Citrus World, Inc.
dba Florida's Natural Growers, Inc.
Facility ID No.: 1050002
Polk County

Title V Air Operation Permit Revision

DRAFT/PROPOSED Permit No. 1050002-008-AV
Revision of Title V Air Operation Permit No. 1050002-007-AV

Revisions are presented in this draft/proposed permit in shaded/~~strikethrough~~ format with shaded areas indicating the additions and ~~strikethrough~~ indicating deletions from the previous permit. The final permit will not use the shaded/~~strikethrough~~ format.

Permitting and Compliance Authority:

State of Florida
Department of Environmental Protection
Air Resource Management, Southwest District

13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813/632-7600
Fax: 813/632-7668

Title V Air Operation Permit Revision

Permit No. 1050002-008-AV

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- Table 2, Compliance Requirements
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DRAFT/PROPOSED PERMIT

PERMITTEE:
Citrus World, Inc.
20205 US Highway 27 North
Lake Wales, FL 33853

Permit No. 1050002-008-AV
Florida's Natural Growers, Inc.
Facility ID No. 1050002
Title V Air Operation Permit Revision

The purpose of this permit is to revise the Title V air operation permit for the above referenced facility. Citrus World, Inc., dba Florida's Natural Growers, Inc., is located in Polk County at 20205 US Highway 27 N., Lake Wales, Florida. UTM Coordinates are: Zone 17, , 441.0 km and 3087.3 km North. Latitude is: 27° 54' 41" North; and, Longitude is: 81° 36' 02" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: *Date, 2012*
Renewal Application Due Date: 09/05/2015
Expiration Date: 04/17/2016

(Draft/Proposed)

_____
Robert C. Wong
District Air Program Administrator
Southwest District

RCW/nek

Subsection A. Facility Description.

This is a juice processing facility with three citrus peel dryers with waste heat evaporators, two counterflow pellet coolers, three Erie City Keystone Boilers, two natural gas fired gas turbines, one natural gas fired waste heat boiler, and multiple stationary engines.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Citrus Peel Dryer with Waste Heat Evaporator #2
003	Boiler No. 3
004	Boiler No. 2
007	Citrus Peel Dryer with Waste Heat Evaporator #1
011	Waste Heat Boiler with duct burner (linked to Gas Turbine No. 1 (EU 012))
012	Natural Gas Turbine No. 1 (Combined Cycle) (linked to Waste Heat Boiler with duct burner (EU 011))
013	Citrus Peel Dryer with Waste Heat Evaporator #3
017	Boiler No. 1
022	Pellet Cooler CF1
023	Pellet Cooler CF2
027	Natural Gas Turbine No. 2 (Combined Cycle)
031	"New" Emergency Back-up Generator Stationary Compression Ignition (CI) RICE Diesel Engine
032	Four (4) Existing Emergency Stationary Compression Ignition (CI) RICE Diesel Engines ≤ 500 HP
033	Two (2) Existing Emergency Stationary Compression Ignition (CI) RICE Diesel Engines > 500 HP
~~034~~	~~Existing Non-Emergency Stationary Compression Ignition (CI) RICE Diesel Engine ≤ 300 HP~~
~~035~~	~~"New" Stationary Spark Ignition (SI) RICE Engines~~
~~036~~	~~Existing Stationary Spark Ignition (SI) RICE Engines~~

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received August 24, 2010, this facility is not a major source of hazardous air pollutants (HAP). Because this facility operates stationary reciprocating internal combustion engines, it is subject to regulation under 40 CFR 63, Subpart ZZZZ, - National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines. The existing facility is a PSD major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table.

Regulation	**EU No(s).**
40 CFR 60, Subpart A, NSPS General Provisions	011, 012, 027, 031, ~~035~~
40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines	012 and 027
40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	011
40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	031
~~40 CFR 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines~~	~~035~~
40 CFR 63, Subpart A, NESHAP General Provisions	032~~,~~ and 033~~, 034, 036~~
40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines	032~~,~~ and 033~~, 034, 036~~
Rule 62-296.406 F.A.C., Fossil Fuel Steam Generators with Less Than 250 Million Btu Per Hour Heat Input, New and Existing Emissions Units	003, 004, 011, 017
Best Available Control Technology (BACT) requirements from the Technical Evaluation and Final Determination for Construction Permit 1050002-005-AC	003, 004, 011, 017
Chapters 62-4, 62-210, 62-213, 62-296, 62-297, F.A.C.	All

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices - The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated.
[Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally Enforceable - Objectionable Odor Prohibited. - No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.
[Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions - The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department.
[Rule 62-296.320(1), F.A.C.]

Permitting Note: Nothing is deemed necessary and ordered at this time.

FW4. General Visible Emissions - No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement.
[Rule 62-296.320(4)(b)1, F.A.C.]

FW5. Unconfined Particulate Matter - No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a. Paving and maintenance of roads, parking area, and yards or the application of water to paved and unpaved roads, parking areas, and yards to control emissions.

b. The use of sprinklers on stock piles if necessary.

c. Removal of particulate matter from roads and other paved areas under the control of the owner of operator of the facility to prevent the reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.

d. Landscaping or planting of vegetation.

[Rule 62-296.320(4)(c), F.A.C.]

Permitting Note: These precautions were proposed by applicant in application received August 24, 2010.

FW6. Fruit Throughput Limit - The owner or operator shall not process more than 30.0 million boxes of citrus fruit in any consecutive 12 month period. For purposes of this permit, a box of citrus fruit shall be defined to contain 90 pounds of oranges or 85 pounds of grapefruit. The owner or operator shall make and maintain monthly and rolling 12 month records of fruit processing rates to demonstrate compliance with this limitation. Such records shall be made from daily processing records and shall be completed no later than the 10th day of each following month.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

FW7. VOC Emission Limits and Oil Recovery - VOC emissions will be limited by achieving by a 65 percent recovery of oil from citrus fruits processed each calendar year. Compliance with the emission limit for VOC shall be demonstrated by calculating the compliance indicator, as follows. All measured quantities of oil used in Equations 1 and 2 shall be in units of tons and the total results of the selected equation shall reflect the sum total for the entire calendar year.

a. The facility may use either Equation 1 or 2 to demonstrate compliance, provided that the facility has maintained the necessary records to use that equation. In the case of Equation 2, all recovered oil must be actually measured and all emitted volatilized oil must be treated as emissions and not as reductions of peel oil. If the result of selected equation is positive or zero, the facility is in compliance with the VOC emission limit. If the result of the selected equation is negative, the facility is in violation of the VOC emission limit. The facility may use either equation to demonstrate compliance, even if the other equation results in a negative compliance indicator.

b. Facilities may accept wet peel from, or send wet peel to another facility for further processing and drying, provided that each facility involved receives or provides, respectively, sufficient recorded information to account for the recovery of oil from such peel, including oil in products and by-products at the receiving facility. A facility that sends wet peel offsite for any purpose shall not include the related oil in products and by-products in its oil recovery calculations. Such oil shall be included in the oil recovery calculations of the receiving facility. In any case, oil in products and by-products related to peel that is not processed through a peel dryer shall be excluded from all oil recovery calculations.

