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6 Nov. 1987
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1200 SEVENTEENTH STREET, N.W.
WASHINGTON, D.C. 20036-3006
(202) 857-9800

November 6, 1987

WRITER'S DIRECT DIAL

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Mr. Clair Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
2600 Blairstone Road
Tallahassee, Florida 32301

DER
NOV 10 1987
BAQM

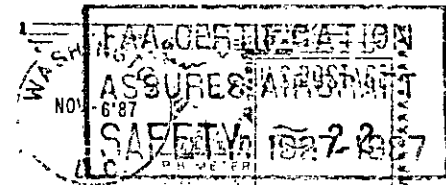
Dear Mr. Fancy:

This is to inform you that Pinellas County, Florida and the U.S. Environmental Protection Agency ("EPA") have agreed to modifications of the federally issued permit for the prevention of significant deterioration ("PSD") emission limits for the Pinellas County Resource Recovery Facility Unit # 3.

Certain limits in the permit modifications are consistent with the PSD permit issued by the State of Florida. For example, the emissions limit for particulate matter is 0.030 gr/dscf (corrected to 12% CO₂). On the other hand, EPA established limits for fluorides and beryllium, neither of which Florida sought to regulate under its permit. Although the County would have preferred to continue operating under the Florida permit, we are pleased to have settled the case without additional litigation.

We want to thank you for your cooperation during our review of pertinent records in Tallahassee in August and especially for the assistance that Bruce Mitchell and Julia Cobb Costas provided us. This case might not have settled without their efforts in obtaining for our review the documents and correspondence related to this case. Bruce, especially, spent many hours and stayed well past the end to his regular work day to provide information for us.

BISHOP, COOK, PURCELL & REYNOLDS
1200 SEVENTEENTH STREET, N.W.
WASHINGTON, D.C. 20036-3006



Mr. Clair Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
2600 Blairstone Road
Tallahassee, FL 32301



U.S. AIR MAIL

NOV 16 1987

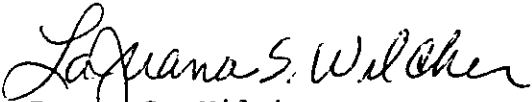
Mr. Clair Fancy, P.E.

October 30, 1987

Page 2


Based upon my professional experiences in two federal agencies, including EPA, I believe that Mr. Mitchell and Ms. Costas exemplify the level of competence and cooperative spirit that all public servants should strive to achieve. We appreciate having had the assistance of such capable staff, and hope to have the opportunity to work with your office again.

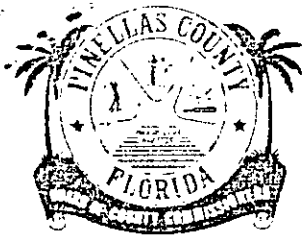
Very truly yours,


LaJuana S. Wilcher

LSW:mff

cc: Bruce Mitchell
Julia Cobb Costas

Copied. CHF/BT - 11/13/87 



PM
19 Aug '87
Charlton, FL

file copy

BOARD OF COUNTY COMMISSIONERS

DER

AUG 24 1987

BAQM

DEPARTMENT OF SOLID WASTE MANAGEMENT
2800 110TH AVENUE NORTH
ST. PETERSBURG, FLORIDA 33702
PHONE (813) 825-1565



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P.O. BOX 21623
ST. PETERSBURG, FLORIDA 33742-1623

August 14, 1987

Hamilton S. Oven, Jr., P.E.
State of Florida
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

Re: Pinellas North County Refuse-to-Energy Facility
Background Monitoring

Dear Mr. Oven:

Pinellas County is now in the initial planning stages for a new municipal refuse fueled power plant to be constructed at the location shown in Figure 1.

It is our understanding that, pursuant to Chapter 17-2, F.A.C., at least one year of background data for ambient air quality must be obtained prior to commencement of construction. To meet this requirement, it is proposed that the existing NAMS monitoring site operated by the County's Department of Environmental Management at Brooker Creek, site I.D. No. 10-4380-002G03, be employed as the primary background monitor (See Figure 1). Currently, continuous monitoring of wind speed/direction, ozone and sulfur dioxide occurs at this site. If the Department concurs with the use of this monitoring site, the County will install additional equipment at that location to collect data on nitrogen oxides, carbon monoxide and total particulates (PM and lead).

Additional data, to supplement that obtained at Brooker Creek, is currently collected by Florida Power Corporation at the Anclote and Higgins Power Plants (See Figure 1).

North County Refuse-to-Energy Facility
Background Monitoring
Page Two
August 14, 1987

If you require any additional information or if you feel a meeting with the Department would be beneficial, please do not hesitate to call.

