June 11, 1982  
Page 2

All Emission Values are for typical injection timings at each rating.  
These valves (\*) are calculated from smoke emissions and for .3% sulfur  
fuel.

Should any additional information be required with respect to the foregoing,  
please feel free to contact the writer at your convenience.

Very truly yours,

COLT INDUSTRIES OPERATING CORP  
FAIRBANKS MORSE ENGINE DIVISION



E. L. Betker  
Contract Administrator

ELB:flb

cc: Al Belvedere - Beloit  
Ed Berrier - New Smyrna Beach, Fla.  
H. Dahlman - Beloit  
H. Keinschrodt - Daytona Beach, Fla.  
W. Marx - Houston Sales



**SGS Control Services Inc.**

Redwood Petroleum and Petrochemical division

825 Wynkoop Road  
 PO Box 5351  
 Tampa, Florida 33675  
 Tel (813) 247-3984  
 TWX (810) 876-2927

to accompany Certificate No

**Analysis Certificate**

June 7, 1982

TO WHOM IT MAY CONCERN

Corrected Certificate

**ENGINEERING**

JUN 24 1982

UTILITIES COMMISSION  
 NEW SMYRNA BEACH, FL

Vessel Shore Tank No. 18  
 Receiver \*Belcher Oil Company, Port Canaveral, Florida  
 Cargo No. 2 Fuel Oil

File No. 37434

Sample Marked Shore Tank No. 18 (Top, Middle and Bottom) (6-4-82)  
 Lab Reference No LP-2070-82  
 Sample Description No. 6 Fuel Oil  
 Submitted By SGS Control Services Inc.

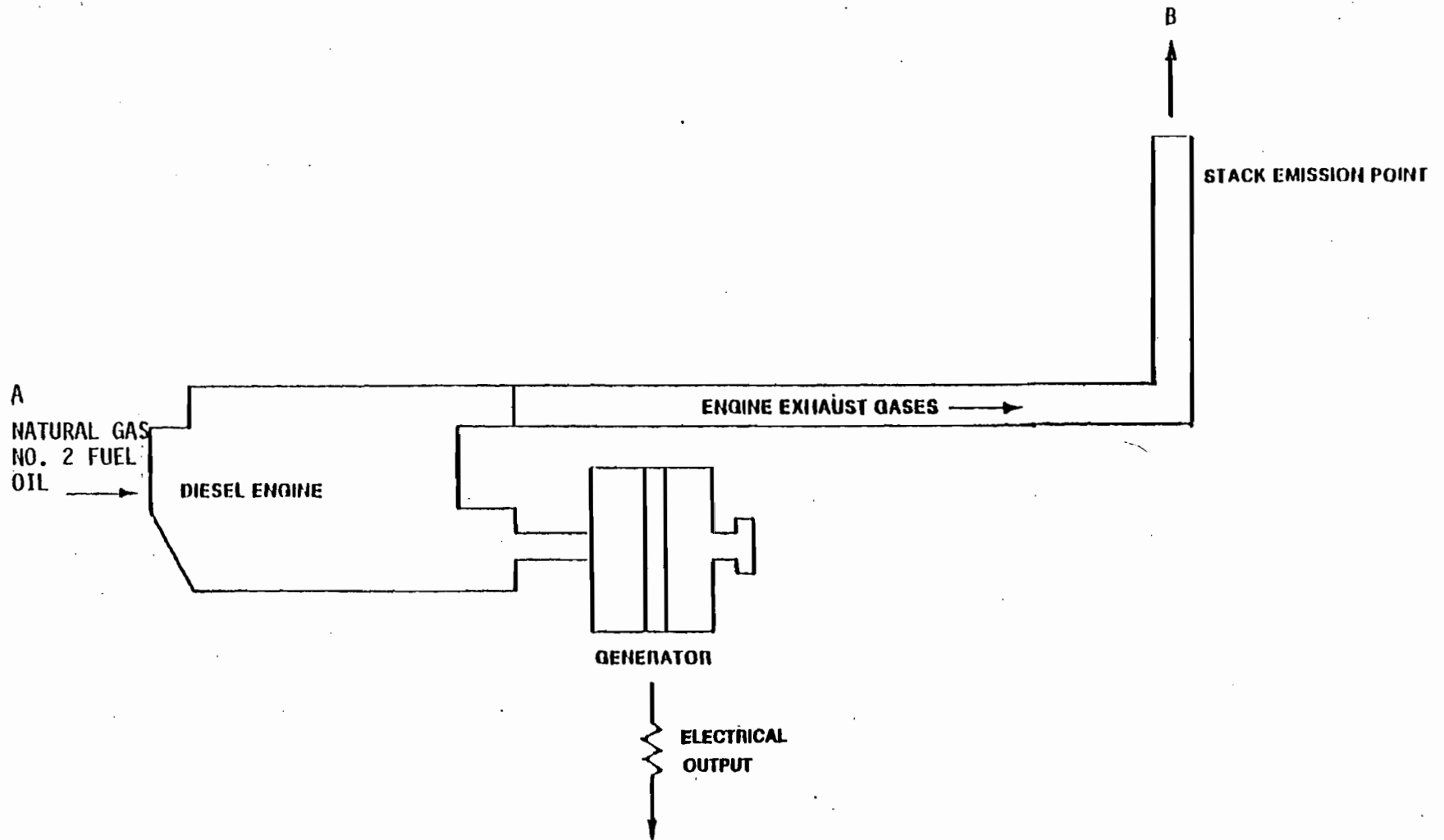
In accordance with your instructions per Mr. Dick Reed, we proceeded to Belcher Oil Company, Port Canaveral, Florida on June 4, 1982 for the purpose of drawing a top, middle and bottom sample from Shore Tank No. 18. A portion of this sample was submitted to our Tampa laboratory for analytical findings. We now report to you as follows:

TEST	METHOD	RESULT
GRAVITY, A.P.I. @ 60°F	ASTM D-287	36.8
FLASH, °F (PMCC)	ASTM D-93	150
SEDIMENT & WATER, VOL. %	ASTM D-96	Trace
S.U.S. VISCOSITY, @ 100°F	ASTM D-445	33.5
POUR POINT, °F	ASTM D-97	Below 0°F
SULFUR, WT. %	ASTM D-1552	0.12
RAMSBOTTOM CARBON RES., WT. % (10% BOTTOM)	ASTM D-524	0.14
CETANE INDEX	ASTM D-976	45.4
DISTILLATION, °F	ASTM D-86 I.B.P.	356
	5%	388
	10%	404
	20%	422
	90%	570
	END POINT	634
	% RECOVERY	98.5
% LOSS	1.5	
TRACE METALS	A.A. CALICUM, ppm	None Detected
	LEAD, ppm	0.3
	POTASSIUM, ppm	0.1
	SODIUM, ppm	0.1
	VANADIUM, ppm	0.2

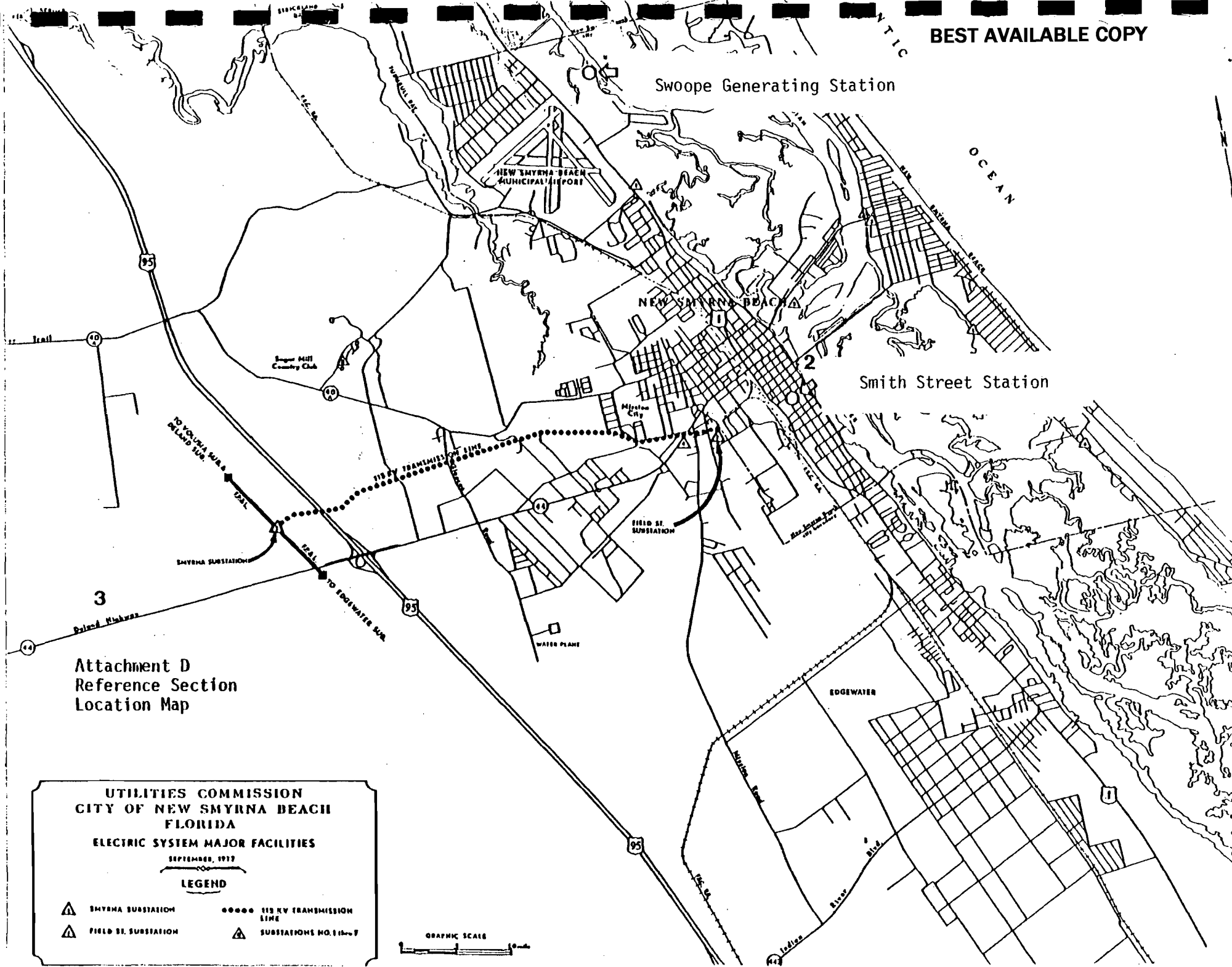
SGS CONTROL SERVICES INC.

