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BUREAU OF AIR REGULATION

July 23, 2004

GAS PIPELINE  
2800 Post Oak Boulevard (77056)  
P.O. Box 1396  
Houston, TX 77251-1396  
713/215-2000

Jeffery F. Koerner, P.E.  
Environmental Engineer  
Florida Department of Environmental Protection (FDEP)  
Division of Air Resource Management  
Bureau of Air Regulation, Gas Pipelines – Air Permitting South  
2600 Blair Stone Road, MS 5500  
Tallahassee, FL 32399-2400  
(850) 921-9536

Re: Minor Source Construction Permit Application  
Gulfstream Natural Gas System, L.L.C. (Gulfstream)  
Martin Natural Gas Meter Station 701 – Martin County, Florida

Dear Mr. Koerner:

In accordance with Rule 62-210.900(3), F.A.C., and on behalf of Gulfstream, Williams Gas Pipeline (WGP) hereby submits an original and three copies of an Application for Air Permit – Non-Title V Source for the above-referenced facility, located adjacent to the Florida Power & Light Martin County Power Plant. As discussed under Rules 62-4.050(4)(a)2.d, F.A.C. and 62-4.050(4)(a)4, F.A.C., please find enclosed a check for \$1,000.00 to cover the construction permit processing fee.

As mentioned during our recent phone conversations, WGP respectfully requests your assistance in expediting issuance of the construction permit, preferably on or before August 18, 2004, in order for Gulfstream to begin construction of the heater foundations. Should you have any questions or require additional information, please do not hesitate to contact me at (713) 215-4584. Thank you for your patience and cooperation in this matter.

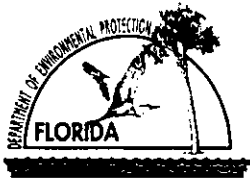
Sincerely,

A handwritten signature in black ink that reads "M. Callegari".

Michael C. Callegari  
Sr. Environmental Specialist  
Air Quality Compliance  
(On behalf of Gulfstream)

Enclosures

cc: J. J. Hill SED



# Department of Environmental Protection

## Division of Air Resources Management

### APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

#### I. APPLICATION INFORMATION

##### Identification of Facility

1. Facility Owner/Company Name: Gulfstream Natural Gas System, L.L.C. (Gulfstream)	
2. Site Name: Martin Meter Station 701	
3. Facility Identification Number: <span style="float: right;">[X] Unknown</span>	
4. Facility Location: Street Address or Other Locator: 21900 SW Warfield Blvd. (5.5 Miles NW of Indiantown) City: Indiantown <span style="margin-left: 100px;">County: Martin</span> <span style="float: right;">Zip Code: 34956</span>	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [ ] Yes [X] No

##### Application Contact

1. Name and Title of Application Contact: Michael C. Callegari – Sr. Environmental Specialist		
2. Application Contact Mailing Address: Organization/Firm: Williams Gas Pipeline Street Address: 2800 Post Oak Blvd, L-17 City: Houston <span style="margin-left: 150px;">State: TX</span> <span style="float: right;">Zip Code: 77056-6100</span>		
3. Application Contact Telephone Numbers: Telephone: (713)215-4584 <span style="float: right;">Fax: (713)215-3905</span>		

##### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	7-26-04
2. Permit Number:	0850141-081-AC

**Purpose of Application**

**Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.
- Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: \_\_\_\_\_

- Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: \_\_\_\_\_

Operation permit number to be revised: \_\_\_\_\_

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

Current operation/construction permit number(s):

\_\_\_\_\_

- Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_

**Air Construction Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

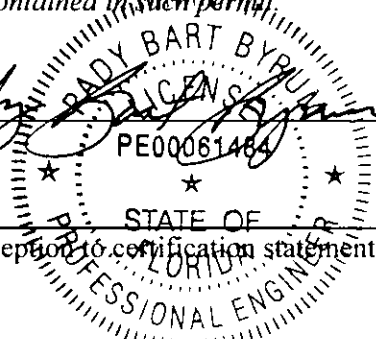
- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted,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