Sincerely,



Robert Van Deman, P.E., Director
Solid Waste Management

RVD:rvt
att.
0991V

cc: Clair Fancy, BAQM ✓

Copies: CHF/BT

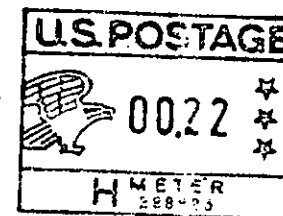
Barry Andrews
Pradeep Raval

} 8/25/87 

**PINELLAS COUNTY
BOARD OF
COUNTY
COMMISSIONERS**

DEPARTMENT OF SOLID WASTE MANAGEMENT
2800 110TH AVENUE NORTH
ST. PETERSBURG, FLORIDA 33702

P.O. BOX 21623
ST. PETERSBURG, FLORIDA 33742-1623



Mr. Clair Fancy, Deputy Chief
Bureau of Air Quality Mgmt.
State of Florida
Dept. of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301-8241



MEMORANDUM

TO: Eric Peterson/Syed Arif *ME*
 FROM: Donald F. Elias/Sunil P. Hangal
 DATE: September 6, 1995

RECEIVED
 SEP 8 1995

Bureau of
 Air Regulation

SUBJECT: Auxiliary Burners for the Pinellas County Resource Recovery Facility

This memo describes the revised gas usage and operating hours estimates for the auxiliary gas-fired burners for the proposed modification to the Pinellas County Resource Recovery Facility. Each municipal waste combustor will be equipped with a set of auxiliary burners with an overall heat input rating of 108.3 MMBTU/hr. These burners will be utilized mostly for start-up and shut-down. They may also be used occasionally for firing during periods of low BTU waste. The facility does not anticipate any prolonged period of gas firing for low BTU waste periods. The facility reviewed the operating records for the last three years to determine the actual operating time for start-up and shutdown.

The annual gas usage is based on the firing of the burners at each burner's maximum rating for eight hours during each start-up/shutdown episode. The number of annual start-up/shutdown episodes anticipated is 47 based on actual operating records. The annual gas usage for each combustor for start-up/shutdown episodes is as follows:

$$\left(\frac{108.3 \text{ MMBTU}}{\text{hr}} \right) \left(\frac{1}{1000 \text{ BTU/cu ft}} \right) \left(\frac{8 \text{ hrs}}{\text{start-up}} \right) \left(\frac{47 \text{ start-ups}}{\text{yr}} \right) = 40.72 \times \frac{10^6 \text{ cu ft}}{\text{yr}}$$

An additional 15% of the gas used in start-up/shutdown is estimated for gas usage during low BTU waste periods. Annual gas usage for each combustor is:

$$46.8289 \times \frac{10^6 \text{ cu ft}}{\text{yr}}$$

The annual operating time at the maximum rating is 432 hours per year. The hourly emission rates from the gas burners are not changed from the previous estimates. However, the operation of the gas burners will not increase the overall emissions from the combustors. The emissions from the gas burners are insignificant compared to the emissions from burning municipal solid waste. The revised text and application forms in the air permit application incorporating the above changes are attached.

If you have any questions, please contact us at (908) 968-9600.

cc: P. Stasis/J. Booty/D. Dee/Proj. File - PCRRF



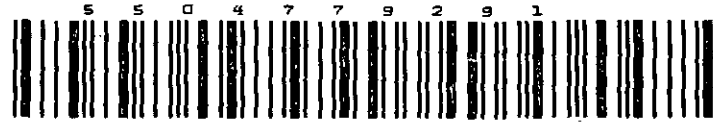
RECIPIENT'S COPY

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
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5504779291

5504779291



Date: 09-06-95

From (Your Name) Please Print: Sunil P. Hangal
 To (Recipient's Name) Please Print: Mr. Syed Arif
 Company: RTP ENVIRONMENTAL ASSOCIATES
 Company: Florida department of Environmental Protection
 Street Address: 239 US HIGHWAY 22 EAST 2ND FL
 Street Address: 2600 Blair Stone Rd.
 City: GREEN BROOK NJ
 City: Tallahassee FL
 State: NJ
 State: FL
 ZIP Required: 08010
 ZIP Required: 32309

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)
 PCRRF
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PAYMENT 1 Bill Sender 2 Bill Recipient's FedEx Acct. No. 3 Bill 3rd Party FedEx Acct. No. 4 Bill Credit Card
 5 Cash/Check

