


Florida Department of
Environmental Protection

Memorandum

TO: Michael Cooke
FROM: Trina Vielhauer 
DATE: April 29, 2004
SUBJECT: Citrosuco North America, Inc.
2,000 Horsepower Boiler #1A

Attached for approval and signature is a final air construction permit to allow Citrosuco North America, Inc. to replace of an existing 800 horsepower boiler (E.U. ID No. -001) with a new 2,000 horsepower boiler (E.U. ID No. -013). The applicant did not seek any relaxation in currently enforceable conditions for its other existing emissions units.

This project is not subject to PSD. There are no associated emissions increases because the current fuel use limit was not changed by this permitting action.

No comments were received during the public comment period.

I recommend your approval and signature.

Attachments

/es

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

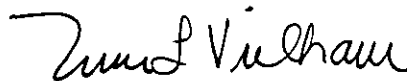
Mr. Nick Emanuel, C.O.O.
Citrusuco North America, Inc.
P.O. Box 3950
Lake Wales, Florida 33898-3950

DEP File No. 1050001-007-AC
2,000 Horsepower Boiler #1A
Polk County

Enclosed is Final Permit Number 1050001-007-AC. This permit authorizes Citrusuco North America, Inc. to replace an existing 800 horsepower Johnson Boiler #1, Emissions Unit I.D. -001, with a new 2,000 horsepower Johnson Boiler #1A, Emissions Unit I.D. -013. at its citrus juice processing plant located at 5937 Highway 60, East, Lake Wales, Polk County. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

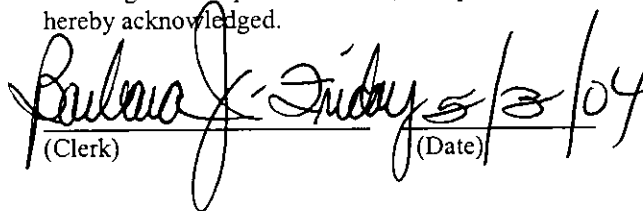
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 5/3/04 to the person(s) listed:

Mr. Nick Emanuel, C.O.O., Citrusuco, North America *
Mr. Wayne Griffin, P.E., G2 Services
Mr. Jason Waters, P.E., DEP SWD

Clerk Stamp

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


(Clerk) (Date) 5/3/04

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>Forrest Lingenfelter</i></p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p><i>Forrest Lingenfelter</i> <i>5/5/04</i></p>
<p>1. Article Addressed to:</p> <p>Mr. Nick Emanuel, C.O.O. Citrosuco North America, Inc. P.O. Box 3950 Lake Wales, Florida 33898-3950</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label) </p>	<p>7001 1140 0002 1578 1178</p>
<p>PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-1540</p>	

U.S. Postal Service CERTIFIED MAIL RECEIPT <i>(Domestic Mail Only; No Insurance Coverage Provided)</i>																	
7001 1140 0002 1578 1178	<table border="1"> <tr> <td colspan="2" data-bbox="391 1208 1034 1266" style="text-align: center;"> NO POSTAL USE Mr. Nick Emanuel, C.O.O. </td> </tr> <tr> <td data-bbox="391 1272 584 1315">Postage</td> <td data-bbox="584 1272 774 1315">\$</td> </tr> <tr> <td data-bbox="391 1321 584 1364">Certified Fee</td> <td data-bbox="584 1321 774 1364"></td> </tr> <tr> <td data-bbox="391 1370 584 1412">Return Receipt Fee (Endorsement Required)</td> <td data-bbox="584 1370 774 1412"></td> </tr> <tr> <td data-bbox="391 1419 584 1461">Restricted Delivery Fee (Endorsement Required)</td> <td data-bbox="584 1419 774 1461"></td> </tr> <tr> <td data-bbox="391 1468 584 1506">Total Postage & Fees</td> <td data-bbox="584 1468 774 1506">\$</td> </tr> <tr> <td colspan="2" data-bbox="391 1513 1034 1655"> <p>Sent To Mr. Nick Emanuel, C.O.O. Street, Apt. No., or PO Box No. P. O. Box 3950 City, State, ZIP+4 Lake Wales, Florida 33898-3950</p> </td> </tr> <tr> <td colspan="2" data-bbox="391 1661 1034 1685"> <p>PS Form 3800, January 2001 See Reverse for Instructions</p> </td> </tr> </table>	NO POSTAL USE Mr. Nick Emanuel, C.O.O.		Postage	\$	Certified Fee		Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)		Total Postage & Fees	\$	<p>Sent To Mr. Nick Emanuel, C.O.O. Street, Apt. No., or PO Box No. P. O. Box 3950 City, State, ZIP+4 Lake Wales, Florida 33898-3950</p>		<p>PS Form 3800, January 2001 See Reverse for Instructions</p>	
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<p>PS Form 3800, January 2001 See Reverse for Instructions</p>																	