**Owner/Authorized Representative**

1. Name and Title of Owner/Authorized Representative: Robert E. Brink – VP Technical Services
2. Owner/Authorized Representative Mailing Address: Organization/Firm: Gulfstream Natural Gas System, L.L.C. Street Address: 2800 Post Oak Blvd, L-10 City: Houston State: TX Zip Code: 77056-6100
3. Owner/Authorized Representative Telephone Numbers: Telephone: (713)215-2684 Fax: (713)215-2551
4. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>  _____ <i>Robert E. Brink</i> Signature  _____ <i>7/16/2004</i> Date

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: Bart Byrum Registration Number: PE00061484
2. Professional Engineer Mailing Address: Organization/Firm: Willbros Engineers, Inc. Street Address: 2087 E. 71 <sup>st</sup> Street City: Tulsa State: OK Zip Code: 74136
3. Professional Engineer Telephone Numbers: Telephone: (918) 496-0400 Fax: (918) 491-9436
4. Professional Engineer Statement:  <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i>  <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i>  <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i>  <i>If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ X ], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i>  <i>If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i>  Signature: <u><i>Pady Bart Byrum</i></u> Date: <u>7-22-04</u> (seal) 

\* Attach any exceptions to certification statement.

**Scope of Application**

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
Currently No ID [New Unit]	Indirect-Fired Natural Gas Pipeline Heater No. 1	AC1E	\$1,000.00
Currently No ID [New Unit]	Indirect-Fired Natural Gas Pipeline Heater No. 2	AC1E	\$0.00

**Application Processing Fee**

Check one:  Attached - Amount: \$ 1,000.00  Not Applicable\_

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:  
Install (2) 10 mmBtu/hr indirect-fired natural gas pipeline heaters at the Gulfstream natural-gas meter and regulator facility (Martin Meter Station 701) to heat natural gas prior to delivery to the adjacent Florida Power & Light (FPL) Martin County Power Plant.

2. Projected or Actual Date of Commencement of Construction: 19 August 2004

3. Projected Date of Completion of Construction: 01 December 2004

**Application Comment**

Gulfstream respectfully requests that FDEP expedite issuance of the construction permit on or before 18 August 2004 in order for Gulfstream to begin construction of the heater foundations, as the two heaters are required to be in service before start of the 2004-2005 winter season.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: 17    East (km): 543.833    North (km): 2993.141			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 27/03/40.9    Longitude (DD/MM/SS): 80/33/28.7			
3. Governmental Facility Code: 0	4. Facility Status Code: C	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4922
7. Facility Comment (limit to 500 characters): Natural gas pipeline transmission meter and regulator facility. No air emissions units currently exist at the site.			

#### Facility Contact

1. Name and Title of Facility Contact: Christopher E. Calvert, District Manager			
2. Facility Contact Mailing Address: Organization/Firm: Gulfstream Natural Gas System, L.L.C. Street Address: 1905 Intermodal Circle, Suite 310 City: Palmetto    State: FL    Zip Code: 34221			
3. Facility Contact Telephone Numbers: Telephone: (941)723-7105    Fax: (941)723-7180			



### Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source? <input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source?
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?
4. <input type="checkbox"/> Synthetic Minor Source of HAPs?
5. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?
6. <input type="checkbox"/> One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?
7. Facility Regulatory Classifications Comment (limit to 200 characters):  Each heater will be subject to the applicable reporting, monitoring, and recordkeeping requirements set forth in 40 CFR 60, Subpart Dc.

### Rule Applicability Analysis

40 CFR 60, Subpart Dc specifies "steam generating units" as applicable to the Rule. A "steam generating unit" is defined as follows:

"A device that combusts any fuel and produces steam or heats water or any other heat transfer medium."

Since each heater has a maximum design heat input capacity of  $\geq 10$  mmBtu/hr and  $\leq 100$  mmBtu/hr, and will utilize indirect natural gas-fired burners to heat ethylene glycol as a transfer medium to heat pipeline gas prior to delivery to FPL's adjacent power plant, each heater will be subject to the Rule.