B. S. Schagen  
 Operations Department

RSS/sl



Attachment C: Reference Section V 6  
**FLOW DIAGRAM**



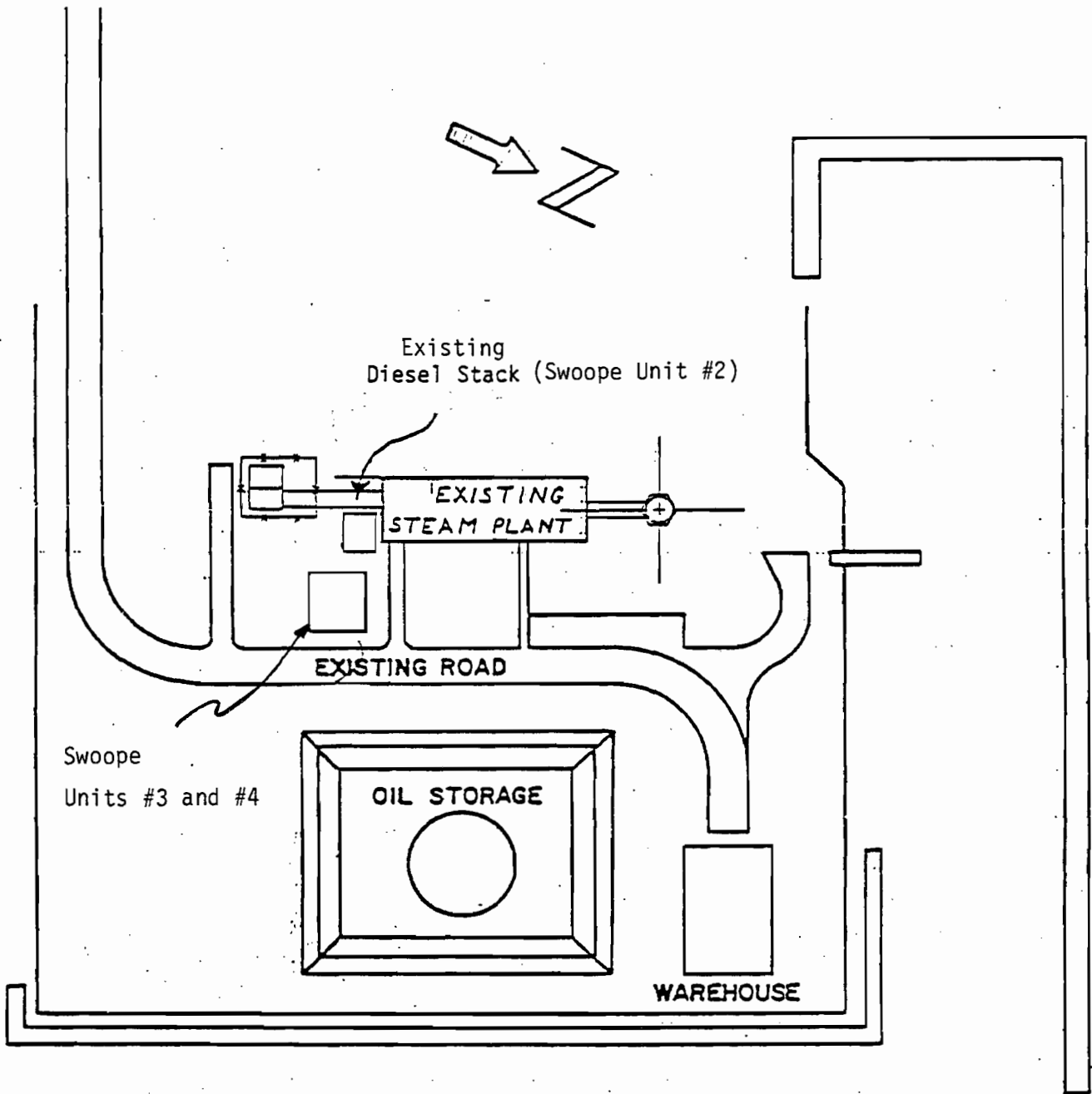
Attachment D  
Reference Section  
Location Map

UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH  
FLORIDA  
ELECTRIC SYSTEM MAJOR FACILITIES  
SEPTEMBER, 1977

**LEGEND**

▲ SMYRNA SUBSTATION	●●●●● 115 KV TRANSMISSION LINE
▲ FIELD ST. SUBSTATION	▲ SUBSTATIONS NO. 1 thru 7

GRAPHIC SCALE 0 1/2 mile



INTRACOASTAL WATERWAY

Attachment E  
Reference Section V 7  
Utility Plot Plan

REV.		UTILITIES COMMISSION	
DATE		CITY OF NEW SMYRNA BEACH, FL.	
BY		Swoope Generating Station- Plot Plan	
REVISIONS	DWN. <i>RLW</i>	SCALE <i>SHOWN</i>	REV. 0
	CKD.	DATE <i>3-3-81</i>	<i>SAA-109</i>
	APP.		

ATTACHMENT F  
PSD ANALYSIS

The Swoope Generating Station currently consists of a  $116 \times 10^6$  Btu/hr steam generator (Swoope #1) and a 910 KW gas diesel generator (Swoope #2), which is limited by permit condition to a 70 percent capacity factor. Neither of these sources are in a category listed in 40 CFR 52.21 or FAC 17-2, and Table F-1 shows that current emission levels of all pollutants are below 250 TPY. The current configuration is therefore not a major source.

The proposed modification is an addition of two more gas diesel units, and an increase to 100 percent capacity factor for Swoope #2. Table F-1 shows that the change would be a major source for NOx only, and requires PSD review for this pollutant. The source description and control technology review components of the PSD review are contained in the accompanying construction permit application. This attachment describes the air quality impact analysis and its results.

Both state and federal regulations contain only annual average standards for NOx, so modeling was performed with the EPA approved ISC long term model. One year (1964) of surface observations from Daytona International Airport were summarized in STAR format and input to the model. The stack parameters are shown in Table F-2. A rectangular grid with 100 meter spacing was used, and all sources were assumed to emit at maximum allowable rates 24 hours a day, every day of the year. The attached computer output contains the results of two model runs. The first run modeled the impacts of the entire plant, the second run modeled the impacts of the two new units (Swoope #3 and #4) and the increased emissions due to the increased capacity factor for Swoope #2.

Both state and federal regulations require pre-construction monitoring unless the impacts of the modification are below certain de minimis levels. For NOx, the de minimis level is  $14 \text{ ug/m}^3$ , annual average. The maximum impact of the proposed modification is  $11 \text{ ug/m}^3$ , and therefore the project may be exempted from the PSD pre-construction monitoring requirement.

The state and federal air quality standard for NOx is  $100 \text{ ug/m}^3$ . The highest predicted annual average impact due to the Swoope Generating Station is  $16 \text{ ug/m}^3$ . The only other major point source of NOx within 40 km is the New Smyrna Beach Smith Street station (see Attachment D). Since the Smith Street station also consists of gas diesels, and the maximum impacts of the Swoope Generating Station were small relative to the standard and occurred within 800 meters of the plant, no other sources were modeled for interaction. The nearest NOx monitoring data available are from a gas bubbler station located 1.5 miles north of the FPL Sanford power plant, about 25 miles southwest of the Swoope Station, (site code 10-4600-001-J-02). In 1980, the annual average NOx concentration at this site was  $22.5 \text{ ug/m}^3$ . Even if this value was used directly as a background concentration, the projected impacts of the Swoope Generating Station are low enough to provide reasonable assurance that air quality standards will not be exceeded.



