



Department of Environmental Protection

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DEC 10 2003

Division of Air Resources Management

BUREAU OF AIR REGULATION

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Citrusuco North America, Inc.	
2. Site Name:	Citrusuco North America, Inc.
3. Facility Identification Number: 1050001	<input type="checkbox"/> Unknown
4. Facility Location: Indiantown Street Address or Other Locator: Highway 60 - East of Lake Wales City: Lake Wales County: Polk Zip Code: 33859	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Name and Title of Application Contact: Wayne E. Griffin PE	
2. Application Contact Mailing Address: Organization/Firm: G2 Services, Ltd. Street Address: 3119 Lithia Pinecrest Road City: Valrico State: FL Zip Code: 33594	
3. Application Contact Telephone Numbers: Telephone: (812)685-9727 Fax: (813) 684-1691	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

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

- [] Initial Title V air operation permit for an existing facility which is classified as a Title V source.
- [] Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: _____

- [] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: _____

Operation permit number to be revised: _____

- [X] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: _____

- [] Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: _____

Reason for revision: _____

Air Construction Permit Application

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

- [X] 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.

4. Professional Engineer Statement:

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

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air 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

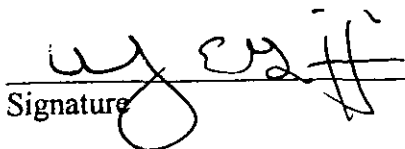
(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions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

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

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (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.

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.

Signature



(seal)

Date

12/5/03

* Attach any exception to certification statement.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Remove existing 800 hp boiler and replace with new 2000 hp boiler. No change in process rate is anticipated.

2. Projected or Actual Date of Commencement of Construction: 7/1/2004

3. Projected Date of Completion of Construction: 10/1/2005

Application Comment

The facility will use, natural gas as a primary fuel source. Low sulfur #4 will be used as a backup fuel. No changes in permit limits are anticipated. The existing natural gas and emergency #4 fuel limits will not change.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17				East (km): 452.4	North (km): 3085.5
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 27/53/42				Longitude (DD/MM/SS): 81/21/01	
3. Governmental Facility Code: O	4. Facility Status Code: A	5. Facility Major Group SIC Code: 20	6. Facility SIC(s): 2033		
7. Facility Comment (limit to 500 characters):					

Facility Contact

1. Name and Title of Facility Contact: Marcos Valim, VP					
2. Facility Contact Mailing Address: Organization/Firm: Citrusuco Street Address: Post Office Box 3950 City: Lake Wales State: Florida Zip Code: 33859-3950					
3. Facility Contact Telephone Numbers: Telephone: (863) 696-7400 Fax: (863) 696-1303					

Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input type="checkbox"/> Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	

List of Applicable Regulations

ON FILE	

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		
VOC					
CO					
PM					
SO ₂					
PM ₁₀					
NO _x					

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: _____) or previously submitted to DEP (Date and DEP Office: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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
(All Emissions Units)**

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one) <input 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). <input checked="" 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. <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.			
2. Regulated or Unregulated Emissions Unit? (Check one) <input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.			
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): 2000 Hp Boiler #1A			
4. Emissions Unit Identification Number: ID:			<input checked="" type="checkbox"/> No ID <input type="checkbox"/> ID Unknown
5. Emissions Unit Status Code: C	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 51	8. Acid Rain Unit? [N]
9. Emissions Unit Comment: (Limit to 500 Characters) Boiler #1A will replace boiler #1 EU001)			

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

None

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:	
Manufacturer: Johnston 2000 HP Boiler	Model Number: PFTS2000-3
2. Generator Nameplate Rating: N/A	MW
3. Incinerator Information: N/A	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	84.35	mmBtu/hr
2. Maximum Incineration Rate: N/A	lb/hr	tons/day
3. Maximum Process or Throughput Rate: N/A		
4. Maximum Production Rate: N/A		
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): N/A		
3 / mm		

.0295 mm for the small

.0211 mm for the

PM 13.7 #/mm³

SO₂ 1.6 #/mm³

NO_x 14.0 #/mm³

CO 35 #/mm³

VOC 5.5 #/mm³ < 42 %

**D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Boiler #1A		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): N/A			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 70 feet	7. Exit Diameter: 3.8 feet	
8. Exit Temperature: 400 °F	9. Actual Volumetric Flow Rate: 25,672 acfm	10. Water Vapor: 11.8%	
11. Maximum Dry Standard Flow Rate: N/A dscfm		12. Nonstack Emission Point Height: N/A feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 452.4 North (km): 3085.5			
14. Emission Point Comment (limit to 200 characters):			

