Flowers Baking Co. of Lakeland, Inc.

Facility ID No. 1050325
Polk County

Title V Air Operation Permit Renewal

Permit No. 1050325-011-AV
(Renewal of Title V Air Operation Permit No. 1050325-010-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Air and Solid Waste Permitting, Southwest District
13051 North Telecom Parkway, Suite 101
Temple Terrace, Florida 33637-0926

Telephone: (813) 470-5700
Fax: (813) 470-5996
E-mail: SWD_Air_Permitting@floridadep.gov

Compliance Authority:

State of Florida
Department of Environmental Protection
Compliance Assurance Program, Southwest District
13051 North Telecom Parkway, Suite 101
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Title V Air Operation Permit Renewal

Permit No. 1050325-011-AV

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FLORIDA DEPARTMENT OF Environmental Protection

Southwest District
13051 North Telecom Parkway #101
Temple Terrace, Florida 33637-0926

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Alexis A. Lambert
Secretary

PERMITTEE:
Flowers Baking Co. of Lakeland, Inc.
3355 West Memorial Blvd.
Lakeland, Florida 33815-1084

Permit No. 1050325-011-AV
Facility ID No. 1050325
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The existing Flowers Baking Co. of Lakeland, Inc. (Flowers Baking) is located in Polk County at 3355 West Memorial Blvd., Lakeland. UTM Coordinates are: Zone 17, 403.99 East and 3,102.95 North. Latitude is: 28° 03' 14" North; and Longitude is: 82° 00' 30" 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, and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

1050325-011-AV Effective Date: DATE, 2024
Renewal Application Due Date: Exp. DATE -225, 20zz
Expiration Date: Eff. DATE + 5 years, 20zz

Executed in Tallahassee, Florida.

(Proposed)

David Lyle Read, P.E., Environmental Administrator
Permit Review Section
Division of Air Resource Management

DLR/tb

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

Flowers Baking is a commercial bakery. The facility consists of four baking lines for yeast-based products, four natural gas-fired ovens, and eight flour storage silos. Baking Lines Nos. 1 through 4 consist of natural gas direct-fired ovens with design heat input rates of 13.17 million British thermal units per hour (MMBtu/hr), 6.0 MMBtu/hr, 5.64 MMBtu/hr, and 6.0 MMBtu/hr, respectively. The ovens bake bread and rolls/buns by the sponge-dough process (Oven Nos. 1 and 2) or by liquid fermentation (Oven Nos. 3 and 4). Each of the baking lines is associated with a production line that consists of mixing, proofing, baking, cooling and packaging. The ovens produce a variety of bread products utilizing several different formulas. These include leavened products in which cream yeast, water and minor ingredients are added to flour in a fermentation process. The facility also operates an emergency generator.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Oven No. 1 – Line 1 Continuous Bread Baking Oven
002	Oven No. 2 – Line 2 Continuous Bread Baking Oven
003	Oven No. 3 – Line 3 Continuous Bread Baking Oven
004	Oven No. 4 – Line 4 Continuous Bread Baking Oven
005	Flour Storage Silos (8)
006	Emergency Natural Gas/Propane Engine (64.37 HP)

Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I, List of Insignificant Emissions Units and/or Activities).

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received March 13, 2024, this facility is not a major source of hazardous air pollutants (HAP). The existing facility is not a prevention of significant deterioration (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.
Federal Rule Citations	
40 CFR 60, Subpart A, NSPS General Provisions	006
40 CFR 60, Subpart JJJJ, Standards of Performance for Stationary SI ICE	006
40 CFR 63, Subpart A, NSPS General Provisions	006
40 CFR 63, NESHAP for Stationary RICE	006
State Rule Citations	
Chapter 62-213, F.A.C.	001 - 006
Rule 62-204.800 F.A.C., Federal Regulations Adopted by Reference	006

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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, VOC or OS without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department.

a. Maintain tightly fitting covers, lids, etc., on all containers of OS/VOC when they are not being handled, tapped, etc.
b. Prevent excessive air turbulence across exposed OS/VOC.
c. Where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of OS/VOC so that it can be covered when not in use.
d. All fittings, valve lines, etc., shall be properly maintained.
e. All OS/VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

[Rule 62-296.320(1), F.A.C.; and Permit No. 1050325-007-AC]

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. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