   Equation 1:

   Compliance Indicator = OIF(1 – K1) – OPP + ODP
   Equation 2:

   Compliance Indicator = OJ + CPO + EO + DL + ODP – K1(OIF)

   Where:
   K1 = 0.65.
   And the following are all in units of tons:
   OIF = Oil in Incoming Fruit
   ODP = Oil in Dried Pellets
   OPP = Oil in Pressed Peel
   OJ = Oil in Juice
   CPO = Cold Press Oil
   EO = Essence Oil
   DL = d-limonene

   Fruit and byproduct oil quantities, required for equations 1 and 2, as applicable, shall be measured daily. All peel oil recovery at a facility shall be determined using the same methodology at all times during each processing year. The following sampling and analytical methods shall be used for determining oil contents of fruit, pressed peel, dried peel and pellets: The sampling and analytical method for determining oil content in incoming whole fruit is the method documented in "FMC FoodTech Citrus Systems Division, Procedures for Analysis of Citrus Products, Chapter VI, Procedure 1. Whole Fruit Available Oil, FMC Technologies Inc.,

Lakeland, FL, pp. 119 to 123, (effective August 16, 2002)" hereby adopted by reference; the analytical method for determining oil content is the Scott Method (Bromate Titration Method) as documented in "FMC FoodTech Citrus Systems Division, Procedures for Analysis of Citrus Products, Chapter IV, Procedure 10. Recoverable Oil (Scott Method), FMC Technologies Inc., Lakeland, FL, pp. 40 to 44, (effective August 16, 2002)" hereby adopted by reference; the methods for sampling, sample preparation and analytical calculations for peel residue, press cake, and pellets are those documented in "Braddock, R. J. (1999), Handbook of Citrus By-Products and Processing Technology, Section 12.3.1.2 Analysis, John Wiley & Sons, NY, pp. 180 to 181," hereby adopted by reference. Copies of these documents may be obtained by contacting the Division of Air Resource Management at 2600 Blair Stone Road, Mail Station 5500, Tallahassee, FL 32399-2400.
[Rule 62-4.070(3), F.A.C. and Construction Permit 1050002-005-AC]

FW8. Records Retention - All recorded data shall be maintained at the facility by the permittee for a period of five years made available to the Department upon request.
[Rule 62-213.440, F.A.C.]

FW9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]

Annual Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details

FW10. Annual Operating Report - The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year.
[Rule 62-210.370(3), F.A.C.]

FW11. Annual Emissions Fee Form and Fee - The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm.
[Rule 62-213.205, F.A.C.]

FW12. Annual Statement of Compliance - The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective.
[Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

FW13. Prevention of Accidental Releases (Section 112(r) of CAA)

a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center.
b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Department of Community Affairs (DCA), as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.

c. The owner or operator shall submit the required annual registration fee to the DCA on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 9G-21, F.A.C.

d. Any required written reports, notifications, certifications, and data required to be sent to the DCA, should be sent to: Department of Community Affairs, Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2100, Telephone: (850) 413-9921, Fax: (850) 488-1739.

e. Any Risk Management Plans, original submittals, revisions, or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

f. Any required reports to be sent to the National Response Center, should be sent to: National Response Center, EPA Office of Solid Waste and Emergency Response, USEPA (5305 W), 401 M Street SW, Washington, D.C. 20460, Telephone: (800) 424-8802.

g. Send the required annual registration fee using approved forms made payable to: Cashier, Department of Community Affairs, State Emergency Response Commission, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2149

[Part IV, Chapter 252, F.S.; and, Rule 9G-21, F.A.C.]

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
-001	Citrus Peel Dryer No. 2 has a maximum process input rate of 80.0 tons per hour of pressed peel and lime, with a maximum product output rate of 26.0 tons/hour of dried peel. The peel dryer is fired at a maximum heat input rate of 100 MMBtu/hour with natural gas or No. 2 fuel oil with a maximum sulfur content of 0.10% S by weight. The exhaust gas from the peel dryer is sent to a 120,000 pound/hour (water removal capacity) waste heat evaporator which functions as an indirect heat exchanger to drive moisture from the press liquor (from the peel press), and also acts as a particulate scrubber control device.
-007	Citrus Peel Dryer No. 1 has a maximum process input rate of 40.0 tons per hour of pressed peel and lime, with a maximum product output rate of 13.0 tons/hour of dried peel. The peel dryer is fired at a maximum heat input rate of 50 MMBtu/hour with natural gas or No. 2 fuel oil with a maximum sulfur content of 0.10% S by weight. The exhaust gas from the peel dryer is sent to a 50,000 pound/hour (water removal capacity) waste heat evaporator which functions as an indirect heat exchanger to drive moisture from the press liquor (from the peel press), and also acts as a particulate scrubber control device.
-013	Citrus Peel Dryer No. 3 has a maximum process input rate of 80.0 tons per hour of pressed peel and lime, with a maximum product output rate of 26.0 tons/hour of dried peel. The peel dryer is fired at a maximum heat input rate of 100 MMBtu/hour with natural gas or No. 2 fuel oil with a maximum sulfur content of 0.10% S by weight. The exhaust gas from the peel dryer is sent to a 100,000 pound/hour (water removal capacity) waste heat evaporator which functions as an indirect heat exchanger to drive moisture from the press liquor (from the peel press), and also acts as a particulate scrubber control device.

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity - The maximum allowable heat input rate is as follows:

Emission Unit	Maximum Heat Input (MMBTU/hr)
001 – Citrus Peel Dryer No.2	100.0
007 - Citrus Peel Dryer No.1	50.0
013 - Citrus Peel Dryer No.3	100.0

[Rules 62-4.160(2), 62-213.440(1), F.A.C.; Construction Permit 1050002-005-AC]

A.2. Methods of Operation - The fuels that are allowed to be burned in these units are:

a. Natural gas; and

b. No. 2 fuel oil with a maximum of 0.10% sulfur by weight.

[Rule 62-4.070(3) F.A.C.; Construction Permit 1050002-005-AC]

A.3. Emissions Unit Operating Rate Limitation After Testing - See the related testing provisions in Appendix TR, Facility-wide Testing Requirements.
[Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Unless otherwise specified, the averaging times for Specific Conditions A.4. and A.6. are based on the specified averaging time of the applicable test method.