Table F-1. Annual Emissions From Swoope Generating Station

	Particulate Matter	Sulfur Dioxide	Carbon Monoxide	Nitrogen Oxides	Hydrocarbons
<u>Current</u>					
Swoope #1 (steam)*	27	1	5	140	8
Swoope #2 (diesel)*	<u>0.1</u>	<u>0.3</u>	<u>12</u>	<u>94</u>	<u>37</u>
Total	27	1	17	234	45
<u>Projected</u>					
Swoope #1 (steam)*	27	1	5	140	8
Swoope #2 (diesel)* (at 100% capacity factor)	0.2	0.4	17	134	53
Swoope #3 (diesel)+	1	2	39	250	11
Swoope #4 (diesel)+	<u>1</u>	<u>2</u>	<u>43</u>	<u>245</u>	<u>15</u>
Total	29	5	104	769	87
Net Increase	2	4	87	535	42

\*based on Swoope #2 permit application (AC64-43484) and revisions in June 26, 1981, letter to C. M. Collins FDER ST. Johns River District from K. F. Kosky, ESE, Inc.

+based on manufacturers letter, Attachment B.

Note: Swoope #2 hydrocarbons reported as total HC, Swoope #3 and #4 reported as non-methane.

Table F-2. Modeling Parameters - Swoope Generating Station

Source	NOx Emission Rate (g/s)	Stack Height (m)	Gas Temperature (k)	Exist Velocity (m/s)	Diameter (m)
Swoope #1	4.04	38.1	644	9.5	1.38
Swoope #2	3.84	6.1	589	43.9	0.36
Swoope #3	7.2	6.1	644	41.2	0.56
Swoope #4	7.0	6.1	644	44.2	0.56

- ISCLT INPUT DATA -

*and new only*

NUMBER OF SOURCES = 3/2  
 NUMBER OF X AXIS GRID SYSTEM POINTS = 21  
 NUMBER OF Y AXIS GRID SYSTEM POINTS = 21  
 NUMBER OF SPECIAL POINTS = 5  
 NUMBER OF SEASONS = 1  
 NUMBER OF WIND SPEED CLASSES = 6  
 NUMBER OF STABILITY CLASSES = 5  
 NUMBER OF WIND DIRECTION CLASSES = 16  
 FILE NUMBER OF DATA FILE USED FOR REPORTS = 1  
 THE PROGRAM IS RUN IN RURAL MODE  
 CONCENTRATION (DEPOSITION) UNITS CONVERSION FACTOR = 0.10000000E+07  
 ACCELERATION OF GRAVITY (METERS/SEC\*\*2) = 9.800  
 HEIGHT OF MEASUREMENT OF WIND SPEED (METERS) = 7.000  
 ENTRAINMENT PARAMETER FOR UNSTABLE CONDITIONS = 2.600  
 ENTRAINMENT PARAMETER FOR STABLE CONDITIONS = 0.600  
 CORRECTION ANGLE FOR GRID SYSTEM VERSUS DIRECTION DATA NORTH (DEGREES) = 0.000  
 DECAY COEFFICIENT = 0.00000000E+00  
 PROGRAM OPTION SWITCHES = 1, 1, 1, 0, 0, 3, 2, 2, 3, 0, 0, 0, 0, -1, -1, 0, 0, 1, 1, 0,

ALL SOURCES ARE USED TO FORM SOURCE COMBINATION 1  
 DISTANCE X AXIS GRID SYSTEM POINTS (METERS) = -1000.00, -900.00, -800.00, -700.00, -600.00, -500.00,  
 -400.00, -300.00, -200.00, -100.00, 0.00, 100.00, 200.00, 300.00, 400.00, 500.00,  
 600.00, 700.00, 800.00, 900.00, 1000.00,  
 DISTANCE Y AXIS GRID SYSTEM POINTS (METERS) = -1000.00, -900.00, -800.00, -700.00, -600.00, -500.00,  
 -400.00, -300.00, -200.00, -100.00, 0.00, 100.00, 200.00, 300.00, 400.00, 500.00,  
 600.00, 700.00, 800.00, 900.00, 1000.00,

- AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -

	STABILITY CATEGORY 1	STABILITY CATEGORY 2	STABILITY CATEGORY 3	STABILITY CATEGORY 4	STABILITY CATEGORY 5	STABILITY CATEGORY 6
SEASON 1	300.0000	300.0000	300.0000	295.0000	289.0000	

- MIXING LAYER HEIGHT (METERS) -

	SEASON 1					
	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 10	0.218400E+04	0.218400E+04	0.218400E+04	0.218400E+04	0.218400E+04	0.218400E+04
STABILITY CATEGORY 20	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04
STABILITY CATEGORY 30	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04
STABILITY CATEGORY 40	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04	0.145600E+04
STABILITY CATEGORY 50	0.100000E+05	0.100000E+05	0.100000E+05	0.100000E+05	0.100000E+05	0.100000E+05

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- ISCLT INPUT DATA (CONT.) - *and new only*

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 1

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (0.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
0.000	0.00004700	0.00011400	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00004700	0.00011400	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00016100	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00020800	0.00011400	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00014100	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00023400	0.00056900	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00014100	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00004700	0.00011400	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

SEASON 1

STABILITY CATEGORY 2

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (0.7500MPS)	WIND SPEED CATEGORY 2 (2.5000MPS)	WIND SPEED CATEGORY 3 (4.3000MPS)	WIND SPEED CATEGORY 4 (6.8000MPS)	WIND SPEED CATEGORY 5 (9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
0.000	0.00110700	0.00113800	0.00102500	0.00000000	0.00000000	0.00000000
22.500	0.00025700	0.00034200	0.00045500	0.00000000	0.00000000	0.00000000
45.000	0.00014300	0.00045500	0.00102500	0.00000000	0.00000000	0.00000000
67.500	0.00032900	0.00056900	0.00250500	0.00000000	0.00000000	0.00000000
90.000	0.00087300	0.00182100	0.00318000	0.00000000	0.00000000	0.00000000
112.500	0.00066400	0.00068300	0.00091100	0.00000000	0.00000000	0.00000000
135.000	0.00007200	0.00022800	0.00045500	0.00000000	0.00000000	0.00000000
157.500	0.00051500	0.00068300	0.00022800	0.00000000	0.00000000	0.00000000
180.000	0.00092200	0.00102500	0.00045500	0.00000000	0.00000000	0.00000000
202.500	0.00003600	0.00011400	0.00068300	0.00000000	0.00000000	0.00000000
225.000	0.00066400	0.00068300	0.00102500	0.00000000	0.00000000	0.00000000
247.500	0.00103600	0.00091100	0.00136600	0.00000000	0.00000000	0.00000000
270.000	0.00062200	0.00102500	0.00113800	0.00000000	0.00000000	0.00000000
292.500	0.00043700	0.00091100	0.00034200	0.00000000	0.00000000	0.00000000
315.000	0.00122100	0.00102500	0.00045500	0.00000000	0.00000000	0.00000000
337.500	0.00043700	0.00091100	0.00034200	0.00000000	0.00000000	0.00000000

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- ISCLT INPUT DATA (CONT.) - <sup>and new only</sup>

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 3

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 ( 0.7500MPS)	WIND SPEED CATEGORY 2 ( 2.5000MPS)	WIND SPEED CATEGORY 3 ( 4.3000MPS)	WIND SPEED CATEGORY 4 ( 6.8000MPS)	WIND SPEED CATEGORY 5 ( 9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
0.000	0.00067800	0.00170800	0.00330100	0.00148000	0.00045500	0.00000000
22.500	0.00013200	0.00056900	0.00421199	0.00227700	0.00011400	0.00000000
45.000	0.00027300	0.00056900	0.00455400	0.00227700	0.00011400	0.00000000
67.500	0.00007900	0.00034200	0.00762799	0.00466799	0.00034200	0.00000000
90.000	0.00029100	0.00125200	0.01229499	0.00853799	0.00000000	0.00000000
112.500	0.00015900	0.00068300	0.00557799	0.00318800	0.00034200	0.00000000
135.000	0.00032600	0.00079700	0.00182100	0.00034200	0.00000000	0.00000000
157.500	0.00010600	0.00045500	0.00193500	0.00034200	0.00000000	0.00000000
180.000	0.00053700	0.00170800	0.00318800	0.00045500	0.00000000	0.00000000
202.500	0.00015900	0.00068300	0.00296000	0.00056900	0.00022800	0.00000000
225.000	0.00059000	0.00193500	0.00421199	0.00102500	0.00000000	0.00000000
247.500	0.00055600	0.00239100	0.00432600	0.00011400	0.00000000	0.00000000
270.000	0.00123100	0.00227700	0.00261800	0.00136600	0.00000000	0.00000000
292.500	0.00090500	0.00148000	0.00204900	0.00011400	0.00011400	0.00000000
315.000	0.00037000	0.00159400	0.00125200	0.00022800	0.00000000	0.00000000
337.500	0.00021200	0.00091100	0.00227700	0.00022800	0.00000000	0.00000000