FW5. Unconfined Particulate Matter (PM). No person shall cause, let, permit, suffer or allow the emissions of unconfined PM 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 PM at this facility include:

a. Normal "good housekeeping procedures" shall be used as needed including immediate removal and disposal of any flour that may be spilled onto the concrete outside the facility during the unloading process.
b. Facility roadways and parking areas are paved.
c. Flour storage silos with filter bags on exhausts.
d. Flour is unloaded from transport trucks to silos by pneumatic conveyance.
e. The flour and sugar storage and handling equipment are enclosed.
f. Unconfined PM emissions could potentially result from the unloading and transfer of flour. Flowers has taken precautions to control such emissions, including:
   (1) Operation of filtration devices on each of the eight silos in order to minimize flour loss as it is being pneumatically conveyed to the silos, and
   (2) Immediate removal and disposal of any flour that may be spilled onto the concrete outside the facility during the unloading process. Flowers recognizes that spilled flour could enter the environment as an air emission or as a storm water pollutant, so every effort is taken to prevent such occurrences. The facility's Storm Water Pollution Prevention Plan utilizes best management practices (BMPs) to ensure that spilled flour is immediately removed.

[Rule 62-296.320(4)(c), F.A.C.; Permit No. 1050325-007-AC; and proposed by applicant in Title V air operation permit renewal application 1050325-011-AV.]

Reports and Fees

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

FW6. Electronic Annual Operating Report and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's (DEP) Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1st of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, Post Office Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available 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. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: http://www.dep.state.fl.us/air/emission/eaor. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. ***A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.****}*

FW7. 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 and to the US. EPA at the address shown below within 60 days after the end of each calendar year during which the Title V air operation permit was effective. (See also Appendix RR, Conditions RR1 and RR7.) [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303
Attn: Air Enforcement Branch

FW8. Prevention of Accidental Releases (Section 112(r) of CAA). If, and when, the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the

following address: https://cdx.epa.gov. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: http://www2.epa.gov/rmp. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

FW9. Semi-Annual Reports. The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports at least every six months to the compliance office. Each semi-annual report shall cover the 6-month periods of January 1 – June 30 and July 1 – December 31. The reports shall be submitted by the 60th day following the end of each calendar half (i.e., March 1st and August 29th of every year). All instances of deviations from permit requirements (including conditions in the referenced Appendices) must be clearly identified in such reports, including reference to the specific requirement and the duration of such deviation. If there are no deviations during the reporting period, the report shall so indicate. Any semi-annual reporting requirements contained in applicable federal NSPS or NESHAP requirements may be submitted as part of this report. The submittal dates specified above shall replace the submittal dates specified in the federal rules. All additional reports submitted as part of this report should be clearly identified according to the specific federal requirement. All reports shall include a certification by a responsible official, pursuant to subsection 62-213.420(4), F.A.C. (See also Conditions RR2. – RR4. of Appendix RR, Facility-wide Reporting Requirements, for additional reporting requirements related to deviations.) [Rule 62-213.440(1)(b)3.a., F.A.C.; and, 40 CFR 60.19(d), 40 CFR 61.10(h) & 40 CFR 63.10(a)(5)]

{Permitting Note: EPA has clarified that, pursuant to 40 CFR 70.6(a)(3), the word "monitoring" is used in a broad sense and means monitoring (i.e., paying attention to) the compliance of the source with all emissions limitations, standards, and work practices specified in the permit.}

FW10. VOC Emissions. Facility-wide total VOC emissions shall not exceed 200.0 tons/year. [Rule 62-210.200(PTE), F.A.C.; and Permit No. 1050325-007-AC]

FW11. Individual HAP Emissions. Facility-wide individual HAP emissions shall not exceed 9.9 tons/year. [Rule 62-210.200(PTE), F.A.C.; and Permit No. 1050325-007-AC]

FW12. HAP and VOC Records**.**

a. *Log*. The permittee shall keep logs for the facility to document compliance with the HAP and VOC limitations of Specific Conditions **FW10** and **FW11**. The logs shall at a minimum contain the following:
   (1) Facility Name, Emission Unit ID No. and Description.
   (2) Month, year, and method used for records (e.g. production volume).
   (3) The formula type and pounds of each bread product produced for each baking line.
   (4) For each month, the cumulative production rate (in tons) of each bread product.
   (5) The VOC Emission Factor parameters for each formula, including:
      (a) Initial baker's percent of yeast, to the nearest tenth of a percent.
      (b) Total yeast action time in hours, to the nearest tenth of an hour.
      (c) Final (spike) baker's percent of yeast, to the nearest tenth of a percent.
      (d) Spiking time, in hours, to the nearest tenth of an hour.
   (6) The monthly total quantity, in tons, for VOC Emissions, in paragraph **c.**Error! Reference source not found. of this condition, and individual HAP emissions, in paragraph Error! Reference source not found. of this condition, from each baking line (including the gas-fired ovens).
   (7) The most recent consecutive 12-month total quantity, in tons, for individual HAP and total VOC emissions from Baking Line Nos. 1 through 4.