A.4. Visible Emissions - Visible emissions shall not exceed 20 percent opacity.
[Rule 62-296.320(4)(b)1., F.A.C.; Construction Permit 1050002-005-AC]

A.5. Sulfur Dioxide Emissions - Sulfur dioxide shall be limited by firing either natural gas or No. 2 distillate fuel oil with a maximum 0.10 percent sulfur, by weight. Measurement of the sulfur content of fuel oil shall be by latest American Society for Testing and Materials methods suitable for determining sulfur content. Sulfur dioxide emissions shall be determined by material balance using the sulfur content and amount of the fuel or fuels fired in each emission source, assuming that for each pound of sulfur in the fuel fired, 2 pounds of sulfur dioxide are emitted.
[Rule 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit 1050002-005-AC]

A.6. Particulate Matter Emissions - PM/PM_{10} emissions from each peel dryer shall not exceed 15.0 pounds per hour.
[Rule 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit 1050002-005-AC]

Excess Emissions

A.7. Excess Emissions Allowed - Excess emissions resulting from startup, shutdown or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.
[Rule 62-210.700(1), F.A.C.]

A.8. Excess Emissions Prohibited - 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 startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

A.9. Test Methods - Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rules 62-204.800 and 62-297.401, F.A.C.; Appendix A of 40 CFR 60]

A.10. Common Testing Requirements - Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

A.11. Annual Compliance Tests Required - During each federal fiscal year (October 1st to September 30th), each peel dryer shall be tested to demonstrate compliance with the emissions standards for visible emissions.
[Rule 62-297.310(7), F.A.C.]

A.12. Compliance Tests Prior To Renewal - Compliance tests shall be performed for PM/PM_{10} between 365 and 270 days before the expiration date of this permit to demonstrate compliance with the emission limits in Specific Condition A.6.
[Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.; Construction Permit 1050002-005-AC]

A.13. Additional Testing Requirements - Compliance testing of the peel dryers shall be conducted when firing No. 2 fuel oil if fuel oil has been used in the peel dryers for more than 400 hours for the previous 12 months, or if it is expected to be used in the peel dryers for more than 400 hours during the next 12 months. If the test is conducted while firing natural gas and in the 12 month period following the test No. 2 fuel oil is burned for more than 400 hours, then an additional VE test (while burning No. 2 fuel oil) shall be conducted within 30 days of having passed the 400 hour fuel oil burning level.
[Rule 62-297.310(7)(a), F.A.C.]

Recordkeeping and Reporting Requirements

A.14. Other Reporting Requirements - See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

A.15. Fuel Oil Sulfur Content - In order to document continuing compliance with Condition A.2, records shall be maintained of the sulfur content, in % by weight, of all No. 2 fuel oil delivered for use in the peel dryers.
[Rule 62-213.440(1), F.A.C.]

A.16. Excess Emissions Reporting - In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

A.17. Heat Input Rate - In order to provide information to document compliance with the fuel heat input rate limitations of Specific Condition A.1., the permittee shall monitor and maintain daily logs of the amount of each fuel used and the hours of operation.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

Other Requirements

A.18. Best Management Practices for Carbon Monoxide - This facility shall operate its citrus peel dryers in accordance with the manufacturer's operating manual, or recommended operating practices provided by the manufacturer, equipment vendor, or a professional engineer registered in Florida, as well as with the practices described in this paragraph. Each facility shall report to the Department any failure to follow these practices, and shall make such report in writing within 7 days from discovery of such failure. Records and copies of reports shall be maintained on site for a period of five years and shall be made available to the Department upon request. Best Management Practices shall include:

a. Train dryer operators to perform the operating practices of this paragraph using the manuals and plans described, and allow only trained employees to operate dryers;

b. Maintain a written plan with operating procedures for startup, shutdown and malfunction of the equipment, and follow that plan during these events;

c. Operate and maintain the burner and burner controls to maintain a proper air to fuel ratio;

d. Visually check the flame characteristics once per operating shift;

e. Monitor the moisture content of the dried peel exiting the dryer on a daily basis, and maintain that moisture content greater than six percent by weight at all times during operation;

f. Make burner and burner control adjustments on an annual basis, or more frequently as required by visual checks;

g. Perform an inspection of combustion equipment as prescribed by the equipment manufacturer or registered professional engineer, but no less often than annually, and replace parts that are worn or improperly operating;

h. Keep records of combustion operations that document the operating practices described in this paragraph, such documentation shall include a manual, which can be the manufacturer's operation manual, and daily logs; and

i. Document maintenance performed on equipment, and all normal processing equipment and operating practices changes.

[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
-017	Boiler No. 1 is an 875 horsepower boiler manufactured by Erie City Keystone. The boiler is fueled with natural gas or No. 2 distillate fuel oil with a maximum of 0.10 percent sulfur, by weight. It has a maximum heat input rate of 36.0 MMBtu per hour and began operation in 1973.
-004	Boiler No. 2 is a 2,000 horsepower boiler manufactured by Erie City Keystone. The boiler is fueled with natural gas or No. 2 distillate fuel oil with a maximum of 0.10 percent sulfur, by weight. It has a maximum heat input rate of 86.0 MMBtu per hour and began operation in 1970.
-003	Boiler No. 3 is a 2,000 horsepower boiler manufactured by Erie City Keystone. The boiler is fueled with natural gas or No. 2 distillate fuel oil with a maximum of 0.10 percent sulfur, by weight. It has a maximum heat input rate of 85.0 MMBtu per hour and began operation in 1967.

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity - The maximum allowable heat input rate is as follows:

Emission Unit	Maximum Heat Input (MMBTU/hr)
EU 017 - Boiler No. 1	36.0 MMBtu/hr
EU 004 - Boiler No. 2	86.0 MMBtu/hr
EU 003 - Boiler No. 3	85.0 MMBtu/hr

[Rules 62-4.160(2), 62-204.800, 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit 1050002-005-AC]

B.2. Methods of Operation - The fuels that are allowed to be burned in these units are:

a. Natural gas; and

b. No. 2 fuel oil with a maximum of 0.10% sulfur by weight.

[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC.]

B.3. Hours of Operation - These emissions units may operate continuously (8,760 hours/year).
[Rule 62-210.200 ("Potential to Emit"), F.A.C., Construction Permit 1050002-005-AC]

B.4. Emissions Unit Operating Rate Limitation After Testing - See the related testing provisions in Appendix TR, Facility-wide Testing Requirements.
[Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Unless otherwise specified, the averaging time for Specific Condition B.5. is based on the specified averaging time of the applicable test method.

B.5. Visible Emissions - Visible emissions shall not exceed 20 percent opacity except for one six-minute period per hour during which opacity shall not exceed 27 percent.
[Rule 62-296.406(1), F.A.C.; Construction Permit 1050002-005-AC]

B.6. Sulfur Dioxide - Sulfur dioxide shall be limited by firing either natural gas or No. 2 distillate fuel oil with a maximum 0.10 percent sulfur, by weight. Measurement of the sulfur content of fuel oil shall be by latest American Society for Testing and Materials methods suitable for determining sulfur content. Sulfur dioxide emissions shall be determined by material balance using the sulfur content and amount of the fuel or fuels fired in each emission source, assuming that for each pound of sulfur in the fuel fired, 2 pounds of sulfur dioxide are emitted.
[Rule 62-296.406(2), F.A.C.; Construction Permit 1050002-005-AC]

B.7. PM Emissions - Particulate matter shall be limited by firing either natural gas or No. 2 distillate fuel oil with a maximum 0.10 percent sulfur, by weight.
[Rule 62-296.406(2), F.A.C.; Construction Permit 1050002-005-AC]

Excess Emissions

B.8. Excess Emissions Allowed - Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.
[Rule 62-210.700(1), F.A.C.]