Each heater may be subject to Rule 62-296.406(2), F.A.C [State Best Available Control Technology (BACT) Requirements for Particulate Matter] and Rule 62-296.406(3), F.A.C [State BACT Requirements for Sulfur Dioxide]. However, each heater will be fueled with pipeline-quality natural gas only, and good engineering judgment and combustion practices will be maintained (proposed BACT).

### B. FACILITY POLLUTANTS

#### List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
N/A	N/A	N/A	N/A	N/A	N/A

### C. FACILITY SUPPLEMENTAL INFORMATION

#### Supplemental Requirements

1. Area Map Showing Facility Location: [X] Attached, Document ID: <u>FIG 1</u> [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID: <u>FIG 1</u> [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [X] Attached, Document ID: : <u>FIG 2</u> [ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [X] Attached, Document ID: <u>TABLE 1</u> [ ] Not Applicable
6. Supplemental Requirements Comment: Emissions calculations spreadsheet.

**III.1 EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Indirect-Fired Natural Gas Pipeline Heater #1.</p>		
<p>3. Emissions Unit Identification Number:</p> <p>ID:</p>		<p><input checked="" type="checkbox"/> No ID</p> <p><input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: C</p>	<p>5. Initial Startup Date:</p> <p>01 December 2004</p>	<p>6. Emissions Unit Major Group SIC Code: 49</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p>		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method):
2. Control Device or Method Code(s):

**Emissions Unit Details**

1. Package Unit:		
Manufacturer: Hanover Compression, LP		Model Number: N/A
2. Generator Nameplate Rating:	MW	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: 10	mmBtu/hr	
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
24 hours/day		7 days/week
52 weeks/year		8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

**B. EMISSION POINT (STACK/VENT) INFORMATION**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? PT 1		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): One of two identical combustion exhaust stacks (PT 1 and PT 2) associated with Natural Gas Pipeline Heater #1.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Natural Gas Pipeline Heater #1.			
5. Discharge Type Code: V	6. Stack Height: ≈ 15 feet	7. Exit Diameter: ≈ 2.2 feet	
8. Exit Temperature: ≈ 750 °F	9. Actual Volumetric Flow Rate: ≈ 1,500 acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 543.833 North (km): 2993.144			
14. Emission Point Comment (limit to 200 characters): One of two identical combustion exhaust stacks (PT 1 and PT 2) associated with Natural Gas Pipeline Heater #1.			

**C. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate:** Segment  1  of  1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Pipeline-quality natural gas		
2. Source Classification Code (SCC): 10200602		3. SCC Units: mmscf
4. Maximum Hourly Rate: 0.010753	5. Maximum Annual Rate: 94.2	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.1	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 930
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type ) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: NOX		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A		5. Total Percent Efficiency of Control: N/A
6. Potential Emissions: 1.34 lb/hour		5.87 tons/year	7. Synthetically Limited? [ ]
8. Emission Factor:  Reference: AP-42 Table 1.4-1 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (100 lb/mmscf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 1.34 lb/hour, (1.34 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 5.87 tons/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:  lb/hour                      tons/year	
5. Method of Compliance (limit to 60 characters):		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		