| 4 SERVICES (Check only one box) | | 5 DELIVERY AND SPECIAL HANDLING (Check services required) | | 6 PACKAGES | | WEIGHT in Pounds Only | | YOUR DECLARED VALUE (See right) | | Emp. No. | | Date | | Federal Express Use | |
|----------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|-------|-----------------------|--|---------------------------------|--|-----------------------------------------------------------------------------------------------------------------|--|------|--|-------------------------------------------------------------|--|
| 11 <input type="checkbox"/> OTHER PACKAGING | 51 <input type="checkbox"/> OTHER PACKAGING | 1 <input type="checkbox"/> HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H) | 2 <input checked="" type="checkbox"/> DELIVER WEEKDAY | | | | | | | <input type="checkbox"/> Cash Received | | | | Base Charges | |
| 16 <input type="checkbox"/> FEDEX LETTER* | 56 <input checked="" type="checkbox"/> FEDEX LETTER* | Saturday Service | | | | | | | | <input type="checkbox"/> Return Shipment | | | | Declared Value Charge | |
| 12 <input type="checkbox"/> FEDEX PAK* | 52 <input type="checkbox"/> FEDEX PAK* | 31 <input type="checkbox"/> HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) | 3 <input type="checkbox"/> DELIVER SATURDAY (Extra charge) (Not available to all locations) | | | | | | | <input type="checkbox"/> Third Party <input type="checkbox"/> Chg. To Del <input type="checkbox"/> Chg. To Hold | | | | Other 1 | |
| 13 <input type="checkbox"/> FEDEX BOX | 53 <input type="checkbox"/> FEDEX BOX | Special Handling | | Total | Total | Total | | | | Street Address | | | | Other 2 | |
| 14 <input type="checkbox"/> FEDEX TUBE | 54 <input type="checkbox"/> FEDEX TUBE | 4 <input type="checkbox"/> DANGEROUS GOODS (Extra charge) | 6 <input type="checkbox"/> DRY ICE (Dangerous Goods Shipper's Declaration not required) | | | | | | | City | | | | Total Charges | |
| 38 <input type="checkbox"/> ECONOMY* | 46 <input type="checkbox"/> GOVT LETTER | DIM SHIPMENT (Chargeable Weight) | | | | | | | | State | | | | | |
| 39 <input type="checkbox"/> ECONOMY** | 41 <input type="checkbox"/> GOVT PACKAGE | L x W x H | | | | | | | | Zip | | | | | |
| 70 <input type="checkbox"/> OVERNIGHT FREIGHT** (Continued reservation required) | 80 <input type="checkbox"/> TWO-DAY FREIGHT** | DESCRIPTION | | | | | | | | Received By: X | | | | | |
| *Declared Value Limit \$500 **Call for delivery schedule | | 12 <input type="checkbox"/> HOLIDAY DELIVERY (if offered) (Extra charge) | | | | | | | | Date/Time Received | | | | REVISION DATE 4/94 PART #145412 WCSL 0495 FORMAT #160 | |
| | | | | | | | | | | FedEx Employee Number | | | | 160 | |
| | | | | | | | | | | Release Signature: | | | | 1993-94 FEDEX PRINTED IN U.S.A. | |

TABLE 4-1
PROJECTED POLLUTANT EMISSION RATES FROM THE PROPOSED PCRRF PROJECT

| POLLUTANT | AVERAGING TIME | FLUE GAS CONCENTRATION ^a | PROJECTED EMISSION RATES ^b | | | | LBS/MMBTU ^c | TOTAL FACILITY |
|------------------|------------------|-------------------------------------|---------------------------------------|----------------------|----------------------|-----------------------|------------------------|-----------------------|
| | | | PER UNIT | | TOTAL THREE UNITS | | | |
| | | | LBS/HR | TPY | LBS/HR | TPY | | |
| PM | --- ^d | 0.012 gr/dscf | 14.38 | 62.98 | 43.14 | 188.95 | 0.032 | 205.25 ^e |
| PM ₁₀ | --- | 0.012 gr/dscf | 14.38 | 62.98 | 43.14 | 188.95 | 0.032 | 205.25 ^e |
| SO ₂ | 24-hour geom. | 122 ppmdv ^f | 170.00 | 744.60 | 510.00 | 2233.80 | 0.372 | 2233.80 |
| HCl | --- | 100 ppmdv ^g | 79.38 | 347.68 | 238.14 | 1043.05 | 0.174 | 1043.05 |
| CO | 4-hour | 100 ppmdv | 60.97 | 267.04 | 182.91 | 801.2 | 0.133 | 801.2 |
| NO _x | 24-hour | 367 ppmdv | 254.00 | 1112.5 | 762.0 | 3337.5 | 0.556 | 3337.5 |
| Cd | --- | 40 µg/dscm | 0.0209 | 0.0915 | 0.0627 | 0.275 | 4.6 x 10 ⁻⁵ | 0.275 |
| Pb | --- | 500 µg/dscm | 0.262 | 1.148 | 0.786 | 3.443 | 5.7 x 10 ⁻⁴ | 3.443 |
| Hg | --- | 100 µg/dscm ^h | 0.052 | 0.228 | 0.156 | 0.683 | 1.2 x 10 ⁻⁴ | 0.683 |
| Dioxin/Furans | --- | 30 ng/dscm | 1.6x10 ⁻⁵ | 7.0x10 ⁻⁵ | 4.8x10 ⁻⁴ | 2.10x10 ⁻⁴ | 3.49x10 ⁻⁸ | 2.10x10 ⁻⁴ |

NOTES:

^aat 7% O₂.