B.9. Excess Emissions Allowed - Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.
[Rule 62-210.700(2), F.A.C.]

B.10. Excess Emissions Prohibited - 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 startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

B.11. Test Methods - Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rule-297.401, F.A.C.]

B.12. Common Testing Requirements - Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

B.13. Visible Emissions - During each federal fiscal year (October 1st to September 30th), each boiler shall be tested to demonstrate compliance with the emissions standards for visible emissions.
[Rule 62-297.310(7), F.A.C.]

B.14. Additional Testing Requirements - Compliance testing of the boilers shall be conducted when firing No. 2 fuel oil if fuel oil has been used in the boilers for more than 400 hours for the previous 12 months, or if it is expected to be used in the boilers for more than 400 hours during the next 12 months. If the test is conducted while firing natural gas and in the 12 month period following the test No. 2 fuel oil is burned for more than 400 hours, then an additional VE test (while burning No. 2 oil) shall be conducted within 30 days of having passed the 400 hour fuel oil burning level.
[Rule 62-297.310(7)(a), F.A.C.]

Recordkeeping and Reporting Requirements

B.15. Other Reporting Requirements - See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

B.16. Fuel Sulfur Content Records - In order to document continuing compliance with Condition B.2, records shall be maintained of the sulfur content, in % by weight, of all No. 2 fuel oil delivered for use in the boilers.
[Rule 62-213.440(1), F.A.C.]

B.17. Heat Input Rate - In order to provide information to document compliance with the fuel heat input rate limitations of Specific Condition B.1., the permittee shall monitor and maintain daily record logs of the amount of each fuel used and the hours of operation.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

B.18. Excess Emissions Reporting - In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

Other Requirements

B.19. Best Management Practices for Carbon Monoxide **-** This facility shall operate its boilers in accordance with the manufacturer's operating manual, or recommended operating practices provided by the manufacturer, equipment vendor, or a professional engineer registered in Florida, as well as with the practices described in this paragraph. Each facility shall report to the Department any failure to follow these practices, and shall make such report in writing within 7 days from discovery of such failure. Records and copies of reports shall be maintained on site for a period of five years and shall be made available to the Department upon request. The facility shall:

a. Train boiler operators to perform the operating practices of this paragraph using the manuals and plans described, and allow only trained employees to operate boilers;

b. Maintain a written plan with operating procedures for startup, shutdown and malfunction of the equipment, and follow that plan during these events;

c. Operate and maintain the burner and burner controls to maintain a proper air to fuel ratio;

d. Visually check the flame characteristics once per operating shift;

e. Make burner and burner control adjustments on an annual basis, or more frequently as required by visual checks;

f. Perform an inspection of combustion equipment as prescribed by the equipment manufacturer or registered professional engineer, but no less often than annually, and replace parts that are worn or improperly operating;

g. Keep records of combustion operations that document the operating practices described in this paragraph, such documentation shall include a manual, which can be the manufacturer's operation manual, and daily logs; and

h. Document maintenance performed on equipment, and all normal processing equipment and operating practices changes.

[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
-011	This boiler recovers heat from the exhaust gas stream of EU 012 - Gas Turbine No. 1 and utilizes a supplemental natural gas duct burner with a maximum heat input rate of 91 MMBtu per hour, and has a maximum steam production capacity of 110,000 pounds per hour at 240 psig. This emissions unit is physically linked to emissions unit EU 012 (see Section III, Subsection D, of this permit). The boiler was placed into service January 20, 1994.

Essential Potential to Emit (PTE) Parameters

C.1. Permitted Capacity - The maximum allowable heat input rate is as follows:

Emission Unit	Maximum Heat Input (MMBTU/hr)
011-Waste Heat Boiler	91

[Rules 62-4.160(2), 62-204.800, 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit 1050002-005-AC.]

C.2. Methods of Operation - Only natural gas shall be fired in this unit.
[Rule 62-213.410, F.A.C.; Construction Permit 1050002-005-AC.]

C.3. Hours of Operation - This emission unit may operate continuously (8,760 hours/year).
[Rule 62-210.200 ("Potential to Emit") F.A.C.]

C.4. Emissions Unit Operating Rate Limitation After Testing - See the related testing provisions in Appendix TR, Facility-wide Testing Requirements.
[Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Unless otherwise specified, the averaging time for Specific Condition C.5. is based on the specified averaging time of the applicable test method.

C.5. Visible Emissions - Visible emissions shall not exceed 20 percent opacity except for one six-minute period per hour during which opacity shall not exceed 27 percent.
[Rule 62-296.406(1), F.A.C.; Construction Permit 1050002-005-AC]

C.6. Sulfur Dioxide - Sulfur dioxide shall be limited by firing natural gas.
[Rule 62-296.406(2), F.A.C.; Construction Permit 1050002-005-AC]

C.7. Particulate Matter - Particulate matter shall be limited by firing natural gas.
[Rule 62-296.406(2), F.A.C.; Construction Permit 1050002-005-AC]

Excess Emissions

C.8. Excess Emissions Allowed. - Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.
[Rule 62-210.700(1), F.A.C.]

C.9. Excess Emissions Allowed - Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.
[Rule 62-210.700(2), F.A.C.]

C.10. Excess Emissions Prohibited - 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 startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

C.11. Test Methods - Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rules 62-310(4) and 62-297.401, F.A.C.]

C.12. Common Testing Requirements - Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

C.13. Visible Emissions - During each federal fiscal year (October 1st to September 30th), this emissions unit shall be tested to demonstrate compliance with the emissions standards for visible emissions.
[Rule 62-297.310(7), F.A.C.; Construction Permit 1050002-005-AC]

Recordkeeping and Reporting Requirements

C.14. Other Reporting Requirements - See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

C.15. Heat Input Rate – In order to provide information to document compliance with the fuel heat input rate limitations of Specific Condition C.1., the permittee shall monitor and maintain daily record logs of the amount of each fuel used and the hours of operation.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

C.16. Excess Emissions Reporting - In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

Other Requirements

C.17. Best Management Practices for Carbon Monoxide - This facility shall operate its boilers in accordance with the manufacturer's operating manual, or recommended operating practices provided by the manufacturer, equipment vendor, or a professional engineer registered in Florida, as well as with the practices described in this paragraph. Each facility shall report to the Department any failure to follow these practices, and shall make such report in writing within 7 days from discovery of such failure. Records and copies of reports shall be maintained on site for a period of five years and shall be made available to the Department upon request. Each facility shall:

a. Train boiler operators to perform the operating practices of this paragraph using the manuals and plans described, and allow only trained employees to operate boilers;

b. Maintain a written plan with operating procedures for startup, shutdown and malfunction of the equipment, and follow that plan during these events;

c. Operate and maintain the burner and burner controls to maintain a proper air to fuel ratio;

d. Visually check the flame characteristics once per operating shift;

e. Make burner and burner control adjustments on an annual basis, or more frequently as required by visual checks;

f. Perform an inspection of combustion equipment as prescribed by the equipment manufacturer or registered professional engineer, but no less often than annually, and replace parts that are worn or improperly operating;

g. Keep records of combustion operations that document the operating practices described in this paragraph, such documentation shall include a manual, which can be the manufacturer's operation manual, and daily logs; and

h. Document maintenance performed on equipment, and all normal processing equipment and operating practices changes.