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

PERMITTEE

Citrosuco North America, Inc.
P.O. Box 3950
Lake Wales, Florida 33859-3950

Permit No.	1050001-007-AC
Project	2,000 Horsepower Boiler #1A
SIC No.	20, 2033
Expires:	May 1, 2009

Authorized Representative:

Nick Emanuel, C.O.O.

PROJECT AND LOCATION

This permit authorizes Citrosuco North America, Inc., Lake Wales Plant, to install a replacement to the No. 1 process steam boiler. The new boiler will have a physical capacity of 84.35 MMBtu/hour or less and fire natural gas and low sulfur No. 4 fuel oil (0.5% sulfur by weight).

This facility is located at 5937 Highway 60, East, Lake Wales, Polk County. The UTM coordinates are: Zone 17; 452.4 km E and 3085.5 km N.

STATEMENT OF BASIS

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and the Florida Administrative Code (F.A.C.) Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297. The above named permittee is authorized to construct the emissions units in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

APPENDICES

The attached appendix is a part of this permit:

Appendix GC General Permit Conditions

Michael G. Cooke, Director
Division of Air Resource
Management

"More Protection, Less Process"

Printed on recycled paper.

AIR CONSTRUCTION PERMIT
SECTION I. FACILITY INFORMATION

FACILITY AND PROJECT DESCRIPTION

The facility is an existing citrus juice processing facility. The project is an air construction permit for a replacement to the existing 800 horsepower Johnson Super 509, high efficiency boiler. This boiler, Emissions Unit I.D. -001, had a design rating of 27,000 pounds per hour steam and a design heat input rate of 31.0 MMBtu per hour, at the Lake Wales facility. The applicant states that the replacement 2,000 horsepower Johnson boiler will use the same fuel (natural gas primary fuel with 0.5 % sulfur, by weight, No. 4 fuel oil standby fuel) and has a design heat input rate of 84.35 MMBtu per hour. The applicant did not seek any relaxation in currently enforceable conditions for its other existing emissions units.

The emissions unit addressed by this permit is a new 2,000 Horsepower Boiler #1A, Emissions Unit I.D. -013.

The annual potential emissions associated with this project in tons per year are approximately: PM, 0.88; SO₂, 0.07; NO_x, 11.55; CO, 9.7; VOC, 0.64. The facility information, project scope, emissions and rule applicability are described in detail in the Department's Technical Evaluation and Determination.

REVIEWING AND PROCESS SCHEDULE

December 10, 2003	Received permit application (no application fee required)
December 10, 2003	Application complete
March 2, 2004	Distributed Notice of Intent to Issue and supporting documents
March 12, 2004	Notice of Intent published in the Winter Haven News Chief

RELEVANT DOCUMENTS

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department.

- Permit application
- Department's Technical Evaluation and Determination
- Department's Intent to Issue

AIR CONSTRUCTION PERMIT
SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

The following specific conditions apply to all emissions units at this facility addressed by this permit.