b. *Supporting Documentation.* Supporting documentation (e.g., Safety Data Sheets (SDS), purchase orders, emission factors, etc.) shall be kept to provide sufficient information to determine emissions. These records shall be made available to the Department upon request.

c. *VOC Emissions*.

(1) VOC Emissions from the baking process shall be determined using the equation below (reference: EPA AP-42 Chapter 9.9.6 Bread Baking) or other factors agreed to in writing by the Air Permitting Section of the Department's Southwest District Office.

$$VOC\ Emission\ Factor = 0.95Y_i + 0.195t_i - 0.51S - 0.86t_S + 1.90$$

Where:
VOC Emission Factor = pounds VOC per ton of baked bread.
Y_i = initial baker's percent of yeast, to the nearest tenth of a percent.
ti = total yeast action time, in hours, to the nearest tenth of an hour.
S = final (spike) baker's percent of yeast, to the nearest tenth of a percent.
t_s = spiking time in hours, to the nearest tenth of an hour.

(2) VOC Emissions (in pounds), for each individual bread type, are equal to the calculated VOC emissions factor for that bread type multiplied by the amount (in tons) of that individual bread type produced. Total VOC emissions shall be the sum of VOC emissions from the baking process and VOC emissions from the gas-fired ovens.

d. *HAP Emissions*. The primary HAP emitted from the ovens is acetaldehyde.

$$Acetaldehyde\ Emissions\ (in\ tons) = Total\ VOC\ (in\ tons) \times 0.03474$$
$$(unless\ otherwise\ notified\ of\ another\ EF\ by\ the\ Department)$$

e. *Record Retention.* All records/logs shall be maintained on site for a minimum of the most recent 5 year period and made available to the Department upon request. Monthly records/logs required by this permit shall be completed by the end of the following month.

{Permitting Note: The facility-wide VOC and HAP emission limits include, but not limited to, all regulated, unregulated, insignificant, and exempt emission units and/or activities. The permittee shall provide and update the facility-wide PTE for all regulated pollutants and HAP (individual and total HAP) as required for all applications submitted to obtain an air construction permit modification and renewal of the air operation permit.}

[Rule 62-4.070(3), F.A.C.; and Permit No. 1050325-007-AC]

FW13. Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard in Rules 62-204 through 62-297, F.A.C. or in a permit issued pursuant to those rules is being violated, it shall require the permittee of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(8)(c), F.A.C.]

FW14. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

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

EU No.	Brief Description
001	Oven No. 1 – Line 1 Continuous Bread Baking Oven
002	Oven No. 2 – Line 2 Continuous Bread Baking Oven
003	Oven No. 3 – Line 3 Continuous Bun Baking Oven
004	Oven No. 4 – Line 4 Continuous Bun Baking Oven

Baking Lines Nos. 1 through 4 consist of natural gas direct-fired ovens with design heat input rates of 13.17 MMBtu/hr, 6.0 MMBtu/hr, 5.64 MMBtu/hr, and 6.0 MMBtu/hr, respectively, which bake bread and rolls/buns by the sponge-dough process (Oven Nos. 1 and 2) or by liquid fermentation (Oven Nos. 3 and 4). Bulk quantities of flour are shipped to the facility in cargo tankers and the flour is conveyed into one of the facility's eight storage silos. These silos, which are located outside the facility, utilize either baghouses (Silo Nos. 1 - 6) or canister-type filters (Silo Nos. 7 and 8) to minimize the loss of flour during the flour unloading process. The flour is then weighed and mixed with sugar, yeast, water, and other miscellaneous ingredients. There are two basic types of dough mixing processes utilized at the facility: sponge dough (Oven Nos. 1 and 2) and liquid fermentation (Oven Nos. 3 and 4). These processes vary in the manner in which the various dough ingredients are mixed, which determines the amount of fermentation time available. Fermentation times can vary from 20 minutes or less to five hours or more, usually averaging between three and three and a half hours. The baking process, which occurs in the four ovens (Oven Nos. 1 and 2 for baking bread, and Oven Nos. 3 and 4 for baking buns), causes expansion of the loaf to final volume, crust formation, yeast and enzyme activity inactivation, coagulation of the dough proteins, partial gelatinization of the starch, and reduction of loaf moisture, all of which are necessary to produce high-quality bread products.