[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

C.18. Federal Rule Requirements - In addition to the specific conditions listed above, this emissions unit is also subject to the applicable requirements contained in 40 CFR 60, Subpart A – General Provisions and 40 CFR 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The applicable provisions of Subpart Dc are listed below:

a. Applicability and delegation of authority.
   60.40c(a)

b. Definitions.
   60.41c

c. Reporting and recordkeeping requirements:

   i. The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.
      40 CFR 60.48c(g)

   ii. The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.
      40 CFR 60.48c(j)

Note: The emissions limits in Specific Conditions C.5. – C.7. are at least as stringent as those specified in 40 CFR 60, Subpart Dc.

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
-012	Gas Turbine No. 1 is a Solar Turbines Incorporated Centaur Type H combined cycle natural gas-fired turbine with a peak heat input rating of 51.1 million Btu per hour at approximately 66°F ambient air temperature. The turbine operates without add-on air pollution controls. The actual peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of Peak Heat Input versus Ambient Temperature, not included with this permit. The turbine drives a 3449 kW electric power generator. The combined cycle system utilizes the exhaust gas from the turbine in a waste heat recovery steam boiler, equipped with a duct burner (see Emissions Unit 011, Section III, Subsection C, of this permit).
-027	Gas Turbine No. 2 is a Solar Turbines Inc. Taurus 70-T9701S GCS combined cycle natural gas-fired gas turbine with a heat input rating of 76.0 million Btu per hour at 40°F inlet air temperature. The turbine operates without add-on air pollution controls. The actual peak heat input rate of the turbine is a function of the inlet air temperature as shown on the graph of Peak Heat Input versus Inlet Temperature, not included with this permit. The turbine drives a 7266 kW electric power generator. The combined cycle system utilizes the exhaust gas from the turbine in a waste heat recovery steam boiler (without a duct burner and therefore not an emission source) rated at 31,100 lbs/hour of steam.

Essential Potential to Emit (PTE) Parameters

D.1. Permitted Capacity - The maximum allowable heat input rate and fuel type are as follows:

Emission Unit	Maximum Heat Input (MMBTU/hr)	Fuel Type
012	51.1	Pipeline natural gas
027	76.0	Pipeline natural gas

Manufacturer's curves approved by the Department for the heat input correction to other temperatures may be utilized to establish heat input rates over a range of temperatures for compliance determination.
[Rules 62-4.160(2), 62-210.200 ("Potential to Emit"), 62-213.410, F.A.C.; Construction Permit 1050002-005-AC.]

D.2. Hours of Operation - These emissions units may operate continuously (8,760 hours/year).
[Rule 62-210.200 ("Potential to Emit"), F.A.C., Construction Permit 1050002-005-AC]

D.3. Emissions Unit Operating Rate Limitation After Testing - See the related testing provisions in Appendix TR, Facility-wide Testing Requirements.
[Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Unless otherwise specified, the averaging times for Specific Conditions D.4. and D.5. are based on the specified averaging time of the applicable test method.

D.4. Visible Emissions - Visible emissions shall not exceed 10 percent opacity.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

D.5. Nitrogen Oxides - The maximum allowable NOx emissions shall not exceed the following limits:

Emission Unit - Turbine No.	ppmvd @ 15 % O_2[1]	tons/year[2]
EU 012 - Natural Gas Turbine No. 1	168	96.4
EU 027 - Natural Gas Turbine No. 2	30	39.4

[1] This limitation is at least as stringent as, and therefore satisfies the requirements of the applicable NOx limitation contained in 40 CFR 60 Subpart GG.

[2]Based on operating 8,760 hours per year.

(Permitting Note: Based on the limits above, the equivalent PM emissions are 22.0 lbs/hour for EU 012 and 9.0 lbs/hour for EU 027)

[Rule 62-210.200 ("Potential to Emit"), F.A.C; Construction Permit 1050002-005-AC]

D.6. Sulfur Dioxide – Sulfur dioxide emissions are limited by the combustion of pipeline natural gas.
[Rule 62-210.200("Potential to Emit"), F.A.C; Construction Permit 1050002-005-AC]

Permitting Note: For the purpose of this permit, pipeline natural gas is defined as: natural gas containing no more that 10 grains of sulfur per 100 cubic feet, in accordance with the current FERC Tariff.

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

D.7. Excess Emissions Allowed – Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.
[Rule 62-210.700(1), F.A.C.]

D.8. Excess Emissions Allowed - Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.
[Rule 62-210.700(2), F.A.C.]

D.9. Excess Emissions Prohibited – 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 startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

D.10. Test Methods - Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rules 62-204.800 and 62-297.401, F.A.C.; Appendix A of 40 CFR 60]

D.11. Common Testing Requirements - Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

D.12. Annual Compliance Tests Required - During each federal fiscal year (October 1st to September 30th), each turbine shall be tested to demonstrate compliance with the emissions standards for visible emissions.
[Rule 62-297.310(7), F.A.C.; Construction Permit 1050005-005-AC]

D.13. Compliance Tests Prior To Renewal - Compliance tests shall be performed for NOx between 365-270 days before the expiration date of this permit to demonstrate compliance with the emission limits in Specific Conditions D.5.
[Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.; Construction Permit 1050002-005-AC]

Recordkeeping and Reporting Requirements

D.14. Other Reporting Requirements - See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

D.15. Heat Input Rate - In order to provide information to document compliance with the fuel heat input rate limitations of Specific Condition D.1., the permittee shall monitor and maintain daily record logs of the following:

a. The natural gas fuel consumption for each turbine;

b. the ambient temperature to determine the maximum heat input rating of each turbine; and

c. the operating hours of each turbine.

[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

D.16. Excess Emissions Reporting - In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

Other Requirements

D.17. Federal Rule Requirements - In addition to the specific conditions listed above, these emissions units are also subject to the applicable requirements contained in 40 CFR 60, Subpart A – General Provisions and 40 CFR 60 Subpart GG – Standards of Performance for Stationary Gas Turbines. The applicable provisions of Subpart GG are listed below:

a. Applicability and designation of affected facility.
   60.330

b. Definitions.
   60.331

c. Standard for nitrogen oxides.
   60.332 (a) (2), (3), and (4), (k)

d. Standard for sulfur dioxide.
   60.333

e. Monitoring of operations
   60.334 (c), (h), (i)(2), j(1)(ii), (2)(i)(iii), (4) and (5)

f. Test methods and procedures.
   60.335

Note: The emissions limits in Specific Condition D.5. and D.6. are at least as stringent as those specified in 40 CFR 60, Subpart GG.