**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: CO		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A		5. Total Percent Efficiency of Control: N/A
6. Potential Emissions: 1.13 lb/hour		4.95 tons/year	7. Synthetically Limited? [ ]
8. Emission Factor: Reference: AP-42 Table 1.4-1 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (84 lb/mm scf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 1.13 lb/hour, (1.13 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 4.95 tons/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
	lb/hour	tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A	5. Total Percent Efficiency of Control: N/A	
6. Potential Emissions: 0.07 lb/hour		0.31 ton/year	7. Synthetically Limited? [ ]
8. Emission Factor:  Reference: AP-42 Table 1.4-2 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (5.5 lb/mmscf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 0.07 lb/hour, (0.07 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 0.31 ton/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: SO2		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A		5. Total Percent Efficiency of Control: N/A
6. Potential Emissions: 0.01 lb/hour		0.04 ton/year	7. Synthetically Limited? <input type="checkbox"/> <input type="checkbox"/>
8. Emission Factor:  Reference: AP-42 Table 1.4-2 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (0.6 lb/mm scf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 0.01 lb/hour, (0.01 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 0.04 ton/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters): 2,000 grains S/mm scf assumed in natural gas fuel.			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:  lb/hour                      tons/year	
5. Method of Compliance (limit to 60 characters):		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A	5. Total Percent Efficiency of Control: N/A	
6. Potential Emissions: 0.10 lb/hour		0.44 ton/year	7. Synthetically Limited? [ ]
8. Emission Factor:  Reference: AP-42 Table 1.4-2 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (7.6 lb/mm scf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 0.10 lb/hour, (0.10 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 0.44 ton/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters): PM (Total) assumed.			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	



**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>TABLE 1</u> <input type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: Emissions calculations spreadsheet.

**III.2 EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Indirect-Fired Natural Gas Pipeline Heater #2.</p>		
<p>3. Emissions Unit Identification Number:</p> <p>ID:</p>		<p><input checked="" type="checkbox"/> No ID</p> <p><input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: C</p>	<p>5. Initial Startup Date:</p> <p>01 December 2004</p>	<p>6. Emissions Unit Major Group SIC Code: 49</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p>		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method):
2. Control Device or Method Code(s):

**Emissions Unit Details**

1. Package Unit: Manufacturer: Hanover Compression, LP	Model Number: N/A
2. Generator Nameplate Rating:	MW
3. Incinerator Information:	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: 10	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr                      tons/day
3. Maximum Process or Throughput Rate:	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	



**B. EMISSION POINT (STACK/VENT) INFORMATION**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? PT 3		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): One of two identical combustion exhaust stacks (PT 3 and PT 4) associated with Natural Gas Pipeline Heater #2.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Natural Gas Pipeline Heater #2			
5. Discharge Type Code: V	6. Stack Height: ≈ 15 feet	7. Exit Diameter: ≈ 2.2 feet	
8. Exit Temperature: ≈ 750 °F	9. Actual Volumetric Flow Rate: ≈ 1,500 acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 543.833 North (km): 2993.138			
14. Emission Point Comment (limit to 200 characters): One of two identical combustion exhaust stacks (PT 3 and PT 4) associated with Natural Gas Pipeline Heater #2.			

**C. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate:** Segment  1  of  1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Pipeline-quality natural gas		
2. Source Classification Code (SCC): 10200602		3. SCC Units: mmscf
4. Maximum Hourly Rate: 0.010753	5. Maximum Annual Rate: 94.2	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.1	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 930
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment   of