SEASON 1

STABILITY CATEGORY 4

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 ( 0.7500MPS)	WIND SPEED CATEGORY 2 ( 2.5000MPS)	WIND SPEED CATEGORY 3 ( 4.3000MPS)	WIND SPEED CATEGORY 4 ( 6.8000MPS)	WIND SPEED CATEGORY 5 ( 9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
0.000	0.00122200	0.00387100	0.01411698	0.03403896	0.01206699	0.00113800
22.500	0.00040300	0.00125200	0.00751399	0.01445798	0.00170800	0.00022800
45.000	0.00023500	0.00091100	0.00648899	0.01092899	0.00113800	0.00022800
67.500	0.00047000	0.00182100	0.01001799	0.01718998	0.00125200	0.00011400
90.000	0.00055100	0.00250500	0.02014998	0.02834697	0.00159400	0.00022800
112.500	0.00035600	0.00193500	0.01343399	0.02128898	0.00216300	0.00011400
135.000	0.00053700	0.00239100	0.01126999	0.01092899	0.00227700	0.00000000
157.500	0.00034300	0.00182100	0.00922099	0.00637499	0.00125200	0.00022800
180.000	0.00076600	0.00432600	0.01434398	0.01354699	0.00296000	0.00079700
202.500	0.00055700	0.00148000	0.00853799	0.01104299	0.00296000	0.00079700
225.000	0.00064600	0.00284600	0.00546399	0.00751399	0.00250500	0.00056900
247.500	0.00081300	0.00364300	0.00455400	0.00899399	0.00102500	0.00045500
270.000	0.00055100	0.00250500	0.00523699	0.01115699	0.00260999	0.00239100
292.500	0.00037000	0.00204900	0.00489400	0.00375700	0.00273200	0.00068300
315.000	0.00112700	0.00387400	0.00694399	0.00671699	0.00068300	0.00034200
337.500	0.00132800	0.00261800	0.00922099	0.00648899	0.00113800	0.00068300

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- ISCLT INPUT DATA (CONT.) - *and new only*

- FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY -

SEASON 1

STABILITY CATEGORY 5

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 ( 0.7500MPS)	WIND SPEED CATEGORY 2 ( 2.5000MPS)	WIND SPEED CATEGORY 3 ( 4.3600MPS)	WIND SPEED CATEGORY 4 ( 6.8000MPS)	WIND SPEED CATEGORY 5 ( 9.5000MPS)	WIND SPEED CATEGORY 6 (12.5000MPS)
0.000	0.000694999	0.000842399	0.000591999	0.000000000	0.000000000	0.000000000
22.500	0.000428799	0.000523699	0.000432600	0.000000000	0.000000000	0.000000000
45.000	0.000372700	0.000546399	0.000182100	0.000000000	0.000000000	0.000000000
67.500	0.000357400	0.000478099	0.000432600	0.000000000	0.000000000	0.000000000
90.000	0.000888199	0.000183999	0.0001001799	0.000000000	0.000000000	0.000000000
112.500	0.000430499	0.000705799	0.000705799	0.000000000	0.000000000	0.000000000
135.000	0.0001047199	0.0001559698	0.000375700	0.000000000	0.000000000	0.000000000
157.500	0.000815999	0.0001172599	0.000364300	0.000000000	0.000000000	0.000000000
180.000	0.0001391298	0.0002402097	0.000660299	0.000000000	0.000000000	0.000000000
202.500	0.000745999	0.0001058699	0.000296000	0.000000000	0.000000000	0.000000000
225.000	0.000954299	0.0001218099	0.000296000	0.000000000	0.000000000	0.000000000
247.500	0.0001129099	0.0001377498	0.000318800	0.000000000	0.000000000	0.000000000
270.000	0.0001047599	0.0001024599	0.000352900	0.000000000	0.000000000	0.000000000
292.500	0.000750399	0.000853799	0.000148000	0.000000000	0.000000000	0.000000000
315.000	0.0001033499	0.0001422998	0.000557799	0.000000000	0.000000000	0.000000000
337.500	0.000776299	0.000944899	0.000535099	0.000000000	0.000000000	0.000000000

- VERTICAL POTENTIAL TEMPERATURE GRADIENT (DEGREES KELVIN/METER) -

STABILITY CATEGORY	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 10	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000
STABILITY CATEGORY 20	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000
STABILITY CATEGORY 30	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000
STABILITY CATEGORY 40	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000	0.000000E+000
STABILITY CATEGORY 50	0.200000E-010	0.200000E-010	0.200000E-010	0.200000E-010	0.200000E-010	0.200000E-010

- WIND PROFILE POWER LAW EXPONENTS -

STABILITY CATEGORY	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY 10	1.000000E+000	1.000000E+000	1.000000E+000	1.000000E+000	1.000000E+000	1.000000E+000
STABILITY CATEGORY 20	1.500000E+000	1.500000E+000	1.500000E+000	1.500000E+000	1.500000E+000	1.500000E+000
STABILITY CATEGORY 30	2.000000E+000	2.000000E+000	2.000000E+000	2.000000E+000	2.000000E+000	2.000000E+000
STABILITY CATEGORY 40	2.500000E+000	2.500000E+000	2.500000E+000	2.500000E+000	2.500000E+000	2.500000E+000
STABILITY CATEGORY 50	3.000000E+000	3.000000E+000	3.000000E+000	3.000000E+000	3.000000E+000	3.000000E+000



- SOURCE INPUT DATA -

C T SOURCE SOURCE X Y EMISSION BASE /  
 A A NUMBER TYPE COORDINATE COORDINATE HEIGHT ELEV- /  
 R P (M) (M) (M) ATION /  
 D E (M) /

- SOURCE DETAILS DEPENDING ON TYPE -

X 1 STACK 0.00 0.00 38.10 0.00 GAS EXIT TEMP (DEG K)= 644.00, GAS EXIT VEL. (M/SEC)= 9.50,  
*Swoope #1 Steam unit* STACK DIAMETER (M)= 1.380, HEIGHT OF ASSO. BLDG. (M)= 0.00, WIDTH OF  
 ASSO. BLDG. (M)= 0.00, WAKE EFFECTS FLAG = 0  
 - SOURCE STRENGTHS (GRAMS PER SEC) -  
 SEASON 1 SEASON 2 SEASON 3 SEASON 4  
 4.04000E+00

WARNING - DISTANCE BETWEEN SOURCE 1 AND POINT X,Y= 0.00, 0.00 IS LESS THAN PERMITTED  
 X 2 STACK 0.00 0.00 6.10 0.00 GAS EXIT TEMP (DEG K)= 589.00, GAS EXIT VEL. (M/SEC)= 43.90,  
*Swoope #2 Existing Diesel* STACK DIAMETER (M)= 0.360, HEIGHT OF ASSO. BLDG. (M)= 0.00, WIDTH OF  
 ASSO. BLDG. (M)= 0.00, WAKE EFFECTS FLAG = 0  
 - SOURCE STRENGTHS (GRAMS PER SEC) -  
 SEASON 1 SEASON 2 SEASON 3 SEASON 4  
 3.84000E+00

WARNING - DISTANCE BETWEEN SOURCE 2 AND POINT X,Y= 0.00, 0.00 IS LESS THAN PERMITTED  
 X 3 STACK 0.00 0.00 6.10 0.00 GAS EXIT TEMP (DEG K)= 644.00, GAS EXIT VEL. (M/SEC)= 42.70,  
*Swoope #3 (#4 Proposed Combined)* STACK DIAMETER (M)= 0.560, HEIGHT OF ASSO. BLDG. (M)= 0.00, WIDTH OF  
 ASSO. BLDG. (M)= 0.00, WAKE EFFECTS FLAG = 0  
 - SOURCE STRENGTHS (GRAMS PER SEC) -  
 SEASON 1 SEASON 2 SEASON 3 SEASON 4  
 1.42400E+01

WARNING - DISTANCE BETWEEN SOURCE 3 AND POINT X,Y= 0.00, 0.00 IS LESS THAN PERMITTED



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\*\*\*\* ISCLT \*\*\*\*\* ISCLT -- ANNUAL NOX

ALL SOURCES (041)

\*\*\*\*\* PAGE

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\*\* ANNUAL GROUND LEVEL CONCENTRATION ( MICROGRAMS PER CUBIC METER ) FROM ALL SOURCES COMBINED \*\*