^bbased on the highest lb/hr emission rates given by 110% load with 5000 BTU/lb MSW.

^cbased on the highest lb/MMBTU emission rates given by 80% load with 5000 BTU/lb MSW.

^dindicates compliance based on annual stack tests.

^eIncludes emissions from minor sources.

^fat 75% control efficiency - not to exceed cap.

^gat 95% control efficiency - not to exceed cap.

^hat 85% control efficiency - not to exceed cap.

Revised 09/01/95

unloading the delivery trucks. The estimated peak one-hour particulate emission rate during unloading is 0.0086 lb/hr. Based on a worst-case assumption that emissions of 0.0086 lb/hr occur from the silo 24 hours/day and seven days/week, annual particulate matter emissions from this source will not exceed 0.038 tons of particulate matter per year. Emissions of this quantity are not considered excessive for this type of operation. The expected impacts are minimal from these emissions.

4.3.5 Metals Recovery System

Combined fly ash and bottom ash from the facility will be conditioned and processed to extract recyclable metals in a new totally enclosed structure to be located north of the existing facility. This building structure will be ventilated and equipped with rollup steel doors. The metals recovery process will include a cyclone/wet scrubber and three storage silos.

The particulate matter emissions from the shredding operation, consisting of shredder/crushers and trommels, are removed by a cyclone/wet scrubber system. Air containing fugitive emissions is collected at various pick-up points by means of ductwork and exhausted through the cyclone/wet scrubber system. Waste material removed by the scrubbing action is sent to a settling tank and eventually returned to the ash transfer conveyor for load out. The cyclone/wet scrubber stack is approximately 54 feet above the ground. The average particulate emission concentration is 0.0102 gr/dscf at air flow rate of 40,000 CFM. The estimated particulate matter emission rate is 3.5 lbs/hr. Based on the worst-case operating time of 24 hrs/day and 7 days/week, annual particulate matter emissions will not exceed 15.33 tpy. The expected impacts are minimal from these emissions.

The PCRRF will use storage silos located inside the metals recovery system building for the products of the process including two silos for the processed ash aggregate and one silo for the residues extracted from the process. Each of these silos will be equipped with a bin vent and baghouse for control of particulate matter emissions. The bin vent and fabric filter baghouse will be designed for an outlet grain loading of approximately 0.005 gr/dscf and an air flow rate of approximately 1100 scfm.

4.3.6 Auxiliary Burner

Each PCRRF combustor will be equipped with a natural gas fired low NO_x burner with a heat input rating of 108.3 MMBTU/hr. These burners are necessary for firing the combustor during start-ups and shutdowns and to maintain required furnace temperatures when sustained low-BTU wastes are encountered. The anticipated time for boiler warm-up is expected to be eight hours during each normal changing cycle. Approximately 47 start-up/shutdown episodes are anticipated per year based on actual operating records.

Revised 09/01/95

The estimated short-term natural gas usage rate is 0.1083 MM cu ft/hr for each combustor start-up. The estimated annual gas usage rate is 46.8289 MM cu.ft. for each combustor. The estimated hourly and annual emission rates from the use of the auxiliary burners are shown in Table 4-2.

Revised 09/01/95

TABLE 4-2
ESTIMATED EMISSION RATES FROM AUXILIARY BURNERS
AT THE PROPOSED PCRRF PROJECT

| POLLUTANT | EMISSIONS RATES ^a FOR EACH UNIT | |
|-------------------------------------|--------------------------------------------|------------------|
| | lbs/hr ^b | tpy ^c |
| Particulate Matter/PM ₁₀ | 0.542 | 0.12 |
| SO _x | 0.065 | 0.014 |
| CO | 4.33 | 0.94 |
| NO _x | 8.77 ^d | 1.90 |
| NMHC | 0.184 | 0.04 |

^aBased on AP-42 Emission Factors.

^bBased on natural gas usage rate of 0.1083 MM cu. ft./hr.

^cBased on natural gas usage rate of 46.8289 MM cu. ft./yr. (includes gas usage for start-up and firing during low BTU waste conditions).

^dLow NO_x burner.