ADMINISTRATIVE

1. Regulating Agencies: All documents related to applications for permits to construct, operate or modify an emissions unit should be submitted to the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, phone number 850/488-0114. All documents related to reports, tests, minor modifications and notifications shall be submitted to the Department's Southwest District office at 3804 Coconut Palm Drive, Tampa, Florida 33619-8218, and phone number 813/744-6100.
2. General Conditions: The owner and operator is subject to and shall operate under the attached General Permit Conditions G.1 through G.15 listed in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes(F.S.). [Rule 62-4.160, F.A.C.]
3. Terminology: The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code.
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S., and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-110, 62-204, 62-212, 62-213, 62-296, 62-297 and the Code of Federal Regulations Title 40, Part 60, adopted by reference in the F.A.C. regulations. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C., and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. New or Additional Conditions: Pursuant to Rule 62-4.080, F.A.C., for good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Expiration: This air construction permit shall expire on May 1, 2009. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation prior to 60 days before the expiration of the permit. [Rules 62-210.300(1), 62-4.070(4), 62-4.080, and 62-4.210, F.A.C.]
7. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit must be obtained prior to the beginning of construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
8. Title V Operation Permit Required: This permit authorizes construction and/or installation of the permitted emissions unit and initial operation to determine compliance with Department rules. A revision to the Title V operation permit is required for regular operation of the permitted emissions unit. The owner or operator shall apply for a Title V operation permit at least ninety days prior to

AIR CONSTRUCTION PERMIT
SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Department's Southwest District office. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

OPERATIONAL REQUIREMENTS

9. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the Department's Southwest District office. The notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules. [Rule 62-4.130, F.A.C.]
10. Circumvention: No person shall circumvent any air pollution control device or allow the emission of air pollutants without the applicable air pollution control device operating properly. [Rule 62-210.650, F.A.C.]
11. Excess Emissions: This permit does not change any authorization for excess emissions provided by other Department permits for other emissions units. The following excess emissions provisions of state rule apply to this emissions unit (emissions unit 005) as specified below.
 - (a) Excess emissions resulting from start-up and shutdown are permitted for emissions unit 005 providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized, but in no case exceed two hours in any 24 hour period.
 - (b) Excess emissions resulting from malfunction of this emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized, but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.
 - (c) Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up, shutdown, or malfunction shall be prohibited.

[Rules 62-210.700(1), (4) and (5), F.A.C.]

AIR CONSTRUCTION PERMIT
SECTION II. FACILITY-WIDE SPECIFIC CONDITIONS

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

12. Determination of Process Variables: [Rule 62-297.310(5), F.A.C.]

- (a) **Required Equipment.** The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting-standards.
- (b) **Accuracy of Equipment.** Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

REPORTING AND RECORD KEEPING REQUIREMENTS

- 13. Duration of Record Keeping: Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least five years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule. [Rules 62-4.160(14)(a) & (b) and 62-213.440(1)(b)2.b., F.A.C.]
- 14. Excess Emissions Report: In case of excess emissions resulting from malfunction, the owner or operator shall notify the Department's Southwest District office within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the Department may request a written summary report of the incident. A full written report on the malfunctions shall be submitted in a quarterly report if requested by the Department. [Rules 62-4.130 and 62-210.700(6), F.A.C.]
- 15. Annual Operating Report for Air Pollutant Emitting Facility: The Annual Operating Report for Air Pollutant Emitting Facility shall be completed each year and shall be submitted to the Department's Southwest District office and, if applicable, the appropriate local program by March 1 of the following year. [Rule 62-210.370(3), F.A.C.]

AIR CONSTRUCTION PERMIT
SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

The following specific conditions apply to the following emissions units after construction.

EMISSIONS UNIT NO.	EMISSIONS UNIT DESCRIPTION
013	2,000 Horsepower Boiler #1A

[Note: This emissions unit is a process steam boiler that is installed to serve as a source of steam to meet citrus processing needs. This boiler is limited to one of a physical capacity of 84.35 MMBtu/hour or less, that fires natural gas and low sulfur No. 4 fuel oil (0.5% sulfur by weight). This emissions unit is subject to the requirements of the state rules as indicated in this permit. This emissions unit is subject to a determination of Best Available Control Technology pursuant to Rule 62-296.406, F.A.C. The fuel authorized by this permit is consistent with that BACT determination. This emissions unit is subject to regulation under the New Source Performance Standards of 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.]