- GRID SYSTEM RECEPTORS -  
- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE , METERS )	-1000.000	-900.000	-800.000	-700.000	-600.000	-500.000	-400.000	-300.000	-200.000
	- CONCENTRATION -								
1000.000	6.125322	6.127700	6.094093	6.019985	5.903982	5.750503	5.766286	7.027227	8.411560
900.000	6.356190	6.562686	6.538740	6.464639	6.336689	6.156047	5.930664	6.838409	8.332076
800.000	6.608039	6.840491	7.033495	6.959665	6.801756	6.533855	6.225493	6.464143	8.059184
700.000	6.885277	7.149355	7.366058	7.504187	7.254660	6.901388	6.483676	6.076775	7.490542
600.000	7.194715	7.498895	7.734884	7.816087	7.742961	7.266974	6.676906	6.082804	6.595673
500.000	7.546048	7.900994	8.133423	8.204315	8.057222	7.643398	6.811241	5.924693	5.378306
400.000	8.055733	8.369009	8.642580	8.730305	8.529869	7.936595	6.917276	5.617210	4.515382
300.000	9.270226	9.495520	9.558521	9.481441	9.293653	8.578476	7.194072	5.255514	3.547390
200.000	10.560844	10.957678	11.205563	11.196426	10.786316	9.825712	8.184858	5.543178	1.633395
100.000	11.878965	12.509329	13.024607	13.297129	13.123604	12.206591	10.177889	6.863959	3.344543
0.000	13.175007	14.069468	14.932831	15.609529	<u>15.906578</u>	15.455215	13.776771	10.179537	6.265190
-100.000	11.479237	12.059605	12.524664	12.754679	12.562798	11.683037	9.802814	6.831932	4.048810
-200.000	9.757004	10.048000	10.185202	10.073137	9.595356	8.657013	7.427290	5.912742	3.138496
-300.000	8.083979	8.146931	8.041805	7.836459	7.696771	7.169133	6.144471	4.714012	4.365896
-400.000	6.523219	6.666589	6.814183	6.816475	6.600318	6.095775	5.297487	5.407205	5.670534
-500.000	5.780070	5.952070	6.020259	5.953754	5.715382	5.282607	5.591874	5.971320	6.611378
-600.000	5.209709	5.307322	5.329631	5.225793	4.994627	5.364688	5.777692	6.268412	7.558514
-700.000	4.695052	4.736332	4.715121	4.609434	4.974573	5.372901	5.816212	6.325062	8.071970
-800.000	4.234854	4.235273	4.180302	4.530062	4.907113	5.299863	5.730793	6.542064	8.245063
-900.000	3.826123	3.797574	4.095892	4.421498	4.775195	5.156284	5.559735	6.678347	8.187111
-1000.000	3.464706	3.718670	3.994530	4.292553	4.612313	4.952946	5.426483	6.658602	7.965911

- GRID SYSTEM RECEPTORS -  
- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE , METERS )	-100.000	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000
	- CONCENTRATION -								
1000.000	9.869898	11.351654	9.954981	8.567457	7.239342	6.018775	5.742302	5.614089	5.464535
900.000	9.972689	11.668583	10.092953	8.553875	7.136763	6.168166	6.034616	5.897486	5.755775
800.000	9.866144	11.810623	10.036242	8.363705	6.886261	6.375821	6.270579	6.173037	6.035849
700.000	9.439804	11.630123	9.681034	7.935769	6.610131	6.508605	6.455692	6.400480	6.311404
600.000	8.565241	10.960043	8.907347	7.227982	6.529463	6.538440	6.592488	6.618515	6.517908
500.000	7.140826	9.615231	7.623003	6.270267	6.236110	6.458998	6.697357	6.717663	6.708583
400.000	5.176396	7.472694	5.840555	5.353290	5.737008	6.315817	6.580545	6.805285	6.911712
300.000	2.920495	4.577614	3.767562	4.160435	5.157791	5.825749	6.482625	6.943979	7.170099
200.000	1.252086	1.858342	2.132963	3.036510	4.179140	5.506903	6.533929	7.835990	7.204399
100.000	0.494475	0.328986	0.980206	2.076285	3.765381	5.489461	6.600579	7.160507	7.334886
0.000	2.162560	3.000000	6.761915	2.792976	4.605332	6.317880	7.246998	7.624152	7.644953
-100.000	1.270458	0.960945	0.429746	1.256586	2.570521	4.214346	5.382666	6.860357	6.360042
-200.000	2.493481	4.143908	1.435534	2.429105	3.112972	3.619251	4.031170	4.720282	5.239251
-300.000	4.745513	7.685390	3.847863	3.685576	4.915764	4.951458	4.882779	4.720389	4.483781
-400.000	7.364384	10.736780	6.724648	4.526872	5.552440	6.444570	6.070929	5.616029	5.195459
-500.000	9.897662	12.263588	8.782436	5.948792	6.041991	6.552313	7.088106	6.459358	5.885495
-600.000	9.971332	12.724997	5.761342	7.232058	6.299833	6.561132	6.875513	7.143106	6.468777

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\*\* ANNUAL GROUND LEVEL CONCENTRATION ( MICROGRAMS PER CUBIC METER ) FROM ALL SOURCES COMBINED (CONT.) \*\*

- GRID SYSTEM RECEPTORS -  
- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE , METERS )	-100.000	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000
-700.000	10.237406	12.561590	10.150810	7.966827	6.318871	6.453076	6.639539	6.804550	6.912958
-800.000	10.124470	12.066780	10.116732	8.277456	6.653737	6.250275	6.361072	6.465375	6.500518
-900.000	9.796532	11.413338	9.836887	8.301712	6.892848	5.985910	6.046538	6.089931	6.108262
-1000.000	9.359263	10.721052	9.428007	8.147799	6.925193	5.804323	5.689330	5.724257	5.742361

- GRID SYSTEM RECEPTORS -  
- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE , METERS )	800.000	900.000	1000.000
1000.000	5.351303	5.214439	5.075349
900.000	5.608502	5.455925	5.299848
800.000	5.877198	5.704020	5.534438
700.000	6.143172	5.961765	5.778400
600.000	6.404109	6.229158	6.031364
500.000	6.640710	6.506221	6.294152
400.000	6.897082	6.788972	6.539887
300.000	7.162132	6.893804	6.608261
200.000	7.142980	6.943727	6.671797
100.000	7.251471	7.024717	6.727612
0.000	7.453820	7.152027	6.803570
-100.000	6.403279	6.289964	6.090511
-200.000	5.441939	5.474588	5.400136
-300.000	4.611043	4.736916	4.743624
-400.000	4.785154	4.395904	4.144448
-500.000	5.360918	4.879007	4.419462
-600.000	5.864269	5.293977	4.790988
-700.000	6.231319	5.628532	5.102954
-800.000	6.485319	5.881890	5.350441
-900.000	6.098072	6.059633	5.535496
-1000.000	5.738415	5.711648	5.664222

37

- SOURCE INPUT DATA -

C T SOURCE SOURCE	X	Y	EMISSION	BASE /	
A A NUMBER TYPE	COORDINATE	COORDINATE	HEIGHT	ELEV- /	
R P	(M)	(M)	(M)	ATION /	
D E			(M)	/	

- SOURCE DETAILS DEPENDING ON TYPE -

X 1 STACK 0.00 0.00 6.10 0.00 GAS EXIT TEMP (DEG K)= 589.00, GAS EXIT VEL. (M/SEC)= 43.90,  
 STACK DIAMETER (M)= 0.360, HEIGHT OF ASSO. BLDG. (M)= 0.00, WIDTH OF ASSO. BLDG. (M)= 0.00, WAKE EFFECTS FLAG = 0  
*Swoope #2 Existing Diesel*  
*Emission rate corresponds to*  
*Increase above 70% capacity factor limitation.*  
 - SOURCE STRENGTHS ( GRAMS PER SEC ) -  
 SEASON 1 SEASON 2 SEASON 3 SEASON 4  
 1.15000E+00

WARNING - DISTANCE BETWEEN SOURCE 1 AND POINT X,Y= 0.00, 0.00 IS LESS THAN PERMITTED  
 X 2 STACK 0.00 0.00 6.10 0.00 GAS EXIT TEMP (DEG K)= 644.00, GAS EXIT VEL. (M/SEC)= 42.70,  
 STACK DIAMETER (M)= 0.560, HEIGHT OF ASSO. BLDG. (M)= 0.00, WIDTH OF ASSO. BLDG. (M)= 0.00, WAKE EFFECTS FLAG = 0  
*Swoope #3 & #4 Combined*  
 - SOURCE STRENGTHS ( GRAMS PER SEC ) -  
 SEASON 1 SEASON 2 SEASON 3 SEASON 4  
 1.42400E+01