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): External Combustion Boilers - Industrial - Fired on natural gas Heat Input rate between 10 and 100 MMBTU/hr.		
2. Source Classification Code (SCC): 1-02-006-02		3. SCC Units: mmcf
4. Maximum Hourly Rate: 0.0811	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1040
10. Segment Comment (limit to 200 characters): Natural gas is the primary fuel for this boiler. No increase in overall fuel usage is requested.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): External Combustion Boilers - Industrial - Fired on Waste Oil or #4 Heat Input rate between 10 and 100 MMBTU/hr.		
2. Source Classification Code (SCC): 1-02-005-01		3. SCC Units: 1,000 Gallons Burned
4. Maximum Hourly Rate: 0.592	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 145
10. Segment Comment (limit to 200 characters): Standby use only.		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: N/A		2. Total Percent Efficiency of Control: 0%	
3. Potential Emissions: lb/hour		4. Synthetically Limited? [N] tons/year	
5. Range of Estimated Fugitive Emissions: N/A [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code: 3	
8. Calculation of Emissions (limit to 600 characters):			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): N/A			

Allowable Emissions Allowable Emissions 1 of 1

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

H. VISIBLE EMISSIONS INFORMATION
 (Only Regulated 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: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: 20% Exceptional Conditions: 40% Maximum Period of Excess Opacity Allowed: 2min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters): Rule 62-296.406, F.A.C.	

I. CONTINUOUS MONITOR INFORMATION
 (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____ N/A

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> 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):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input checked="" 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:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

CITROSUCO NA

SUPPLEMENTAL
DOCUMENTS

EMISSION CALCULATIONS

BOILERS GENERAL

Citrosuco NA
#1050001

Citrosuco is proposing remove the existing 800 hp boiler #1 and replace it with a 2000 hp boiler #1A. All permit limits will be unchanged. The existing Title V permit has a limit of 577.5 mmcf of gas usage for the boilers. Proration of the gas usage would limit the new boiler to 40% of the total or 231 mmcf. Calculations for burning the standby oil are not provided due to the small gallonage permitted.

Potential Emissions Boiler 1A

NO_x

Emission Factor: 100 #/mmcf AP42 Table 1.4-1

Emissions: 231 mmcf x 100 #/2000#/TN = 11.55 tons/year

CO

Emission factor: 84 #/mmcf AP42 Table 1.4-1

Emission: 231 mmcf x 84 #/2000 #/TN = 9.7 tons/year

PARTICULATES

Emission Factor: 7.6 #/mmcf AP42 Table 1.4-2

Emissions: 231 mmcf x 7.6 #/2000 #/TN = 0.88 tons/year

VOC

Emission Factor: 5.5 #/mmcf AP42 Table 1.4-2

Emissions: 231 mmcf x 5.5 #/2000 #/TN = 0.64 tons/year

SO₂

Emission Factor: 0.6 #/mmcf AP42 Table 1.4-2

Emissions: 231 mmcf x 0.6 #/2000 #/TN = 0.07 tons/year

Actual Emissions Boiler #1

Actual emissions are based on calendar 2002 usage of 22.83 mmcf.