Revised 09/01/95

Emissions Unit Operating Capacity

| |
|---------------------------------------------------------------------------------------|
| 1. Maximum Heat Input Rate: 108.3 mmbtu/hr |
| 2. Maximum Incineration Rate: Not Applicable lb/hr tons/day |
| 3. Maximum Process or Throughput Rate: Natural Gas Usage = 46.8289 MM cu ft/yr |
| 4. Maximum Production Rate: Not Applicable |
| 5. Operating Capacity Comment: |

Emissions Unit Operating Schedule

| | |
|---------------------------------------|-----------------------|
| Requested Maximum Operating Schedule: | |
| 8* hours/day | * days/week |
| * weeks/year | 432 hours/year |

*

$$\begin{aligned}
 &\frac{8 \text{ hrs}}{\text{startup/shutdown episode}} \times \frac{47 \text{ episodes}}{\text{year}} = \frac{376 \text{ hrs}}{\text{year}} \\
 &+ \frac{56 \text{ hrs}}{\text{year}} \text{ for low BTU waste} = \frac{432 \text{ hrs}}{\text{year}}
 \end{aligned}$$

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 1

| | |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): Not Available | |
| 2. Source Classification Code (SCC): Not Available | |
| 3. SCC Units: MMcu ft of gas burned | |
| 4. Maximum Hourly Rate: 0.1083 | 5. Maximum Annual Rate: 46.8289 |
| 6. Estimated Annual Activity Factor: Not Applicable | |
| 7. Maximum Percent Sulfur: Negligible | 8. Maximum Percent Ash: Negligible |
| 9. Million Btu per SCC Unit: 1000 | |
| 10. Segment Comment: | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 6

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
| 1. Pollutant Emitted: PM | | |
| 2. Total Percent Efficiency of Control: Not Applicable % | | |
| 3. Primary Control Device Code: Not Applicable | | |
| 4. Secondary Control Device Code: Not Applicable | | |
| 5. Potential Emissions: | 0.542 lb/hour | 0.12 tons/year |
| 6. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: 5 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: $\frac{5 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.542 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 1. Pollutant Emitted: | PM ₁₀ | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.542 lb/hour | 0.12 tons/year | |
| 6. Synthetically Limited? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 5 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: | $\frac{5 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.542 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 6

| | | | |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|
| 1. Pollutant Emitted: | CO | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 4.33 lb/hour | 0.94 tons/year | |
| 6. Synthetically Limited? | [] Yes [X] No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | [] 1 [] 2 [] 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 40 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: | [] 1 | [] 2 | [X] 3 [] 4 [] 5 |
| 10. Calculation of Emissions: | $\frac{40 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{4.33 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 4 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|
| 1. Pollutant Emitted: | SO ₂ | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.065 lb/hour | 0.014 tons/year | |
| 6. Synthetically Limited? | [] Yes [X] No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | [] 1 | [] 2 | [] 3 _____ to _____ tons/year |
| 8. Emission Factor: | 0.6 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: | [] 1 | [] 2 | [X] 3 [] 4 [] 5 |
| 10. Calculation of Emissions: | $\frac{0.6 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.065 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 5 of 6

| | | | |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|
| 1. Pollutant Emitted: | NO _x | | |
| 2. Total Percent Efficiency of Control: | 40 % | | |
| 3. Primary Control Device Code: | 025 | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 8.77 lb/hour | 1.9 tons/year | |
| 6. Synthetically Limited? | [] Yes [X] No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | [] 1 [] 2 [] 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 81 lb/MM cu ft Reference: AP-42 with 40% control | | |
| 9. Emissions Method Code: | [] 1 | [] 2 | [X] 3 [] 4 [] 5 |
| 10. Calculation of Emissions: | $\frac{81 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{8.77 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 6 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 1. Pollutant Emitted: | VOC | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.184 lb/hour | 0.04 tons/year | |
| 6. Synthetically Limited? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 1.7 lb/MM cu ft | | |
| | Reference: AP-42 | | |
| 9. Emissions Method Code: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: | $\frac{1.7 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.184 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

Emissions Unit Operating Capacity

| | | |
|---------------------------------------------------------------------------------------|----------|----------|
| 1. Maximum Heat Input Rate: 108.3 | mmbtu/hr | |
| 2. Maximum Incineration Rate: Not Applicable | lb/hr | tons/day |
| 3. Maximum Process or Throughput Rate: Natural Gas Usage = 46.8289 MM cu ft/yr | | |
| 4. Maximum Production Rate: Not Applicable | | |
| 5. Operating Capacity Comment: | | |

Emissions Unit Operating Schedule

| | | |
|---------------------------------------|---------------------|------------------------|
| Requested Maximum Operating Schedule: | | |
| | 8* hours/day | * days/week |
| | * weeks/year | 432* hours/year |

*

$$\frac{8 \text{ hrs}}{\text{start-up/shutdown episode}} \times \frac{47 \text{ episodes}}{\text{year}} = \frac{376 \text{ hrs}}{\text{year}}$$

$$+ \frac{56 \text{ hrs}}{\text{year}} \text{ for low BTU waste} = \frac{432 \text{ hrs}}{\text{year}}$$