WARNING - DISTANCE BETWEEN SOURCE 2 AND POINT X,Y= 0.00, 0.00 IS LESS THAN PERMITTED



BEST AVAILABLE COPY

\*\* ANNUAL GROUND LEVEL CONCENTRATION ( MICROGRAMS PER CUBIC METER ) FROM ALL SOURCES COMBINED \*\*

- GRID SYSTEM RECEPTORS -

- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE METERS)	-1000.000	-900.000	-800.000	-700.000	-600.000	-500.000	-400.000	-300.000	-200.000
1000.000	4.520756	4.530603	4.511012	4.458233	4.371409	4.254956	4.263452	5.188981	6.206468
900.000	4.710518	4.858240	4.843405	4.787918	4.686647	4.544641	4.369836	5.021120	6.102407
800.000	4.914883	5.079499	5.210071	5.147761	5.016402	4.796514	4.548201	4.699167	5.817804
700.000	5.136922	5.321885	5.464080	5.538367	5.320856	5.018771	4.668899	4.348303	5.300343
600.000	5.382088	5.593119	5.741446	5.755008	5.635359	5.215117	4.713485	4.232643	4.523201
500.000	5.658475	5.903630	6.037080	6.023872	5.819725	5.394122	4.680183	3.961777	3.533201
400.000	6.051797	6.265864	6.419033	6.399251	6.124184	5.521543	4.598712	3.564828	3.762926
300.000	6.950764	7.094189	7.094568	6.957702	6.661875	5.923663	4.682643	3.135205	1.962312
200.000	7.907308	8.164433	8.276503	8.153919	7.686349	6.776796	5.296220	3.207801	1.309849
100.000	8.886895	9.308157	9.599226	9.646774	9.284388	8.294069	6.462439	3.851166	1.837839
0.000	9.853601	10.469259	11.008928	<u>11.332335</u>	11.268307	10.526871	8.779190	5.721337	3.732776
-100.000	8.584108	8.971802	9.231838	9.260172	8.906273	7.978684	6.299791	3.949928	2.376096
-200.000	7.298388	7.480745	7.520294	7.341415	6.861167	6.030926	4.925282	3.290251	1.714400
-300.000	6.050619	6.076718	5.962884	5.962884	5.757898	5.557244	5.038174	3.009334	2.599359
-400.000	4.887339	4.983474	5.065331	5.019750	4.790734	4.332579	3.663387	3.624520	3.700043
-500.000	4.329359	4.449526	4.481150	4.399299	4.177841	3.807566	3.968241	4.176242	4.569763
-600.000	3.899849	3.967222	3.972616	3.875276	3.678033	3.921675	4.191241	4.519220	5.395178
-700.000	3.511554	3.539032	3.516667	3.428170	3.690674	3.973131	4.287094	4.652943	5.890650
-800.000	3.163233	3.161773	3.117146	3.380041	3.661081	3.950712	4.268748	4.863049	6.110258
-900.000	2.852649	2.830565	3.058518	3.306043	3.573822	3.861777	4.166894	4.994776	6.110539
-1000.000	2.576872	2.772741	2.984722	3.212920	3.457094	3.716992	4.076013	4.995479	5.986277

- GRID SYSTEM RECEPTORS -

- X AXIS (DISTANCE, METERS) -

Y AXIS (DISTANCE METERS)	-100.000	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000
1000.000	7.280466	8.376677	7.351406	6.337106	5.367568	4.477124	4.267008	4.163865	4.058664
900.000	7.297355	8.543688	7.396438	6.285521	5.269374	4.575168	4.472225	4.366213	4.255118
800.000	7.116298	8.526773	7.254468	6.074090	5.046179	4.691741	4.620716	4.554272	4.453094
700.000	6.659750	8.203991	6.842833	5.658136	4.784166	4.728436	4.713701	4.694533	4.642682
600.000	5.816922	7.452812	6.081230	5.018644	4.611780	4.664504	4.754748	4.618909	4.768805
500.000	4.588627	6.172086	4.942447	4.205564	4.257614	4.502133	4.762873	4.831600	4.872447
400.000	3.064259	4.409218	3.522186	3.386473	3.754132	4.292001	4.572902	4.826157	4.979405
300.000	1.528748	2.354199	2.049510	2.423868	3.224925	3.798440	4.397372	4.859688	5.129473
200.000	0.637208	0.984886	1.189432	1.626314	2.418874	3.453972	4.390290	4.885594	5.142127
100.000	0.288929	0.184037	0.610358	1.128109	2.062204	3.402621	4.393205	4.987955	5.252612
0.000	1.303775	0.000000	0.449373	1.675433	2.668347	4.020135	4.913198	5.376213	5.825256
-100.000	0.813881	0.575565	0.254399	0.684745	1.414449	2.620183	3.591733	4.227263	4.861974
-200.000	1.385221	2.350532	0.738085	1.250501	1.774701	2.247648	2.668141	3.318553	3.737797
-300.000	2.628058	4.129972	2.088264	2.113570	3.013945	3.196094	3.288659	3.285767	3.195413
-400.000	4.633048	6.712242	4.171715	3.186665	3.602041	4.341027	4.176923	3.712322	3.733963
-500.000	6.165956	8.306246	5.842155	4.001753	4.109892	4.547907	5.519206	4.441565	4.872900
-600.000	7.162424	9.017750	6.867889	5.074903	4.432734	4.667937	4.950757	5.199542	4.736632



\*\* ANNUAL GROUND LEVEL CONCENTRATION ( MICROGRAMS PER CUBIC METER ) FROM ALL SOURCES COMBINED (CONT.) \*\*

- GRID SYSTEM RECEPTORS -  
 - X AXIS (DISTANCE, METERS) -  
 Y AXIS (DISTANCE , METERS ) - CONCENTRATION -

	-100.000	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000
-700.000	7.445539	9.141445	7.348537	5.749539	4.562780	4.676843	4.841251	4.990833	5.092170
-800.000	7.481155	8.919882	7.450238	6.079086	4.880642	4.587487	4.679839	4.768476	4.800737
-900.000	7.305363	8.512440	7.316545	6.160236	5.104819	4.427017	4.472134	4.505086	4.517878
-1000.000	7.012303	8.032454	7.049086	6.079269	5.154711	4.307981	4.217338	4.239990	4.249018

- GRID SYSTEM RECEPTORS -  
 - X AXIS (DISTANCE, METERS) -  
 Y AXIS (DISTANCE , METERS ) - CONCENTRATION -

	800.000	900.000	1000.000
1000.000	3.949165	3.835467	3.719000
900.000	4.137527	4.013654	3.890831
800.000	4.331511	4.199357	4.067876
700.000	4.522067	4.388280	4.249101
600.000	4.702225	4.580199	4.434093
500.000	4.856625	4.775698	4.623975
400.000	5.022134	4.973322	4.802281
300.000	5.156453	5.050423	4.862032
200.000	5.187934	5.095057	4.919748
100.000	5.284184	5.170049	4.973930
0.000	5.467811	5.288986	5.047168
-100.000	4.672099	4.633645	4.505657
-200.000	3.953654	4.018964	3.983482
-300.000	3.340763	3.466486	3.487743
-400.000	3.476663	3.212633	3.035532
-500.000	3.918939	3.578633	3.242239
-600.000	4.309852	3.894997	3.522620
-700.000	4.594871	4.149644	3.757112
-800.000	4.790774	4.340483	3.940945
-900.000	4.506586	4.471251	4.075399
-1000.000	4.239617	4.211085	4.165322

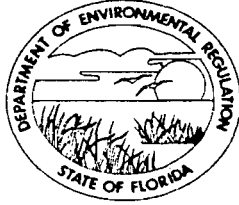
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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER DISTRICT

3319 MAGUIRE BOULEVARD  
SUITE 232  
ORLANDO, FLORIDA 32803



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

ALEX SENKEVICH  
DISTRICT MANAGER

B. W. Wait, III  
Director of Utilities  
City of New Smyrna Beach Utilities Commission  
Post Office Box 519  
New Smyrna Beach, Florida 32069

Dear Mr. Wait:

Volusia County AP  
City of New Smyrna Beach  
Utilities Commission

Enclosed is Permit Number AC64-43484 dated 7-17-81, to construct the subject pollution source, issued pursuant to Section 403.061(14), 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 28-5.201, 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 may 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,

*Alex Senkevich*  
A. Senkevich, P.E.  
District Manager

JVR  
AS:jrd H

Enclosures

cc: Kennard J. Kosky  
Record Center - Tallahassee

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

PART II  
FORMAL PROCEEDINGS

28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should 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, and an explanation of how his/her substantial interests will be affected by the agency determination;
  - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a decision;
  - (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
  - (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;
  - (f) A demand for relief to which the petitioner deems himself entitled; and
  - (g) Other information which the petitioner contends is material.

\*\*\*\*\*

A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201(3)(a), FAC)

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

ST. JOHNS RIVER  
DISTRICT

3319 MAGUIRE BOULEVARD  
SUITE 232  
ORLANDO, FLORIDA 32803



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

ALEX SENKEVICH  
DISTRICT MANAGER

APPLICANT:

B. W. Wait, III  
Director of Utilities  
Post Office Box 519  
New Smyrna Beach, Florida 32069

PERMIT/CERTIFICATION

No.: AC64-43484  
County: Volusia  
Project: City of New Smyrna Beach  
Utilities Commission

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

The permittee can construct a 910-KW - 7.3 MMBTU Diesel Generator (Fairbanks Morse, Model 38 DD8 -1/8) using 5.4 MM BTU/hr. maximum heat input burning Natural Gas as the fuel. No. 2 fuel oil will be used as the pilot fuel.