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: NOX		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A		5. Total Percent Efficiency of Control: N/A
6. Potential Emissions: 1.34 lb/hour		5.87 tons/year	7. Synthetically Limited? [ ]
8. Emission Factor: Reference: AP-42 Table 1.4-1 (07/98) + 25% contingency factor.			9. Emissions Method Code: 3
10. Calculation of Emissions (limit to 600 characters): (100 lb/mmscf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 1.34 lb/hour, (1.34 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 5.87 tons/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year	
5. Method of Compliance (limit to 60 characters):		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: CO		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A	5. Total Percent Efficiency of Control: N/A	
6. Potential Emissions: 1.13 lb/hour		4.95 tons/year	7. Synthetically Limited? [ ]
8. Emission Factor:  Reference: AP-42 Table 1.4-1 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (84 lb/mmscf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 1.13 lb/hour. (1.13 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 4.95 tons/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:  lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A	5. Total Percent Efficiency of Control: N/A	
6. Potential Emissions: 0.07 lb/hour		0.31 ton/year	7. Synthetically Limited? [ ]
8. Emission Factor:  Reference: AP-42 Table 1.4-2 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (5.5 lb/mmsecf) x (10.753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 0.07 lb/hour, (0.07 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 0.31 ton/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
	lb/hour	tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: SO2		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A	5. Total Percent Efficiency of Control: N/A	
6. Potential Emissions: 0.01 lb/hour		0.04 ton/year	7. Synthetically Limited? [ ]
8. Emission Factor: Reference: AP-42 Table 1.4-2 (07/98) + 25% contingency factor.		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (0.6 lb/mm scf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) = 0.01 lb/hour, (0.01 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) = 0.04 ton/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters): 2,000 grains S/mm scf assumed in natural gas fuel.			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:	
	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: N/A	4. Secondary Control Device Code: N/A		5. Total Percent Efficiency of Control: N/A
6. Potential Emissions: 0.10 lb/hour		0.44 ton/year	
8. Emission Factor:  Reference: AP-42 Table 1.4-2 (07/98) + 25% contingency factor.		7. Synthetically Limited? [   ]	
		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): (7.6 lb/mmscf) x (10,753 scf/hour) x (1 mm / 1,000,000) x (1.25) ≈ 0.10 lb/hour, (0.10 lb/hour) x (8760 hours / 1yr) x (1 ton / 2000 lb) ≈ 0.44 ton/year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters): PM (Total) assumed.			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:		
	lb/hour	tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**E. VISIBLE EMISSIONS INFORMATION  
(Only Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation  1  of  1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule                      [   ] Other
3. Requested Allowable Opacity: Normal Conditions: 20                      %                      Exceptional Conditions: 27                      % Maximum Period of Excess Opacity Allowed: 6                      min/hour or <span style="margin-left: 300px;">Exceptional Conditions: 40                      %</span> Maximum Period of Excess Opacity Allowed: 2                      min/hour	
4. Method of Compliance: Units will be fueled with pipeline-quality natural gas only. Good engineering judgment & combustion practices will be maintained.	
5. Visible Emissions Comment (limit to 200 characters): Rule 62-296.406(1), F.A.C.	

**F. CONTINUOUS MONITOR INFORMATION  
(Only Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

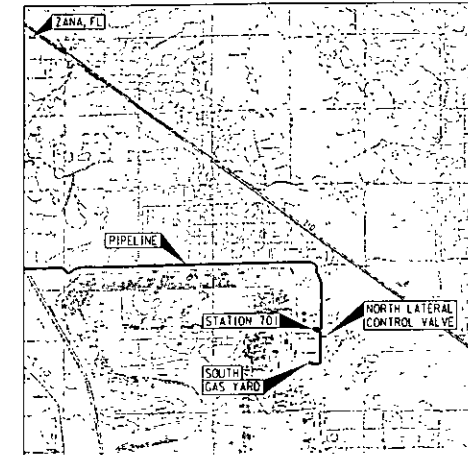
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:                      [   ] Rule                      [   ] Other	
4. Monitor Information: Manufacturer: Model Number:                      Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	