Subsection E. EU 022 and 023 – Pellet Coolers

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
-022 -023	Two Technostaal Schouten, Inc., Model No. PCF040, counter flow citrus pellet coolers, designated as CF1 and CF2, are used to cool citrus pellets produced in a citrus processing operation. Emissions from each of the pellet coolers are controlled by a Torit Downflo II Model DFT-36 cartridge style air filtration unit. Each unit has 36 Therm-Tek cartridge filters having 7,200 square feet of filter media surface area and an automatic high pressure air back flushing system.

Essential Potential to Emit (PTE) Parameters

E.1. Hours of Operation - These emissions units are allowed to operate, as necessary, to process 30.0 million boxes of citrus fruit in any consecutive 12 month period.
[Rules 62-4.160(2) and 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit 1050002-005-AC]

Permitting Note: For emission calculations, the hours of operation for these emissions units are estimated not to exceed a total of 6,552 hours per year.

E.2. Permitted Capacity - The capacity of the pellet coolers are determined by the capacity of the operating citrus peel dryers.
[Rules 62-4.160(2) and 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit 1050002-005-AC]

Permitting Note: The pellet cooler inputs are equal to the output of dried peel from the peel dryers.

Emission Limitations and Standards

Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

Unless otherwise specified, the averaging time for Specific Condition E.3. is based on the specified averaging time of the applicable test method.

E.3. Visible Emissions (VE) - Visible emissions shall not exceed 5 percent opacity.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

E.4. Particulate Matter (PM) - Particulate matter emissions from each pellet cooler shall not exceed 5.0 pounds per hour.
[Rule 62-4.070(3), F.A.C.; Construction Permit 1050002-005-AC]

Excess Emissions

E.5. Excess Emissions Allowed – Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.
[Rule 62-210.700(1), F.A.C.]

E.6. Excess Emissions Prohibited – 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 startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.

E.7. Test Methods - Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Determination of Particulate Matter Emissions from Stationary Sources (All PM is assumed to be PM_{10}.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.
[Rules 62-297.310(4) and 62-297.401, F.A.C.]

E.8. Common Testing Requirements - Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.
[Rule 62-297.310, F.A.C.]

E.9. Annual Compliance Tests Required - During each federal fiscal year (October 1st to September 30th), the pellet coolers shall be tested to demonstrate compliance with the emissions standards for visible emissions.
[Rule 62-297.310(7), F.A.C.; Construction Permit 1050005-005-AC]

E.10. Particulate Matter (PM/PM_{10}) Testing – Tests for compliance with the particulate matter emission limit are waived as long as the facility complies with the visible emissions limitation in Specific Condition E.3. If any visible emissions test does not demonstrate compliance with the visible emissions limitation, the emissions unit shall be tested for compliance with the particulate matter emission limit within 30 days after the visible emissions test.
[Chapter 62-297.620 (4) F.A.C.; Construction Permit 1050002-005-AC]

Recordkeeping and Reporting Requirements

E.11. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
-031	"New" Emergency Back-up Diesel Generator (see below)

Manufacturer & Model	HP Rating	Year of Manuf.	Description
CAT C6.6	235	2008	Data Processing

(<u>"New" Engine Note</u> – This engine is considered a "new" stationary reciprocating internal combustion engine (RICE) in accordance with the provisions of NSPS Subpart IIII, 40 CFR 60.4200(a), and NESHAP Subpart ZZZZ, 40 CFR 63.6590(a)(2), based on the date of construction.)

This facility contains one "new" stationary internal combustion emergency back-up generator engine (shown above) that has been exempted from the requirements to obtain an air construction permit because it qualifies for one of the categorical exemptions listed in Rule 62-210.300(3)(a), F.A.C. (specifically, Rule 62-210.300(3)(a)35, F.A.C. (Emergency generators). However, it is included in this permit as regulated emission units because it is subject to federal rule NSPS 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Engines, as adopted and incorporated by reference in Rule 62-204.800(8)(b), F.A.C.

F.1. <u>Applicable Federal 40 CFR 60 NSPS Standard</u> - The engine listed above is currently demonstrating compliance with the emission limitations of the applicable federal rule through the retention of a manufacturer's certification statement. So long as that certification is able to be retained, no additional compliance demonstration is required. At such time as that certification is no longer valid (i.e., due to operation or maintenance practices that are inconsistent with the manufacturer's recommendations, or modification or reconstruction of the engine), the permittee shall begin demonstrating compliance with the applicable standards listed in 40 CFR 60 Subpart IIII (incorporated into this permit in the attached appendices shown below) in a manner that is prescribed by that rule.

Engine(s)	**Applicable NSPS 40 CFR 60 Subpart IIII Appendix**
CAT Model No. C6.6	Appendix NSPS 40 CFR 60 Subpart IIII, Condition Set IIIIG (non-fire pump emergency, less than 10L per cylinder)

[Rule 62-204.800(8), F.A.C.; 40 CFR 60 Subparts A and IIII]

Subsection G. EU 032 –Existing Emergency Diesel Engines ≤ 500 HP

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
-032	Four (4) Existing Emergency Stationary Compression Ignition (CI) RICE Diesel Engines ≤ 500 HP *(see list below)*

Manufacturer & Model	HP Rating	Year of Manuf.	Description
Cummings N855	250	1997	#1 Fire Pump
John Deere 6081 AF001	275	Prior to 06/12/2006	#2 Fire Pump
Detroit 80637416	410	Prior to 06/12/2006	North Office Generator
CAT 3306	250	Prior to 06/12/2006	Well Back-up Pump

(Permitting Note – All of the above engines are exempt from the construction permit requirements of Rule 62-210.300(1), F.A.C., in accordance with the provisions of Rule 62-210.300(3)(a)35.*, F.A.C. (Emergency Generators).)*

(Stationary CI RICE Engine Listing Note – The above listing of stationary CI RICE engines at this facility is based upon additional information received 11/09/10 submitted by Bottorf Associates, Inc., in response to a Department request for additional information.)

IMPORTANT REGULATORY CLASSIFICATIONS - The engines in this emission unit are regulated under NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), as amended in the 08/20/10 Federal Register, as existing stationary Reciprocating Internal Combustion Engines (RICE) at an area source of hazardous air pollutants (HAPs).

Operation Requirements

G.1. Operating Hours - There are no specific limitations on operating hours for the existing stationary engines listed above.

(Permitting Note - See also the previous Permitting Note below the descriptions of these emission units. The maximum actual operating hours of these engines is inherently restricted by the limited purpose for which they are used.)