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 1

| | |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): Not Available | |
| 2. Source Classification Code (SCC): Not Available | |
| 3. SCC Units: MMcu ft of gas burned | |
| 4. Maximum Hourly Rate: 0.1083 | 5. Maximum Annual Rate: 46.8289 |
| 6. Estimated Annual Activity Factor: Not Applicable | |
| 7. Maximum Percent Sulfur: Negligible | 8. Maximum Percent Ash: Negligible |
| 9. Million Btu per SCC Unit: 1000 | |
| 10. Segment Comment: | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 6

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
| 1. Pollutant Emitted: PM | | |
| 2. Total Percent Efficiency of Control: Not Applicable % | | |
| 3. Primary Control Device Code: Not Applicable | | |
| 4. Secondary Control Device Code: Not Applicable | | |
| 5. Potential Emissions: | 0.542 lb/hour | 0.12 tons/year |
| 6. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: 5 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: $\frac{5 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.542 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 6

| | | |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1. Pollutant Emitted: | PM ₁₀ | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | |
| 3. Primary Control Device Code: | Not Applicable | |
| 4. Secondary Control Device Code: | Not Applicable | |
| 5. Potential Emissions: | 0.542 lb/hour | 0.12 tons/year |
| 6. Synthetically Limited? | [] Yes [X] No | |
| 7. Range of Estimated Fugitive/Other Emissions: | [] 1 [] 2 [] 3 _____ to _____ tons/year | |
| 8. Emission Factor: | 5 lb/MM cu ft Reference: AP-42 | |
| 9. Emissions Method Code: | [] 1 [] 2 [X] 3 [] 4 [] 5 | |
| 10. Calculation of Emissions: | $\frac{5 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.542 \text{ lbs}}{\text{hr}}$ | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 6

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|
| 1. Pollutant Emitted: CO | | |
| 2. Total Percent Efficiency of Control: Not Applicable % | | |
| 3. Primary Control Device Code: Not Applicable | | |
| 4. Secondary Control Device Code: Not Applicable | | |
| 5. Potential Emissions: | 4.33 lb/hour | 0.94 tons/year |
| 6. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: 40 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: $\frac{40 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{4.33 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 4 of 6

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|
| 1. Pollutant Emitted: SO₂ | | |
| 2. Total Percent Efficiency of Control: Not Applicable % | | |
| 3. Primary Control Device Code: Not Applicable | | |
| 4. Secondary Control Device Code: Not Applicable | | |
| 5. Potential Emissions: | 0.065 lb/hour | 0.014 tons/year |
| 6. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: 0.6 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: $\frac{0.6 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.065 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 5 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 1. Pollutant Emitted: | NO _x | | |
| 2. Total Percent Efficiency of Control: | 40 % | | |
| 3. Primary Control Device Code: | 025 | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 8.77 lb/hour | 1.90 tons/year | |
| 6. Synthetically Limited? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 81 lb/MM cu ft Reference: AP-42 with 40% control | | |
| 9. Emissions Method Code: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: | $\frac{81 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{8.77 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 6 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|
| 1. Pollutant Emitted: | VOC | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.184 lb/hour | 0.04 tons/year | |
| 6. Synthetically Limited? | [] Yes [X] No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | [] 1 | [] 2 | [] 3 _____ to _____ tons/year |
| 8. Emission Factor: | 1.7 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: | [] 1 | [] 2 | [X] 3 [] 4 [] 5 |
| 10. Calculation of Emissions: | $\frac{1.7 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.184 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

Emissions Unit Operating Capacity

| |
|---------------------------------------------------------------------------------------|
| 1. Maximum Heat Input Rate: 108.3 mmbtu/hr |
| 2. Maximum Incineration Rate: Not Applicable lb/hr tons/day |
| 3. Maximum Process or Throughput Rate: Natural Gas Usage = 46.8289 MM cu ft/yr |
| 4. Maximum Production Rate: Not Applicable |
| 5. Operating Capacity Comment: |

Emissions Unit Operating Schedule

| | |
|---------------------------------------|----------------|
| Requested Maximum Operating Schedule: | |
| 8* hours/day | * days/week |
| * weeks/year | 432 hours/year |

*
$$\frac{8 \text{ hrs}}{\text{start-up/shutdown episode}} \times 47 \text{ episodes/year} = \frac{376 \text{ hrs}}{\text{year}}$$

$$+ \frac{56 \text{ hrs}}{\text{year}} \text{ for low BTU waste} = \frac{432 \text{ hrs}}{\text{year}}$$