Before entering an oven, the dough is allowed to rise in a "proof box". Steam for this high temperature, high-humidity proof box environment is supplied by three natural gas-fired boilers (insignificant emission units). Oven emissions are generated by two processes: the combustion of natural gas, and off-gassing from the bread products themselves. Bread product off-gases are generated as a result of the fermentation process, which causes the sugars and starches to be converted to ethanol, carbon dioxide, and water. Fermentation begins immediately following the initial mixing of ingredients and continues until the yeast is killed in the oven. During the initial fermentation period, a skin forms on the top of the dough. The skin keeps the ethanol and carbon dioxide in the dough, thereby allowing the dough to rise and minimizing fugitive emissions. As a result, most of the ethanol generated by the fermentation process is released in the oven when the skin breaks during the baking process.

Once the product exits the oven, it is allowed to cool while it is transferred via conveyor to the slicing and packaging area. Once sliced and packaged, the product is shipped to customers by truck.

{Permitting Note: These emission units are regulated under Rule 62-210.300, F.A.C., Permits Required.}

Essential Potential to Emit (PTE) Parameters

A.1. Methods of Operation - Fuels. The direct gas-fired baking ovens shall be fired with natural gas only. [Rule 62-213.410, F.A.C.; and Permit No. 1050325-007-AC.]

A.2. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.; and Permit No. 1050325-007-AC.]

Recordkeeping and Reporting Requirements

A.3. Change in Operation - Notification. Any proposed change to this source that will cause the limitations of this permit to be exceeded, such as design-parameter changes or an increase in emissions, may be considered a modification and must be reported. The permittee shall notify the Air Permitting Section of the Department's Southwest District Office of any changes that may reasonably be expected to increase actual

emissions and receive written approval from the Air Permitting Section of the Department's Southwest District Office of the changes prior to implementing the changes. [Rule 62-4.070(3), F.A.C.; and Permit No. 1050325-007-AC]

A.4. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

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

EU No.	Brief Description
005	Flour Storage Silos (8)

The existing eight storage silos are used for containing flour. Silo Nos. 1 - 6 are each equipped with a baghouse and Silo Nos. 7 and 8 are each equipped with bin vent filters to control PM emissions.

{Permitting Note: These emission units are regulated under Rule 62-210.300, F.A.C., Permits Required.}

Essential PTE Parameters

B.1. Permitted Capacity. The maximum loading rate for Silo Nos. 1 – 8, combined, shall not exceed the following:

Unit No.	Loading Rate Tons/Year	Description
005	80,000	Flour, tons per any consecutive 12-month period.

[Rules 62-4.070(3) & 62-210.200(PTE), F.A.C.; and Permit No. 1050325-007-AC.]

B.2. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year).
[Rules 62-4.070(3) & 62-210.200(PTE), F.A.C.; and Permit No. 1050325-007-AC]

Control Technology

B.3. Silo Baghouse Nos. 1 - 6. Silo Nos. 1 - 6 are each equipped with a fabric filter baghouse to control emissions of PM. The existing baghouses use Parker Sales, Bag No. 156C x 77, with strap-top (Part No. NGDTR1), or equivalent. The baghouses control emissions of PM with a control efficiency of 99% for PM and PM with a mean diameter of less than 10 microns (PM_{10}) and 95% for $PM_{2.5}$. [Permit No. 1050325-007-AC]

B.4. Bin Vent Filters. Silo Nos. 7 - 8 are equipped with bin vent filters, Schiek canister-type, Tubeveyor Filter (Part No. 15307), or equivalent to, to control emissions of PM. The bin vent filters control emissions of PM with a control efficiency of 99% for PM and PM_{10} and 95% for $PM_{2.5}$. [Permit No. 1050325-007-AC]

B.5. Circumvention. The permittee shall not circumvent or operate the air pollution control equipment in such a manner which would violate allowable emission rates established for these units. [Rule 62-210.650, F.A.C.]