This generator is located at 2495 North Dixie Freeway in New Smyrna Beach, Florida.

UTM: East 5058  
UTM: North 3214.8

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.

Appl. B. W. Wait, III

Project: City of New Smyrna Beach Utilities Commission

Page 2 of 4 of Permit No.: AC64-43484

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 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 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 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.



Appl. Name: B. W. Wait, III  
Project: City of New Smyrna Beach Utilities Commission  
Page 3 of 4 of Permit No. AC64-43484

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)

#### SPECIFIC CONDITIONS

1. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the St. Johns River District Office, are made a part hereof.

2. Construction of this installation shall be completed by July 14, 1982. Application for Permit to Operate will be submitted by August 14, 1982.

3. This construction permit expires on September 14 1982 following an initial period of operation for appropriate testing to determine compliance with the Rules of the Florida Department of Environmental Regulation Commission.

Appl. Name: B. W. Wait  
Project: City of New Smyrna Beach Utilities Commission  
Page 4 of 4 of Permit No.: AC64-43484

4. This diesel generator shall be tested for visible emissions within thirty (30) days after it is placed in operation. These test results are required prior to our issuance of an operation permit and shall be submitted in duplicate to the Florida Department of Environmental Regulation, 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803.

5. The operation of this installation shall be observed for visible emissions in accordance with Method 9-Visible Determination of the Opacity of Emissions from Stationary Sources (36FR24895; Federal Register, December 23, 1971).

6. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least ten (10) days in advance of the compliance tests so that we can witness them.

7. This plant is required to operate within 10 percent of permitted capacity during the compliance tests. The permitted capacity is 5.7 MM BTU/hr.

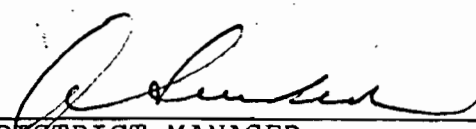
8. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling test is completed.

9. The emission limitation for this generator is set forth in Chapter 17-2.05(1), F.A.C. and must be conducted in accordance with EPA Method #9.

10. The diesel engine is rated at 7.72 MM BTU/hr maximum heat input and must operate with a capacity factor no greater than 70% or a maximum heat input of 5.4 MM BTU/hr.

Issued this 7 day of July,  
1982.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

*cmc*  
*JH*  
  
DISTRICT MANAGER  
A. Senkevich, P.E.

EXPIRATION DATE  
September 14, 1982

**UTILITIES COMMISSION  
CITY OF NEW SMYRNA BEACH, FLORIDA  
NEW SMYRNA BEACH, FL 32089**

29321

63-524  
631



**Southeast Bank  
of Volusia**  
New Smyrna Beach, Florida 32069

June 24 1982

**UTILITIES COMMISSION 40 DOLS 00 CTS**

PAY DOLLARS \$ 40.00

TO THE ORDER OF

FLORIDA DEPARTMENT OF ENVIRONMENTAL  
REGULATION  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Fla. 32301

UTILITIES OPERATING ACCOUNT

*[Signature]* CHAIRMAN  
*[Signature]* AUTH. SIG.

|| [REDACTED] || > [REDACTED] < [REDACTED] ||

DETACH AND RETAIN THIS STATEMENT.

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.  
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

UTILITIES COMMISSION - CITY OF NEW SMYRNA BEACH, FLORIDA - UTILITIES OPERATING ACCOUNT

DATE	INVOICE NUMBER	DESCRIPTION	AMOUNT	DEDUCTIONS		NET AMOUNT
				PARTICULARS	AMOUNT	
6/24/82		For Application Fee - Construction Permit for Swoope #3 and #4				40.00

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. 33617

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Naim Simmons Beach Utilities Commission Date June 28, 1988

Address P.O. Box 519 Naim Simmons Beach FL Dollars \$ 40.00

Applicant Name & Address Same as above

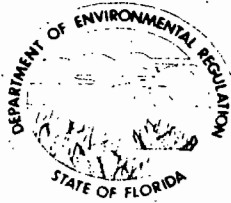
Source of Revenue \_\_\_\_\_

Revenue Code 0101 Application Number AC 64-57578  
0101-57580

By Victoria B Adams

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

July 28, 1982

Mr. P. A. Korelich  
Chief Engineer  
Utilities Commission  
City of New Smyrna Beach  
P. O. Box 519  
New Smyrna Beach, Florida

Dear Mr. Korelich:

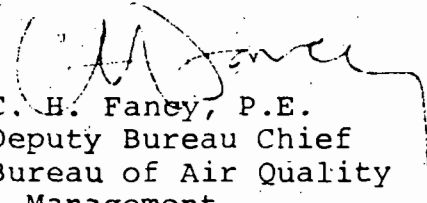
Your commission's application for state permits to construct two additional gas diesel units at your Swoope site has been considered complete by the Bureau of Air Quality Management, DER in Tallahassee.

Based on the content of the application, the proposed construction is subject to federal PSD review. The U.S. Environmental Protection Agency (EPA) has delegated responsibility for the technical and administrative review portion of the federal PSD program as it applies to sources in Florida to the Department's Bureau of Air Quality Management in Tallahassee. EPA has retained the authority to issue federal PSD permits based on preliminary and final PSD determination prepared by the Bureau.

Therefore, you should send the federal PSD application to the Bureau when all the required information is available.

If you have any questions, please feel free to call Mr. Bill Thomas at (904) 488-1344.

Sincerely,

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

CHF/BK/bjm

bcc: Chuck Collins  
M. H. Dybevick

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO.

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

*Bill Thomas*

INITIAL

DATE

2.

INITIAL

DATE

3.

INITIAL

DATE

4.

INITIAL

DATE

REMARKS:

*New Smyrna Beach*

*1. 45 day will be Aug 12*

*2. Mr. Korelich can be reached at (904) 427-1361*

*Telecon w/PA Korelich  
1145 Aug 10*

*He said letter about Fed PSD was mailed within 2 days of receipt of 7/28 letter. Call him if problem funding*

*JK*

INFORMATION

REVIEW & RETURN

REVIEW & FILE

INITIAL & FORWARD

DISPOSITION

REVIEW & RESPOND

PREPARE RESPONSE

FOR MY SIGNATURE

FOR YOUR SIGNATURE

LET'S DISCUSS

SET UP MEETING

INVESTIGATE & REPT

INITIAL & FORWARD

DISTRIBUTE

CONCURRENCE

FOR PROCESSING

INITIAL & RETURN

FROM:

*Bob King*

DATE

*8/10/82*

PHONE

# P16 7682472

## RECEIPT FOR CERTIFIED MAIL

ND INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO			
P. A. Korelich			
STREET AND NO.			
P.O. Box 519			
P.O. STATE AND ZIP CODE			
N. Smyrna Bch, FL32069			
POSTAGE	\$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	c	
	SPECIAL DELIVERY	c	
	RESTRICTED DELIVERY	c	
	OPTIONAL SERVICES	SHOW TO WHOM AND DATE DELIVERED	c
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
	RETURN RECEIPT SERVICE	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$		
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

PS Form 3811, Jun. 1979	<p><b>SENDER:</b> Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.</p>						
	<p>1. The following service is requested (check one.)</p> <p><input checked="" type="checkbox"/> Show to whom and date delivered.....¢</p> <p><input type="checkbox"/> Show to whom, date and address of delivery.....¢</p> <p><input checked="" type="checkbox"/> RESTRICTED DELIVERY</p> <p>    Show to whom and date delivered.....¢</p> <p><input type="checkbox"/> RESTRICTED DELIVERY.</p> <p>    Show to whom, date, and address of delivery.\$</p> <p style="text-align: center;">(CONSULT POSTMASTER FOR FEES)</p>						
	<p>2. ARTICLE ADDRESSED TO:</p> <p>Mr. P. A. Korelich, Chief Engineer-Utilities Commission P.O. Box 519 New Smyrna Beach, FL 32069</p>						
	<p>3. ARTICLE DESCRIPTION:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>REGISTERED NO.</td> <td>CERTIFIED NO.</td> <td>INSURED NO.</td> </tr> <tr> <td></td> <td>7682472</td> <td></td> </tr> </table> <p style="text-align: center;">(Always obtain signature of addressee or agent)</p>	REGISTERED NO.	CERTIFIED NO.	INSURED NO.		7682472	
REGISTERED NO.	CERTIFIED NO.	INSURED NO.					
	7682472						
	<p>I have received the article described above.</p> <p>SIGNATURE <input type="checkbox"/> Addressee <input checked="" type="checkbox"/> Authorized agent</p> <p style="text-align: center;"><i>Thompson</i></p>						
	<p>4. DATE OF DELIVERY</p>						
	<p>5. ADDRESS (Complete only if requested)</p>						
	<p>6. UNABLE TO DELIVER BECAUSE:</p>						