NO_x

Emission Factor: 100 #/mmcf AP42 Table 1.4-1

Emissions: 22.83 mmcf x 100 #/2000#/TN = 1.14 tons/year

CO

Emission factor: 84 #/mmcf AP42 Table 1.4-1

Emission: 22.83 mmcf x 84 #/2000 #/TN = 0.96 tons/year

PARTICULATES

Emission Factor: 7.6 #/mmcf AP42 Table 1.4-2

Emissions: 22.83 mmcf x 7.6 #/2000 #/TN = 0.09 tons/year

VOC

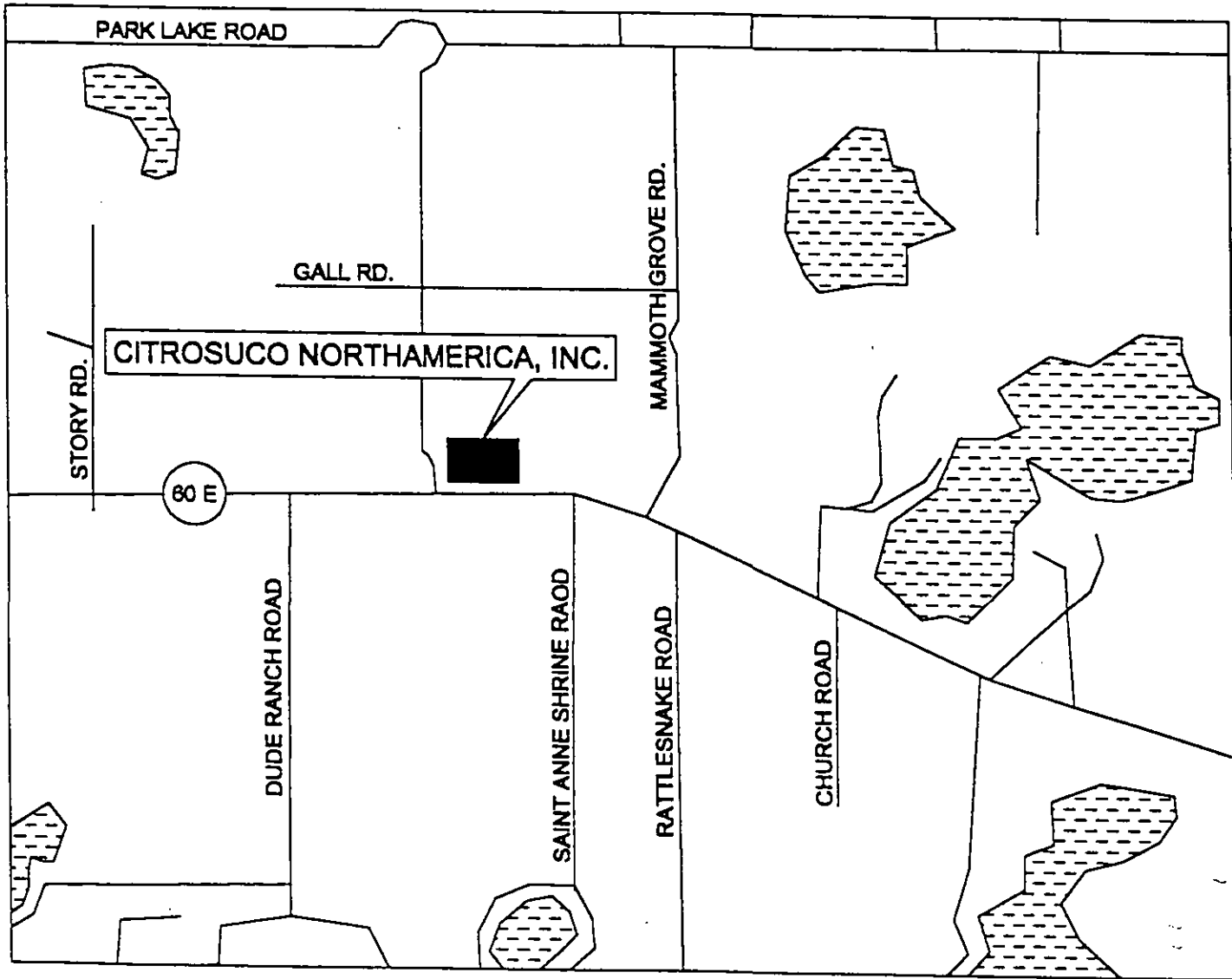
Emission Factor: 5.5 #/mmcf AP42 Table 1.4-2

Emissions: 22.83 mmcf x 5.5 #/2000 #/TN = 0.06 tons/year

SO₂

Emission Factor: 0.6 #/mmcf AP42 Table 1.4-2

Emissions: 22.83 mmcf x 0.6 #/2000 #/TN = 0.01 tons/year



PLANT LOCATION MAP		
CITROSUCO NORTH AMERICA, INC.		
DRAWN BY: E. POWERS	DATE: 6/3/98	SCALE: N.T.S.

G2 Services Ltd.

3119 Lithia Pinecrest Rd.
Valrico, Florida 33594