Applicable Federal Requirements

G.2. Federal 40 CFR 63 NESHAP Subpart ZZZZ Requirements - The existing stationary engines in this section listed above are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)), which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart ZZZZ, as it applies to existing RICE at area sources of hazardous air pollutants (HAP). The applicable requirements for these are shown in the Summary of NESHAP 40 CFR 63 Subpart ZZZZ Applicable Requirements for Existing CI RICE at Area Sources of HAP, attached to this permit, under the category Emergency CI ≤500 HP.
[Rule 62-4.070(3), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

*(Compliance Note – The final compliance date for the applicable Subpart ZZZZ requirements for the existing compression ignition (**CI**) RICE engines at this area source of HAP is 05/03/2013. (40 CFR 63.6595(a)(1).)*

G.3. Federal NESHAP 40 CFR 63 Subpart A General Provisions Requirements - The engines in this section listed above are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart A (General Provisions for 40 CFR 63), as adopted and incorporated by reference in Rules 62-204.800(11)(d), F.A.C., which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart A. The applicable requirements of Subpart A are shown in Table 8 to 40 CFR 63 Subpart ZZZZ.
[Rule 62-208.800(11)(d), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
-033	Two (2) Existing Emergency Stationary Compression Ignition (CI) RICE Diesel Engines > 500 HP *(see list below)*

Manufacturer & Model	HP Rating	Year of Manuf.	Description
CAT 3408B	540	Prior to 06/12/2006	Power Generation Facility Generator
Detroit Diesel 80837416	540	Prior to 06/12/2006	Water Reclamation Facility Backup Generator

(Permitting Note – All of the above engines are exempt from the construction permit requirements of Rule 62-210.300(1), F.A.C., in accordance with the provisions of Rule 62-210.300(3)(a)35 *., F.A.C. (Emergency Generators).)*

(Stationary CI RICE Engine Listing Note – The above listing of stationary CI RICE engines at this facility is based upon additional information received 11/09/10 submitted by Bottorf Associates, Inc., in response to a Department request for additional information.)

IMPORTANT REGULATORY CLASSIFICATIONS - The engines in this emission unit are regulated under NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), as amended in the 08/20/10 Federal Register, as existing stationary Reciprocating Internal Combustion Engines (RICE) at an area source of hazardous air pollutants (HAPs).

Operation Requirements

H.1. Operating Hours - There are no specific limitations on operating hours for the existing stationary engines in this section listed above.

(Permitting Note - See also the previous Permitting Note below the descriptions of these emission units. The maximum actual operating hours of these engines is inherently restricted by the limited purpose for which they are used.)

Applicable Federal Requirements

H.2. Federal 40 CFR 63 NESHAP Subpart ZZZZ Requirements - The existing stationary engines in this section listed above are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)), which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart ZZZZ, as it applies to existing RICE at area sources of hazardous air pollutants (HAP). The applicable requirements for these are shown in the Summary of NESHAP 40 CFR 63 Subpart ZZZZ Applicable Requirements for Existing CI RICE at Area Sources of HAP, attached to this permit, under the category Emergency CI > 500 HP.
[Rule 62-4.070(3), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

*(Compliance Note – The final compliance date for the applicable Subpart ZZZZ requirements for the existing compression ignition (**CI**) RICE engines at this area source of HAP is 05/03/2013. (40 CFR 63.6595(a)(1).)*

H.3. Federal NESHAP 40 CFR 63 Subpart A General Provisions Requirements - The engines in this section listed above are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart A (General Provisions for 40 CFR 63), as adopted and incorporated by reference in Rules 62-204.800(11)(d), F.A.C., which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart A. The applicable requirements of Subpart A are shown in Table 8 to 40 CFR 63 Subpart ZZZZ.
[Rule 62-208.800(11)(d), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]

~~**Subsection I. This section addresses the following emissions unit (EU).**~~

~~**EU No.**~~	~~**Brief Description**~~
~~034~~	~~Existing Non-Emergency Stationary CI Diesel Engine ≤ 300 HP *(listed below):*~~

~~Manufacturer & Model~~	~~HP Rating~~	~~Year of Manuf.~~	~~Description~~
~~Continental (Model unknown)~~	~~59.5~~	~~1995~~	~~Diesel Pump (4")~~

~~*(Permitting Note – The above engine is exempt from the construction permit requirements of Rule 62-210.300(1), F.A.C., in accordance with the provisions of Rule 62-210.300(3)(b)1., F.A.C. (Generic Emissions Unit or Activity Exemption).)*~~

~~*(Stationary CI RICE Engine Listing Note – The above listing of stationary CI RICE engine at this facility is based upon additional information dated 12/21/10 submitted by Citrus World in response to a Department request for additional information.)*~~

~~***IMPORTANT REGULATORY CLASSIFICATIONS*** – The engine in this emission unit is regulated under NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), as amended in the 08/20/10 Federal Register, as existing stationary Reciprocating Internal Combustion Engines (RICE) at an area source of hazardous air pollutants (HAPs).~~

~~**Operation Requirements**~~

~~**I.1.** Operating Hours – There are no specific limitations on operating hours for the existing stationary engine in this section listed above.~~

~~*(Permitting Note – See also the previous Permitting Note below the descriptions of these emission units. The maximum actual operating hours of these engines is inherently restricted by the limited purpose for which they are used.)*~~

~~**Applicable Federal Requirements**~~

~~**I.2.** Federal 40 CFR 63 NESHAP Subpart ZZZZ Requirements – The existing stationary engine in this section listed above is subject to the applicable requirements of NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)), which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart ZZZZ, as it applies to existing RICE at area sources of hazardous air pollutants (HAP). The applicable requirements for these are shown in the Summary of NESHAP 40 CFR 63 Subpart ZZZZ Applicable Requirements for Existing CI RICE at Area Sources of HAP, attached to this permit, under the category Non-Emergency CI < 300 HP.
[Rule 62-4.070(3), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]~~

~~*(Compliance Note – The final compliance date for the applicable Subpart ZZZZ requirements for the existing compression ignition (**CI**) RICE engines at this area source of HAP is 05/03/2013. (40 CFR 63.6595(a)(1).)*~~

~~**I.3.** Federal NESHAP 40 CFR 63 Subpart A General Provisions Requirements - The engine in this section listed above is subject to the applicable requirements of NESHAP 40 CFR 63 Subpart A (General Provisions for 40 CFR 63), as adopted and incorporated by reference in Rules 62-204.800(11)(d), F.A.C., which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart A. The applicable requirements of Subpart A are shown in Table 8 to 40 CFR 63 Subpart ZZZZ *(see Appendix NESHAP 40 CFR 63 Subpart ZZZZ)*.~~
~~[Rule 62-208.800(11)(d), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]~~

~~**Subsection J. This section addresses the following emissions unit (EU).**~~

~~**EU No.**~~	~~**Brief Description**~~
~~035~~	~~"New" Stationary Spark Ignition (SI) RICE Engines *(listed below):*~~