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL



DEPARTMENT OF ENVIRONMENTAL REGULATION

<b>ROUTING AND TRANSMITTAL SLIP</b>		ACTION NO.
		ACTION DUE DATE
1. TO: (NAME, OFFICE, LOCATION)		INITIAL
<del>D.H. Thomas</del> BT		DATE
2.		INITIAL
Clair Faney CF		DATE
3.		INITIAL
		DATE
4.		INITIAL
		DATE
<b>REMARKS:</b> 1. Attached is the Preliminary Determination for City of New Smyrna Beach. 2. It needs to be out today. (55 days will be 8/22)		<b>INFORMATION</b>
		REVIEW & RETURN
		REVIEW & FILE
		INITIAL & FORWARD
		<b>DISPOSITION</b>
		REVIEW & RESPOND
		PREPARE RESPONSE
		FOR MY SIGNATURE
		FOR YOUR SIGNATURE
LET'S DISCUSS		
SET UP MEETING		
INVESTIGATE & REPT		
INITIAL & FORWARD		
DISTRIBUTE		
CONCURRENCE		
FOR PROCESSING		
INITIAL & RETURN		
FROM: Bob King		DATE: 8/20/82
		PHONE: _____



# NEW SMYRNA BEACH NEWS & OBSERVER

Published Three Times Weekly  
New Smyrna Beach, Volusia County, Florida 32069

STATE OF FLORIDA,  
COUNTY OF VOLUSIA:

Before the undersigned authority personally appeared Peter E. Cardiff who on oath says that he is Publisher of the New Smyrna Beach News & Observer, a tri-weekly newspaper published at New Smyrna Beach in Volusia County, Florida; that the attached copy of Advertisement, being a Public Notice..... in the matter of

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

August 27.....19 82.....19.....  
.....19.....19.....  
.....19.....19.....  
.....19.....19.....  
.....19.....19.....

Affiant further says that the said New Smyrna Beach News & Observer is a newspaper published at New Smyrna Beach, in said Volusia County, Florida, and that the said newspaper has heretofore been continuously published in said Volusia County, Florida, and has been entered as second class mail matter at the post office in New Smyrna Beach, in said Volusia County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

Sworn to and subscribed before me this 27th day of

August A.D., 19 82

Pub. Costs \$ 15.08  
Notary Public, State of Florida  
My Commission Expires Dec. 7, 1985  
Bonded Thru Troy Fair Insurance, Inc.

## PROOF OF PUBLICATION

### PUBLIC NOTICE

A modification to an existing air pollution source is being proposed by the Utilities Commission, City of New Smyrna Beach, Florida. The proposed modification is the construction of two gas diesel units, Swoope No. 3 and No. 4, with generating capacities of 2050 KW and 2275 KW, respectively. The modification will increase emissions of air pollutants, in tons per year, by the following amounts.

PM: 2  
SO2: 4  
NOx: 325  
CO: 87  
VOC: 42

The proposed modification has been reviewed by the Florida Department of Environmental Regulation under Chapter 403, Florida Statutes, and Federal regulation 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The Department has made a preliminary determination that the construction can be approved provided certain conditions are met. A summary of the basis for the determination and the application for State and Federal permits submitted by the Utilities Commission, City of New Smyrna Beach, Florida are available for public review at the following offices:

Brannon Memorial Library  
105 Riverside Drive  
New Smyrna Beach, Florida 32069

Bureau of Air Quality Management  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

St. Johns River District  
3319 Maguire Drive  
Suite 232  
Orlando, Florida 32803

No allowable PSD increments for PM or SO2 are consumed by the proposed modification.

Any person may submit written comments regarding the proposed modification. All comments, postmarked no later than 30 days from the date of this notice, will be considered in making a final determination regarding approval for construction of this source. Those comments will be made available for public review on request. Furthermore, a public hearing can be requested by any person. Such request should be submitted within 15 days of the date of this notice. Letters should be addressed to:

Mr. C. H. Fancy, P.E.  
Dept. of Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32301

P16 7682429

RECEIPT FOR CERTIFIED MAIL

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

SENT TO		P.A. Korelich, P.E.	
STREET AND NO.		P. O. Box 519	
P.O., STATE AND ZIP CODE		New Smyrna Beach, FL	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	c
		SPECIAL DELIVERY	c
		RESTRICTED DELIVERY	c
	RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	c
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			
10/6/82			

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1976 RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL	SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.		
	1. The following service is requested (check one.)		
	<input checked="" type="checkbox"/> Show to whom and date delivered..... c		
	<input type="checkbox"/> Show to whom, date and address of delivery..... c		
	<input type="checkbox"/> RESTRICTED DELIVERY Show to whom and date delivered..... c		
	<input type="checkbox"/> RESTRICTED DELIVERY. Show to whom, date, and address of delivery. \$ ____		
(CONSULT POSTMASTER FOR FEES)			
2. ARTICLE ADDRESSED TO:			
Mr. P. A. Korelich, P.E. P. O. Box 519 New Smyrna Beach, FL 32069			
3. ARTICLE DESCRIPTION:			
REGISTERED NO.	CERTIFIED NO.	INSURED NO.	
	7682429		
(Always obtain signature of addressee or agent)			
I have received the article described above.			
SIGNATURE <input type="checkbox"/> Addressee <input type="checkbox"/> Authorized agent			
<i>P.A. Korelich</i>			
4. DATE OF DELIVERY			
10/6/82			
5. ADDRESS (Complete only if requested)			
NEW SMYRNA BEACH, FL 32069			
6. UNABLE TO DELIVER BECAUSE:			
CLERK'S INITIALS			

☆GPO : 1979-300-459



# Interoffice Memorandum

For Routing To Other Than The Addressee.

To: \_\_\_\_\_ Location: \_\_\_\_\_  
To: \_\_\_\_\_ Location: \_\_\_\_\_  
To: \_\_\_\_\_ Location: \_\_\_\_\_  
From: \_\_\_\_\_ Date: \_\_\_\_\_

CENTRAL DISTRICT

OCD-AP-89-0768

TO: Clair Fancy, Bureau Chief  
THROUGH: Charles Collins, DAPA *noted a m c*  
FROM: Alan D. Zahm, Supervisor, Permitting Section *A D Z*  
DATE: December 18, 1989  
SUBJECT: Modification of Operating Permits of a Major Facility  
New Smyrna Beach Swoope Generation Station

Our office has been requested to modify the compliance test methods for operating permits A064-152684 and A064-130061 of the above referenced source. Based upon my understanding of the EPA requirement to have the construction permit modified for enforceability, I requested Mr. Ed Berrier of New Smyrna Beach Utilities Commission to ask for the change from the Tallahassee Air Section.

The proposed changes are from Method 7 to Method 7E and Method 3 to Method 3A. Our interpretation of the rule change for Fossil Fuel Steam Generators 17-2.600(5)(a) is that the natural gas fired plant is covered by this section and the Methods 7E and 3A can be utilized. Therefore, the office intends to grant the request to change the operating permit after the construction permit is changed.

This memo is to inform you of Mr. Berrier's intention and also to give you the opportunity to inform us of any misunderstandings on this procedure.

AZ:j

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	Initial
<i>Chairman, Bureau Chief</i>	Date
2. <i>Air Permitting Section</i>	Initial
	Date
3. <i>T T</i>	Initial
	Date
4. <i>Tall</i>	Initial
	Date

REMARKS:

INFORMATION

Review & Return

Review & File

Initial & Forward

RECEIVED

DEC 20 1989

DER - BAQM

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

*C. Collins  
Air Program Adm  
Central District*

DATE

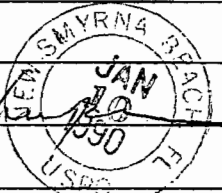
PHONE

*12-18-89*

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

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

3. Article Addressed to: Mr. Ed L. Berrier, Chief Utilities Commission City of New Smyrna Beach P. O. Box 519 120 Sams Avenue New Smyrna Beach, FL 32070-0519	4. Article Number P 938 762 798
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X Robert A. [Signature]	
7. Date of Delivery	



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

P 938 762 798

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

Sent to Mr. Ed L. Berrier, New Smyrna	
Street and No. Beach Utilities P.O. Box 519	
P.O. State and ZIP Code New Smyrna Beach, FL 32070-0519	
Postage	\$
Certified Fee	\$
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 1-5-90 Permit: AC 64-57578, -80	

PS Form 3800, June 1985

Check Sheet

Company Name: New Symrna Beach  
Permit Number: AC 04-057578, -575.80, -43484  
PSD Number: PSD-FL-089  
Permit Engineer: \_\_\_\_\_

**Application:**

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

**Cross References:**

- See PSD files
- AC 04-43484
- 

**Intent:**

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

**Final**

**Determination:**

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

**Post Permit Correspondence:**

- Extensions/Amendments/Modifications
- Other