STATE AND FEDERAL RULE REQUIREMENTS

OPERATIONAL REQUIREMENTS

1. **Hours of Operation:** This emissions unit may operate up to 8,760 hours/year. [Rules 62-4.070(3) and 62-210.200, F.A.C., and limitation on potential to emit]
2. **Methods of Operation - (i.e., Fuels).**
 The permittee is authorized to burn only the following fuels in each of the boilers:
 - a. Primary fuel: Natural gas.
 - b. Standby fuel, No. 4 fuel oil with a maximum sulfur content of 0.5% S by weight or better grade. Standby fuel, No. 4 fuel oil, may only be used during periods of natural gas supply curtailment. [Rules 62-210.200(PTE), 62-4.160(2), and 62-213.440(1), F.A.C.; and, 1050001-001-AV]
3. **Capacity.**
 - a. The maximum total natural gas usage in all of the boilers (including insignificant boiler) shall not exceed 577.5 MMcf in any 12 consecutive month period.
 - b. Maximum total No. 4 oil usage in all of the boilers shall not exceed 237,600 gallons in any 12 consecutive month period. [Rules 62-4.070(3), 62-210.200 and 62-296.406, F.A.C.; and, 1050001-001-AV]

[Note: This condition limits distillate fuel oil consumption to the equivalent of 240 hours per year.]

4. **Visible Emissions Limited:** Visible emissions from this emissions unit shall not exceed 20 percent opacity except for one two-minute period per hour during which opacity shall not exceed 40 percent. [Rule 62-296.406(1), F.A.C.]

COMPLIANCE MONITORING AND TESTING REQUIREMENTS

5. **Fuel Sulfur Content Tests:** The owner or operator shall determine the sulfur content of each delivery of fuel oil received for these emissions units using ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, and one of the following test methods for sulfur in petroleum products: ASTM D129-91, ASTM D1552-90, ASTM D2622-94, or ASTM D4294-90. A more recent version of these methods may be used. The owner or operator may comply with this requirement by receiving records from the fuel supplier that indicate the sulfur content of the

AIR CONSTRUCTION PERMIT

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

distillate fuel oil delivered complies with the sulfur limit of specific condition 3 of this section. [Rules 62-4.070(3) and 62-297.440, F.A.C.]

6. Visible Emission Tests Required: The owner or operator shall demonstrate compliance with the visible emissions limit for this emissions unit upon initial installation and annually using EPA Method 9, as described in 40 CFR 60 Appendix A. [Rules 62-4.070(3) and 62-297.310, F.A.C.]

REPORTING AND RECORD KEEPING REQUIREMENTS

7. Fuel Sulfur Content Records: The owner or operator shall maintain records of sulfur content of each delivery of distillate fuel oil received for these emissions units, made pursuant to the requirements of specific condition 5 of this section. [Rule 62-4.070(3), F.A.C.]
8. Distillate Fuel Oil Consumption Records: The owner or operator shall make and maintain monthly records of natural gas and distillate fuel oil consumption for this emissions unit. From the monthly records of consumption of all permitted fuels, the owner or operator shall make records of the consecutive 12-month fuel consumption to demonstrate compliance with the fuel consumption limits of specific condition 3 of this section. All of these records shall be completed within ten days of the end of each month. [Rule 62-4.070(3), F.A.C.]
9. Pursuant to 40 CFR 60.48c NSPS Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units), the permittee is required to maintain daily records of the amount of natural gas combusted. Since none of the emission limits in Subpart Dc are applicable to this boiler when firing natural gas (the primary fuel for this boiler), it has been determined by the Department that keeping records for natural gas usage on a monthly rather than daily basis is adequate for the purpose of verifying the periods that only natural gas is burned in this unit. [Rule 62-296.810, F.A.C.; 40 CFR 60.48c(g) and (i)]
10. The permittee shall maintain a (daily) record of the quantity of fuel oil used for each day of operation. [Rule 62-204.800(7)(b)4., F.A.C.; 40 CFR 60.48c(g) and 40 CFR 60.48c(i)]
11. The permittee shall submit the following written notifications to the Air Compliance Section of the Southwest District Office of the Department:
 - a. A notification of the date construction (or reconstruction as defined under 60.15) of the boiler is commenced, postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.
 - b. A notification of the anticipated date of initial startup of the boiler, postmarked not more than 60 days nor less than 30 days prior to such date.
 - c. A notification of the actual date of initial startup of the boiler, postmarked within 15 days after such date.
 - d. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 60.14 (e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [Rule 62-204.800(7)(b)4., F.A.C.; 40 CFR 60.7(a) and 40 CFR 60.48c(a)]