Recordkeeping and Reporting Requirements

B.6. Silo Loading Records. The permittee shall keep logs for the facility to document compliance with the silo loading limitation of Specific Condition **B.1. .**

a. *Monthly Logs*. The logs shall at a minimum contain the following:
   (1) Facility Name, Emission Unit ID No. and Description.
   (2) Month, year, and method used for records.
   (3) The sum total, in tons, of the material loaded into all eight of the flour storage silos combined.
   (4) The most recent consecutive 12-month sum total, in tons, of the material loaded into all eight of the flour storage silos combined.

b. *Record Retention.* All records/logs shall be maintained on site for a minimum of the most recent 5 year period and made available to the Department upon request. Monthly records/logs required by this permit shall be completed by the end of the following month.

[Rule 62-4.070(3), F.A.C.; and Permit No. 1050325-007-AC]

B.7. Change in Operation - Notification. Any proposed change to this source that will cause the limitations of this permit to be exceeded, such as design-parameter changes or an increase in emissions, may be considered a modification and must be reported. The permittee shall notify the Air Permitting Section of the Department's Southwest District Office of any changes that may reasonably be expected to increase actual

emissions and receive written approval from the Air Permitting Section of the Department's Southwest District Office of the changes prior to implementing the changes. [Rule 62-4.070(3), F.A.C.; and Permit No. 1050325-007-AC]

B.8. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

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

EU No.	Brief Description
006	Emergency Natural Gas/Propane Generator (64.37 HP)

This emissions unit is an emergency stationary SI, four-stroke rich burn (4SRB), ICE that fires natural gas (NG) or propane with a maximum engine rating of 64.37 HP (48 kW) at 100% load.

The following table provides important details for the engine:

Engine Identification	Engine Brake	Fuel	Model Year	Displacement liters/cylinder	Engine Manufacturer	Model No.	Family Certification No.
NE Control Room Building Emergency Generator	64.37 (48 kW)	NG/ Propane	2018	4.5	Generac	RG048	JGNSB05.42NL

{Permitting Note: This SI ICE is regulated under NESHAP Subpart A, General Provisions, and Subpart ZZZZ, NESHAP for Stationary RICE, of 40 CFR 63; and NSPS Subpart A, General Provisions, and Subpart JJJJ, Standards of Performance for Stationary SI ICE; and adopted and incorporated in Rules 62-204.800(11)(b) and (8)(b), F.A.C., respectively. This permit section addresses the existing "new" stationary SI ICE less than 500 HP, with a displacement less than 10 liters/cylinder, that is located at a minor source of HAP and manufactured after 7/1/2008. In accordance with provisions of 40 CFR 63.6590(c)(6), meeting the requirements of 40 CFR 60, Subpart JJJJ, satisfies compliance with the requirements of Subpart ZZZZ of 40 CFR 63.}

Essential Potential to Emit (PTE) Parameters

C.1. Restricted Hours of Operation. The permittee shall operate the emergency stationary ICE according to the requirements in paragraphs **a – c** of this condition. In order for the engine to be considered an emergency stationary ICE under 40 CFR Subpart JJJJ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours/year, as described in paragraphs **a – c**, is prohibited. If you do not operate the engine according to the requirements in paragraphs **a – c**, the engine will not be considered an emergency engine under 40 CFR Subpart JJJJ and must meet all requirements for non-emergency engines.

a. *Emergency Situations.* There is no time limit on the use of emergency stationary ICE in emergency situations.

b. *Maintenance and Testing.* Each SI ICE is authorized to operate for the purpose of maintenance checks and readiness testing for a maximum of 100 hours per calendar year, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

c. *Non-emergency Situations.* Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph **b** of this condition. Except as provided in 40 CFR 60.4243(d)(3)(i)(A) – (E), the 50 hours/year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4243(d)]

Emission Limitations and Standards

C.2. NOx Emissions. Nitrogen oxide (NO_X) + Hydrocarbon (HC) emissions shall not exceed the following:
a. *LPG*. 10 grams per horsepower hour (g/hp-hr).
b. *Natural Gas*. 10 g/hp-hr.
[Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4233(d) & Table 1]

C.3. CO Emissions. Carbon Monoxide (CO) emissions shall not exceed the following:
a. *LPG*. 387 g/hp-hr.
b. *Natural Gas*. 387 g/hp-hr.
[Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4233(d) & Table 1]