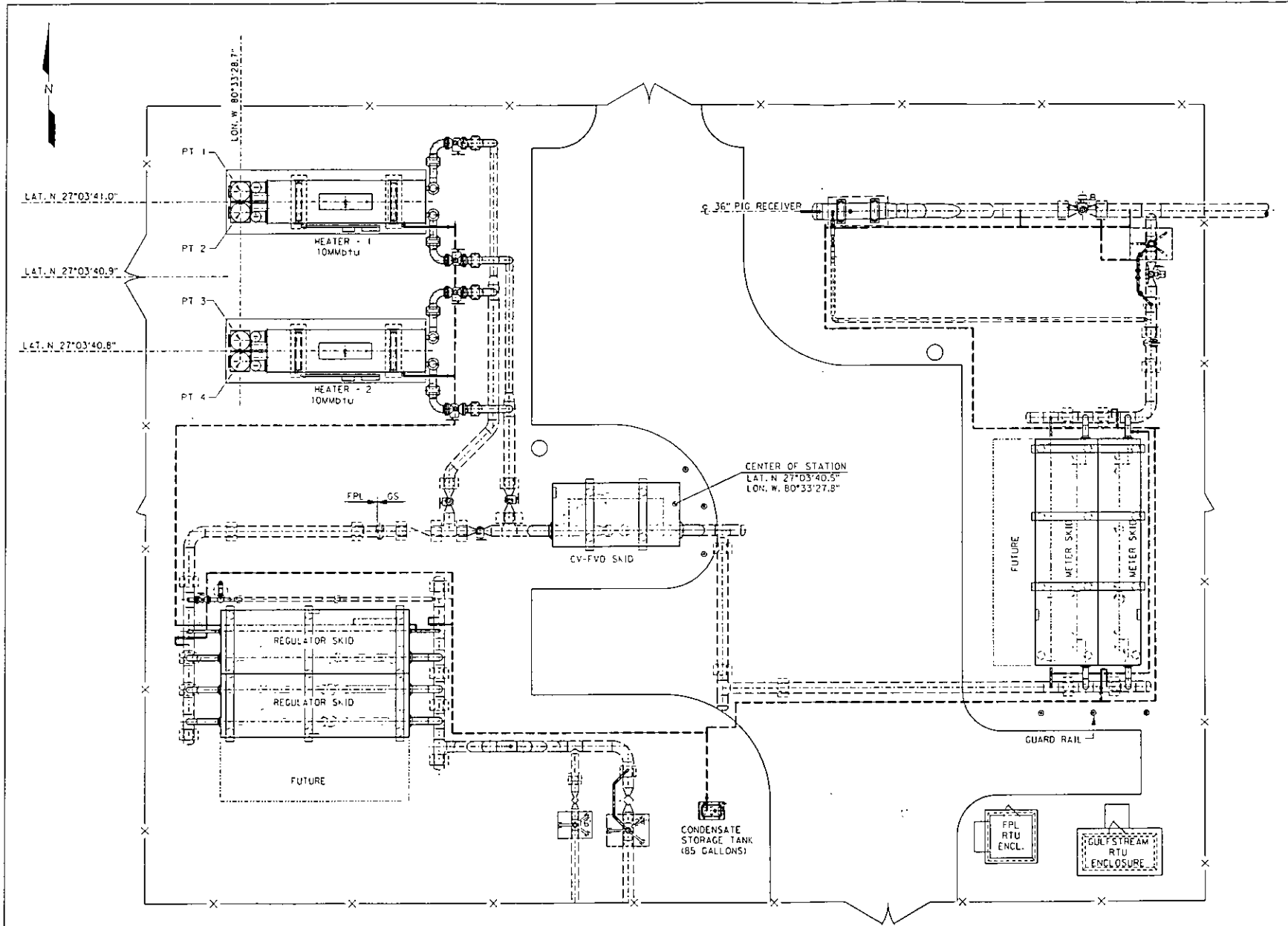
**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input checked="" type="checkbox"/> Attached, Document ID: <u>TABLE 1</u> <input type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: Emissions calculations spreadsheet.



VICINITY MAP  
SCALE: 1"=5000'



FOR REFERENCE ONLY  
1/20/2004

DWG. NO.		REFERENCE DRAWINGS		SCALE		DATE	DRAWN	APPROVED	PIN NO.	NET PROJ. NO.	DRAWING NUMBER	SHEET
				1"=10'		7/7/04	JLW	JHC	5464, 46248	51311	G-12-M-701-8000	1 OF 1