AIR CONSTRUCTION PERMIT

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

12. The permittee shall submit quarterly reports of the fuel oil supplier sulfur content certification records required by Condition 10 for any calendar quarter during which fuel oil is fired. In addition to the above, the quarterly report shall include a certified statement signed by the owner or operator of the facility that the records of the fuel supplier certifications submitted represent all of the fuel combusted during the quarter. The quarterly reports shall be submitted to the Air Compliance Section of the Southwest District Office of the Department within 30 days of the end of the quarter being reported. [Rule 62-204.800(7)(b)4., F.A.C.; 40 CFR 60.48c(e)(11)]

TECHNICAL EVALUATION AND FINAL DETERMINATION

1 APPLICANT NAME AND ADDRESS

Citrosuco North America, Inc.
5937 Highway 60, East
P.O. Box 3950
Lake Wales, Florida 33859-3950

Authorized Representative: Nick Emanuel, C.O.O.

2 FACILITY DESCRIPTION, PROJECT DETAILS AND RULE APPLICABILITY

The facility is an existing citrus juice processing facility. The project is an air construction permit for a replacement to the existing 800 horsepower Johnson Super 509, high efficiency boiler. This boiler, Emissions Unit I.D. -001, had a design rating of 27,000 pounds per hour steam and a design heat input rate of 31.0 MMBtu per hour. The applicant states that the replacement 2,000 horsepower Johnson boiler will use the same fuel (natural gas primary fuel with 0.5 % sulfur, by weight, No. 4 fuel oil standby fuel) and has a design heat input rate of 84.35 MMBtu per hour. The applicant did not seek any relaxation in currently enforceable conditions for its other existing emissions units.

The emissions unit addressed by this permit is a new 2,000 Horsepower Johnson Boiler #1A, Emissions Unit I.D. -013.

The emissions increases associated with this project were estimated as follows in tons per year. Contemporaneous emissions decreases from the existing boiler were assumed in this estimate.

Pollutant	Net Increase ¹	PSD Significance	Subject to PSD?
PM/ PM ₁₀	NONE	25/15	No
SO ₂	NONE	40	No
NOx	NONE	40	No
CO	NONE	100	No
VOC	NONE	40	No

¹ Potential emissions (shown as net increase) were estimated by the Department from allowable natural gas and fuel oil usage and AP-42 emission factors (tables 1.3-1 and 1.3-3 for fuel oil, tables 1.4-1 and 1.4-2 for natural gas). Since there will be no increase in the maximum allowable fuel use, total natural gas usage of 577.5 MMcf and total No. 4 oil usage of 237,600 gallons, the Department estimates that there will be no increase in annual emissions.

The proposed project is subject to preconstruction review requirements under the provisions of Chapter 403, F.S., and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The existing facility is located in an area designated, in accordance with Rule 62-204.340, F.A.C., as attainment or unclassifiable for the criteria pollutants ozone, PM₁₀, carbon monoxide, SO₂, nitrogen dioxide and lead. This facility is classified as a Major or Title V Source of air pollution because emissions, of at least one regulated air pollutant, exceeds 100 tons per year (TPY). The Department has previously found that citrus juice processing facilities such as this facility have potential emissions of VOC exceeding 250 TPY.

This facility is not within an industry included in the list of the 28 Major Facility Categories per Table 212.400-1 of Chapter 62-212, F.A.C. Because emissions are greater than 250 TPY for at least one criteria pollutant (VOC), the facility is also an existing Major Facility with respect to Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD). The net increase in emissions of PM/PM₁₀, NOx, SO₂, CO and VOC do not exceed the PSD significance levels of Table 212.400-2 of Chapter 62-212, F.A.C. Therefore the project is not subject to PSD requirements of Rule 62-212.400, F.A.C., for these pollutants.

The new process steam boiler is subject to regulation under the New Source Performance Standards of 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam

Generating Units. This emissions unit is also subject to a determination of Best Available Control Technology (BACT) pursuant to Rule 62-296.406, F.A.C. The applicant requested that BACT be determined to be the use of natural gas and 0.5%, by weight, sulfur No. 4 fuel oil. BACT for small boilers is typically the use of natural gas and low, by weight, sulfur fuel oil, so the applicant's request is consistent with the Department's previous BACT determinations. The Department's determination for this project is that BACT shall be the use of natural gas as the primary fuel, with low sulfur (0.5% by weight) No. 4 fuel oil allowed as a backup fuel. Fuel oil use will be further limited to not exceed 240 hours per year.