Monitoring of Operations

C.4. Hour Meter. The permittee shall install a non-resettable hour meter if one is not already installed.
[Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4237(c) & 60.4245(b)]

Testing and Compliance Requirements

C.5. Operation and Maintenance. The permittee shall operate and maintain this engine to achieve the emission standards specified in Specific Conditions **C.2** and **C.33** over the entire life of the engine.
[Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4234]

C.6. Compliance Requirements. Because this engine was certified to meet the emissions standards specified in Specific Conditions **C.2** and **C.33** at the time of purchase, permittee shall demonstrate compliance according to the following methods:
a. *Certified Engine.* If permittee operates and maintains the certified stationary SI ICE and control device according to the manufacturer's emission-related written instructions, permittee shall keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. The permittee shall also meet the requirements as specified in 40 CFR 1068, Subparts A - D. If the permittee adjusts the engine settings according to and consistent with the manufacturer's instructions, the stationary SI ICE will not be considered out of compliance. [Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4243(a)(1) & 60.4243(b)(1)]
b. *Loss of Certification.* If the permittee does not operate and maintain the certified stationary SI ICE and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and the permittee shall demonstrate compliance as follows: The permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. The permittee is required to perform initial performance testing as indicated in 40 CFR 60.4243(a)(2)(i), but is not required to conduct subsequent performance testing unless the stationary engine undergoes rebuild, major repair or maintenance. Engine rebuilding means to overhaul an engine or to otherwise perform extensive service on the engine (or on a portion of the engine or engine system). To perform extensive service means to disassemble the engine (or portion of the engine or engine system), inspect and/or replace many of the parts, and reassemble the engine (or portion of the engine or engine system) in such a manner that significantly increases the service life of the resultant engine. [Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4243(a)(2)(i)&(f)]

Recordkeeping and Reporting Requirements

C.7. Compliance Records. To demonstrate conformance with the manufacturer's written instructions for maintaining the certified engine, the owner and operator must keep records of the following information:
a. *Notifications*. All notifications submitted to comply with 40 CFR 60, Subpart JJJJ, and all documentation supporting any notification.

b. *Maintenance*. Maintenance conducted on the engine.
c. *Manufacturer Certification Documentation*. If the emissions unit is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR 1048, 1054, and 1060, as applicable.
d. *Documentation showing Compliance with Standards*. If the SI ICE is not a certified engine or is a certified engine operating in a non-certified manner and subject to paragraph **b** of this condition, documentation that the engine meets the emission standards.

[Rules 62-204.800(8)(b) & 62-213.440(1), F.A.C.; and 40 CFR 60.4245(a)]

C.8. Operating Records. The owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter required in Specific Condition **C.4**. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.
[Rule 62-204.800(8)(b), F.A.C.; and 40 CFR 60.4245(b)]

C.9. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

Other Requirements

C.10. NSPS Provisions. The permittee shall comply with the applicable requirements in NSPS, Subpart A, General Provisions, and Subpart JJJJ, Standards of Performance for Stationary SI ICE, of 40 CFR 60, adopted and incorporated by reference in Rule 62-204.800(8)(b) and (c), F.A.C. [Rule 62-204.800(8)(b) & (c), F.A.C., and 40 CFR 60, Subparts A & JJJJ]

General Provisions

C.11. 40 CFR 60 Subpart A, General Provisions. The owner or operator shall comply with the applicable requirements of 40 CFR 60, Subpart A - General Provisions, as specified below.

General Provisions Citation	Subject of citation	Explanation
§ 60.1	General applicability of the General Provisions	
§ 60.2	Definitions	Additional terms defined in §60.4248.
§ 60.3	Units and abbreviations	
§ 60.4	Address	
§ 60.5	Determination of construction or modification	
§ 60.6	Review of plans	
§ 60.7	Notification and Recordkeeping	Except that §60.7 applies only in §60.4245.
§ 60.8	Performance tests	Except that §60.8 only applies to owners/operators subject to testing.
§ 60.9	Availability of information	
§ 60.10	State Authority	
§ 60.11	Compliance with standards & maintenance requirements	Requirements are specified in Subpart JJJJ.
§ 60.12	Circumvention	
§ 60.14	Modification	
§ 60.15	Reconstruction	
§ 60.16	Priority list	
§ 60.17	Incorporations by reference	
§ 60.19	General notification & reporting requirements	

[40 CFR 60.4246 & Table 3]

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