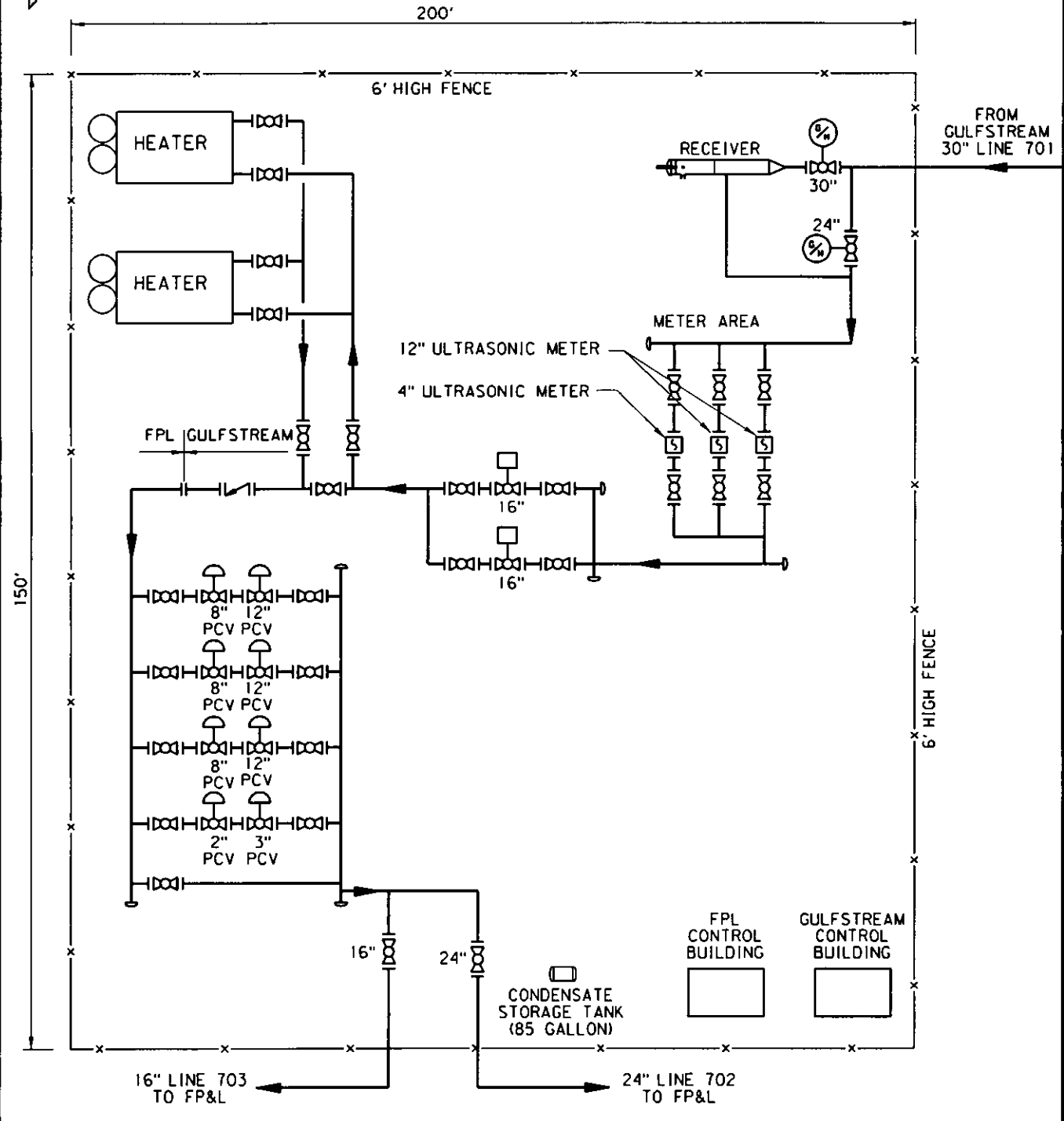
FIG 1			
NO.	REVISION	DATE	APPR.
0	FOR REFERENCE ONLY	20-JUL-04	JSC

		FACILITY PLOT PLAN MARTIN METER STATION 701 MARTIN COUNTY, FLORIDA	
		1/20/2004	



GULFSTREAM METER STATION  
 MARTIN CO., FL  
 SEC 20 & 29, T39S-R38E



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FIG 2

NO.		REVISION		DATE		APPR.	
0		FOR REFERENCE ONLY		19-JUL-04		JSC	
SCALE	DATE	DRAWN	APPROVED	DATE	APPROVED	WEI PROJ. NO.	DRAWING NUMBER
NONE	07-07-04	B2	JHC			51311	STA-701