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 1

| | |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): Not Available | |
| 2. Source Classification Code (SCC): Not Available | |
| 3. SCC Units: MMcu ft of gas burned | |
| 4. Maximum Hourly Rate: 0.1083 | 5. Maximum Annual Rate: 46.8289 |
| 6. Estimated Annual Activity Factor: Not Applicable | |
| 7. Maximum Percent Sulfur: Negligible | 8. Maximum Percent Ash: Negligible |
| 9. Million Btu per SCC Unit: 1000 | |
| 10. Segment Comment: | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 6

| | | | |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|
| 1. Pollutant Emitted: | PM | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.542 lb/hour | 0.12 tons/year | |
| 6. Synthetically Limited? | [] Yes [X] No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | [] 1 | [] 2 | [] 3 _____ to _____ tons/year |
| 8. Emission Factor: | 5 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: | [] 1 | [] 2 | [X] 3 [] 4 [] 5 |
| 10. Calculation of Emissions: | $\frac{5 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.542 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 1. Pollutant Emitted: | PM ₁₀ | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.542 lb/hour | 0.12 tons/year | |
| 6. Synthetically Limited? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 5 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: | $\frac{5 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.542 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 6

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|
| 1. Pollutant Emitted: CO | | |
| 2. Total Percent Efficiency of Control: Not Applicable % | | |
| 3. Primary Control Device Code: Not Applicable | | |
| 4. Secondary Control Device Code: Not Applicable | | |
| 5. Potential Emissions: | 4.33 lb/hour | 0.94 tons/year |
| 6. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: 40 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: $\frac{40 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{4.33 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 4 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| 1. Pollutant Emitted: | SO ₂ | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.065 lb/hour | 0.014 tons/year | |
| 6. Synthetically Limited? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 0.6 lb/MM cu ft | | |
| Reference: | AP-42 | | |
| 9. Emissions Method Code: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: | $\frac{0.6 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.065 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 5 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 1. Pollutant Emitted: | NO _x | | |
| 2. Total Percent Efficiency of Control: | 40 % | | |
| 3. Primary Control Device Code: | 025 | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 8.77 lb/hour | 1.90 tons/year | |
| 6. Synthetically Limited? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 81 lb/MM cu ft | | |
| Reference: | AP-42 with 40% control | | |
| 9. Emissions Method Code: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: | $\frac{81 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{8.77 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

E. POLLUTANT INFORMATION

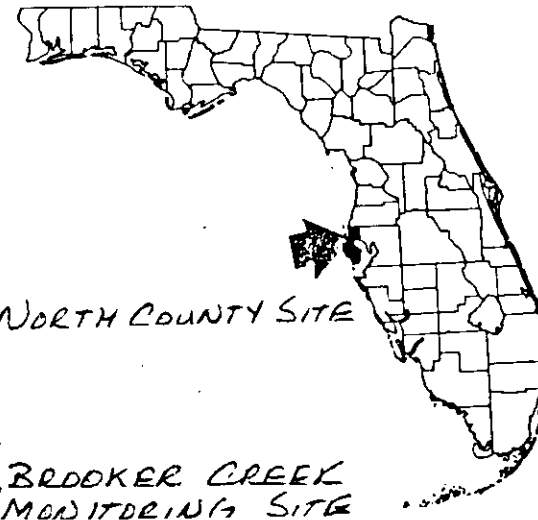
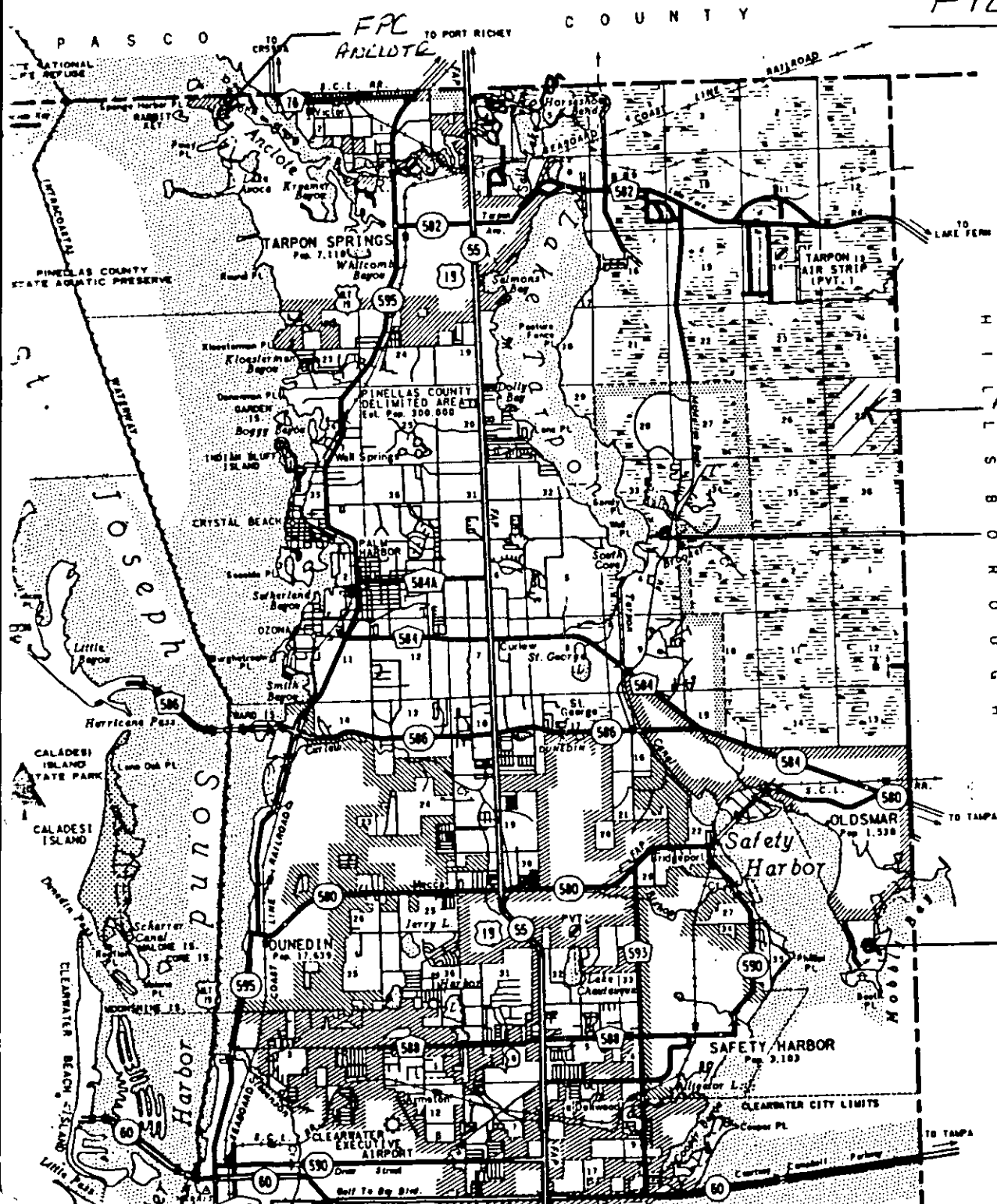
For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 6 of 6