~~Manufacturer & Model~~	~~HP Rating~~	~~SI Engine Type~~	~~Year of Manuf.~~	~~Description~~
~~Honda GX 160~~	~~4.8~~	~~4SRB~~	~~2009~~	~~Air Compressor~~
~~Red Lion QUMPS-2081~~	~~5.5~~	~~4SRB~~	~~2009~~	~~Trash Pump (2")~~
~~Honda GX 390~~	~~13~~	~~4SRB~~	~~2008~~	~~Pressure Washer~~
~~Honda GX 160~~	~~5.5~~	~~4SRB~~	~~2007~~	~~Air Compressor~~

~~*("New" Engine Note – These engines are considered "new" stationary reciprocating internal combustion engines (RICE) in accordance with the provisions of NSPS Subpart JJJJ, 40 CFR 60.4230(a), and NESHAP Subpart ZZZZ, 40 CFR 63.6590(a)(2), based on the date of construction.)*~~

~~This facility contains four "new" stationary spark ignition RICE engines (shown above) that have been exempted from the requirements to obtain an air construction permit because they qualify for one of the generic emissions unit or activity exemptions listed in Rule 62-210.300(3)(b), F.A.C. (specifically, Rule 62-210.300(3)(b)1, F.A.C.) However, they are included in this permit as regulated emission units because they are subject to federal rule NSPS 40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, as adopted and incorporated by reference in Rule 62-204.800(8)(b), F.A.C.~~

~~**J.1**. Applicable Federal 40 CFR 60 NSPS Standard - The engines listed above are currently demonstrating compliance with the emission limitations of the applicable federal rule through the retention of a manufacturer's certification statement. So long as that certification is able to be retained, no additional compliance demonstration is required. At such time as that certification is no longer valid (i.e., due to operation or maintenance practices that are inconsistent with the manufacturer's recommendations, or modification or reconstruction of the engine), the permittee shall begin demonstrating compliance with the applicable standards listed in 40 CFR 60 Subpart JJJJ (incorporated into this permit in the attached appendices shown below) in a manner that is prescribed by that rule.~~
~~[Rule 62-204.800(8), F.A.C.; 40 CFR 60 Subparts A and JJJJ]~~

~~**Subsection K. This section addresses the following emissions units (EUs).**~~

~~**EU No.**~~	~~**Brief Description**~~
~~036~~	~~Existing Stationary Spark Ignition (SI) RICE Engines *(listed below):*~~

~~Manufacturer & Model~~	~~HP Rating~~	~~SI Engine Type~~	~~Year of Manuf.~~	~~Description~~
~~Honda TX~~	~~5.5~~	~~4SRB~~	~~2002~~	~~Trash Pump (2")~~
~~Briggs & Stratton Vanguard OHV~~	~~13~~	~~4SRB~~	~~2001~~	~~Trash Pump (4")~~
~~Honda 900 Series~~	~~10~~	~~4SRB~~	~~2005~~	~~Fuel Island Generator (Emergency Use)~~
~~Onan P216G~~	~~9~~	~~4SRB~~	~~1998~~	~~Welder/Generator~~
~~Briggs & Stratton (Model Unknown)~~	~~3.5~~	~~4SRB~~	~~2006~~	~~Trash Pump (1.5")~~
~~Honda GX 390~~	~~7~~	~~4SRB~~	~~2006~~	~~Pressure Washer~~

~~*(Permitting Note – All of the above engines are exempt from the construction permit requirements of Rule 62-210.300(1), F.A.C., in accordance with the provisions of Rule 62-210.300(3)(b)1., F.A.C. (Generic Emissions Unit or Activity Exemption).)*~~

~~*(Stationary SI RICE Engine Listing Note – The above listing of stationary SI RICE engines at this facility is based upon additional information dated 12/21/10 Citrus World in response to a Department request for additional information.)*~~

~~***IMPORTANT REGULATORY CLASSIFICATIONS*** – The engines in this emission unit are regulated under NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), as amended in the 08/20/10 Federal Register, as existing stationary Reciprocating Internal Combustion Engines (RICE) at an area source of hazardous air pollutants (HAPs).~~

~~**Operation Requirements**~~

~~**K.1.** Operating Hours – There are no specific limitations on operating hours for the existing stationary engines in this section listed above.~~

~~*(Permitting Note – See also the previous Permitting Note below the descriptions of these emission units. The maximum actual operating hours of these engines is inherently restricted by the limited purposes for which they are used.)*~~

~~**Applicable Federal Requirements**~~

~~**K.2.** Federal 40 CFR 63 NESHAP Subpart ZZZZ Requirements - The existing stationary engines in this section listed above are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)), which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart ZZZZ, as it applies to existing RICE at area sources of hazardous air pollutants (HAP). The applicable requirements for these are shown in the Summary of NESHAP 40 CFR 63 Subpart ZZZZ Applicable Requirements for Existing CI RICE at Area Sources of HAP, attached to this permit, under the category SI 4SRB.~~
~~[Rule 62-4.070(3), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]~~

> ~~*(Compliance Note – The final compliance date for the applicable Subpart ZZZZ requirements for the existing spark ignition (**SI**) RICE engines is 10/19/2013. (40 CFR 63.6595(a)(1).)*~~

~~**K.3.** Federal NESHAP 40 CFR 63 Subpart A General Provisions Requirements - The engines in this section listed above are subject to the applicable requirements of NESHAP 40 CFR 63 Subpart A (General Provisions for 40 CFR 63), as adopted and incorporated by reference in Rules 62-204.800(11)(d), F.A.C., which is attached to this permit as Appendix NESHAP 40 CFR 63 Subpart A. The applicable requirements of Subpart A are shown in Table 8 to 40 CFR 63 Subpart ZZZZ *(see Appendix NESHAP 40 CFR 63 Subpart ZZZZ)*.~~
~~[Rule 62-208.800(11)(d), F.A.C.; NESHAP 40 CFR 63 Subpart ZZZZ]~~

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary

Appendix I, List of Insignificant Emissions Units and/or Activities

Appendix NESHAP, 40 CFR 63, Subpart A – General Provisions

Appendix NESHAP, 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Appendix NSPS, Subpart A – General Provisions

Appendix NSPS, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

Appendix NSPS, Subpart GG - Standards of Performance for Stationary Gas Turbines

Appendix NSPS, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

~~Appendix NSPS, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines~~

Appendix RR, Facility-wide Reporting Requirements

Appendix TR, Facility-wide Testing Requirements

Appendix TV, Title V General Conditions

Summary of NESHAP 40 CFR Part 63 Subpart ZZZZ Applicable Requirements for Existing Stationary Reciprocating Internal Combustion Engines (RICE) at Area Sources of HAP

REFERENCED ATTACHMENTS.

The Following Attachments Are Included for Applicant Convenience:

Table H, Permit History
Table 1, Summary of Air Pollutant Standards and Terms
Table 2, Compliance Requirements
Statement of Basis