**BLOCK/PROCESS FLOW DIAGRAM**  
 MARTIN METER STATION 701  
 MARTIN COUNTY, FLORIDA

WEI PROJ. NO.	DRAWING NUMBER	SHEET
51311	STA-701	1 OF 1

TABLE 1																		
PROPOSED MINOR SOURCE AIR PERMIT APPLICATION																		
POTENTIAL TO EMIT SUMMARY PAGE																		
Gulfstream Natural Gas System, L.L.C.																		
Martin Meter Station 701 - Martin County, FL																		
NOTE: Data based on EPA emission factors + 25% contingency factor.																		
Each indirect-fired heater subject to 40 CFR 60 - Subpart Dc (NSPS) monitoring/recordkeeping/reporting requirements.																		
SOURCE DESCRIPTION	Manufacturer	Design Heat Input (MMBtu/hr)	Fuel Lower Heating Value (Btu/scf)	Annual Operating Hours	Fuel Use (A) (scf/hr)	Fuel Use (MMscf/yr)	Number of Combustion Exhaust Stacks Per Heater	NO <sub>x</sub> (B) (lb/hr)	CO (B) (lb/hr)	VOC (C) (lb/hr)	PM <sub>10</sub> (C) (lb/hr)	SO <sub>2</sub> (C) (lb/hr)	NO <sub>x</sub> (B) (ton/yr)	CO (B) (ton/yr)	VOC (C) (ton/yr)	PM <sub>10</sub> (C) (ton/yr)	SO <sub>2</sub> (C) (ton/yr)	
<b>PROPOSED EQUIPMENT:</b>																		
Indirect-Fired, Non-Low NO <sub>x</sub> Burner Natural Gas Heater Hanover Compression, LP		10	930	8760	10753	94.2	2	1.34	1.13	0.07	0.10	0.01	5.89	4.95	0.32	0.45	0.04	
Indirect-Fired, Non-Low NO <sub>x</sub> Burner Natural Gas Heater Hanover Compression, LP		10	930	8760	10753	94.2	2	1.34	1.13	0.07	0.10	0.01	5.89	4.95	0.32	0.45	0.04	
<b>TOTAL (Units 1-2) =</b>								<b>2.69</b>	<b>2.26</b>	<b>0.15</b>	<b>0.20</b>	<b>0.02</b>	<b>TOTAL (Units 1-2) =</b>	<b>11.77</b>	<b>9.89</b>	<b>0.65</b>	<b>0.89</b>	<b>0.07</b>
NO <sub>x</sub> emission factor (EF) =	100 lb/MMscf																	
CO EF =	84 lb/MMscf																	
VOC EF =	5.5 lb/MMscf																	
PM <sub>10</sub> EF =	7.6 lb/MMscf																	
SO <sub>2</sub> EF =	0.6 lb/MMscf																	
(A) - Fuel use (scf/hr) based on assumed fuel lower heating value of 930 Btu/scf.																		
(B) - Emission rates based on AP-42 Table 1.4-1 (07/98).																		
(C) - Emission rates based on AP-42 Table 1.4-2 (07/98).																		
PM <sub>10</sub> emission rate based on lb/MMscf EF (PM (Total) assumed).																		
SO <sub>2</sub> emission rate based on lb/MMscf EF (2,000 grains S/MMscf assumed).																		
<b>Example Calculation (NO<sub>x</sub>):</b>																		
Fuel Use (scf/hr) = [(10 MMBtu/hr * 1,000,000) / (930 Btu/scf)] = 10,753 scf/hr																		
NO <sub>x</sub> (lb/hr) = [(100 lb/MMscf / 1,000,000) * (10,753 scf/hr)] * 1.25 = 1.34 lb/hr																		
NO <sub>x</sub> (ton/yr) = [(1.34 lb/hr) * (8,760 hrs/yr / 2,000 lb/ton)] = 5.89 tons/yr																		