| | | | |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 1. Pollutant Emitted: | VOC | | |
| 2. Total Percent Efficiency of Control: | Not Applicable % | | |
| 3. Primary Control Device Code: | Not Applicable | | |
| 4. Secondary Control Device Code: | Not Applicable | | |
| 5. Potential Emissions: | 0.184 lb/hour | 0.04 tons/year | |
| 6. Synthetically Limited? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| 7. Range of Estimated Fugitive/Other Emissions: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/year | | |
| 8. Emission Factor: | 1.7 lb/MM cu ft Reference: AP-42 | | |
| 9. Emissions Method Code: | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 | | |
| 10. Calculation of Emissions: | $\frac{1.7 \text{ lb}}{\text{MM cu ft}} \times \frac{0.1083 \text{ MM cu ft}}{\text{hr}} = \frac{0.184 \text{ lbs}}{\text{hr}}$ | | |
| 11. Pollutant Potential/Estimated Emissions Comment: | See Attached Report | | |

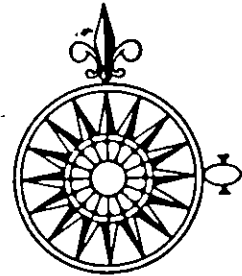
FIGURE 1

Pinellas County

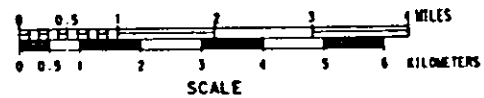


NORTH COUNTY SITE

BROOKER CREEK MONITORING SITE



FPC HIGGINS



Pinellas County is located on the Gulf of Mexico in Central Florida as can be seen from the accompanying Florida outline map. The county received its name from the Spanish phrase "punta pinal" which means point of pine. The county is the only one in Florida which, like the state itself, is a peninsula. Its only link by land with the rest of the state is through Pasco and Hillsborough Counties. Clearwater is the county seat and St. Petersburg is the principal city. The beaches and attractions in Pinellas County provide a year round lure for visitors. Known for many years as a retirement and tourist area, Pinellas now has light industry and is becoming the home of increasing numbers of young residents.

Although the county is the second smallest in area of all Florida counties, it is the most heavily populated and estimates give the ratio of better than 1,800 persons per square mile. The major crop in the county is citrus and principal types of manufacturing are food products, electrical instruments, and machinery.

Caladesi Island State Park

Caladesi Island State Park, an island wonderland with a name that translates from Spanish as "beautiful bayou." The park is located in the Gulf of Mexico off Dunedin. With St. Joseph Sound on one side and the Gulf on the other, this park is strictly an island and the idea is to keep it that way. No highways, no big parking lots, no automobile traffic, just a beautiful natural island the way it has been for centuries. The Park's greatest asset is the island's three-mile long beach on the Gulf. On the mainland side, Caladesi has a heavy mangrove growth. Between the beach and the mangroves, the land rises to a sandy ridge some twelve feet high running down