The rationale for the Department's BACT determination is that sulfur in fuel is a primary air pollution concern, since most of the fuel sulfur becomes sulfur dioxide, and particulate matter emissions from fuel burning are related to the sulfur content. Reducing the allowable sulfur content of the fuels burned will reduce the emissions of sulfur dioxide and particulate matter. Natural gas has the lowest sulfur content of the typically available fuels. Burning of natural gas results in relatively lower emissions of other criteria pollutants, as compared with firing fuel oil, with the exception of nitrogen oxides which are higher. Thus, for the majority of pollutants, including particulate matter and sulfur dioxide, the use of natural gas is the best alternative. Fuel oil is permitted as a backup fuel, although its use is limited because of its higher sulfur content.

The applicant stated that this facility is not a major source of hazardous air pollutants (HAPs). This project is not subject to a case-by-case MACT determination, per Rule 62-204.800(10)(d)2, F.A.C., because it does not result in the construction or reconstruction of a major source of HAP emissions. This project is not subject to any requirements under the National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61 or 63.

3 SOURCE IMPACT ANALYSIS

An impact analysis was not required for this project because it is not subject to the requirements of PSD.

4 EXCESS EMISSIONS

Excess emissions for this emissions unit are specified in Section II of the permit. This permitting action does not change any authorization for excess emissions provided by other Department permits for other emissions units.

5 LIMITS AND COMPLIANCE REQUIREMENTS

The permit limits the sulfur content of the distillate fuel oil and limits the heat input to the emissions units from all permitted fuels. Specific emission limits were not imposed because the potential emissions are well below the PSD significance criteria. The fuel consumption limits and the compliance requirements are detailed in Section III of the permit.

6 PRELIMINARY DETERMINATION

Based on the foregoing technical evaluation of the application and additional information submitted by the applicant and other available information, the Department has made a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations. The Department's preliminary determination is to issue the draft permit to allow the replacement of process steam boiler No. 1 (Emissions Unit I.D.-001) with a new 2,000 horsepower boiler (Emissions Unit I.D.-013), subject to the terms and conditions of the draft permit.

7 FINAL DETERMINATION

An "INTENT TO ISSUE AIR CONSTRUCTION PERMIT" to Citrosuco North America for their existing citrus juice processing plant located at 5937 Highway 60, East, Lake Wales, Polk County was clerked on March 2, 2004. The "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT" was published in the Winter Haven News Chief on March 12, 2004. The Draft Air Construction Permit was available for public inspection at the Southwest District office in Tampa and the permitting authority's office in Tallahassee. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT" was received on March 18, 2004.

No comments were received during the fourteen (14) day public comment period. As a result, the Final Air Construction permit will be issued, as noticed.

DETAILS OF THIS ANALYSIS MAY BE OBTAINED BY CONTACTING:

Edward J. Svec, Engineer IV
Department of Environmental Protection
Bureau of Air Regulation
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Telephone: 850/488-0114

APPENDIX GC
GENERAL PERMIT CONDITIONS [RULE 62-4.160, F.A.C.]

- G.1 The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- G.2 This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- G.3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- G.4 This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- G.5 This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- G.6 The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- G.7 The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
- (a) Have access to and copy and records that must be kept under the conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
- Reasonable time may depend on the nature of the concern being investigated.
- G.8 If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- (a) A description of and cause of non-compliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

APPENDIX GC
GENERAL PERMIT CONDITIONS [RULE 62-4.160, F.A.C.]

- G.9 In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- G.10 The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.
- G.13 This permit also constitutes:
- (a) Determination of Best Available Control Technology (X);
 - (b) Determination of Prevention of Significant Deterioration (); and
 - (c) Compliance with New Source Performance Standards ().
- G.14 The permittee shall comply with the following:
- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - (c) Records of monitoring information shall include:
 - 1. The date, exact place, and time of sampling or measurements;
 - 2. The person responsible for performing the sampling or measurements;
 - 3. The dates analyses were performed;
 - 4. The person responsible for performing the analyses;
 - 5. The analytical techniques or methods used; and
 - 6. The results of such analyses.
- G.15 When requested by the Department, the permittee shall within a reasonable time furnish any information, required by law, which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.