Johnson & Johnson, Vision Care, Inc.
J & J Vision Care

Facility ID No. 0310535
Duval County

Title V Air Operation Permit Renewal

Permit No. 0310535-018-AV
(Renewal of Title V Air Operation Permit No. 0310535-012-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Northeast District Office
Permitting Program
8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256

Telephone: (904) 256-1700
Fax: (904) 256-1588

Compliance Authority:

State of Florida
Department of Environmental Protection
Northeast District Office
Compliance Assurance
8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256

Telephone: (904) 256-1700
Fax: (904) 256-1590

Title V Air Operation Permit Renewal

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Florida Department of Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE:
Johnson & Johnson, Vision Care, Inc.
7500 Centurion Parkway
Jacksonville, Florida 32256

Permit No. 0310535-018-AV
J & J Vision Care
Facility ID No. 0310535
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 and for the incorporation of the terms of the construction Permit No. 0310535-017-AC for the installation of contact lens manufacturing lines and a second oxidizer. The existing J & J Vision Care is located in Duval County at 7500 Centurion Parkway, Jacksonville. UTM Coordinates are: Zone 17, 447.30 km East and 3345.41 km North. Latitude is: 30° 14' 21" North; and, Longitude is: 81° 32' 52" 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.

0310535-018-AV Effective Date: DATE, 2018
Renewal Application Due Date: Exp. DATE -225, 20zz
Expiration Date: Eff. DATE + 5 years, 2023

Executed in Jacksonville, Florida
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

(Draft/Proposed)

_____
Brian Durden
Permitting Program Manager

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

The existing facility consists of numerous contact lens manufacturing and research and development (R & D) lines. The manufacturing lines begin with resin injection molding for contact lens production, hydration, packaging, printing operations and waste plastic collection and processing systems. [redacted]. The contact lenses are then inspected, sterilized and packaged for shipment. Any waste plastic generated is collected and disposed.

The manufacturing of contact lenses is regulated as EU 001. Three emergency engines, a water pump engine and two generator engines, are regulated as EU 002, EU 003, and EU 004. These regulated emission units appear in the table below. The applicant accepted a cap on facility-wide VOC emissions of 249.9 TPY to avoid being a PSD major source. The facility uses two thermal oxidizers to control VOC emissions from the contact lens manufacturing and dust collectors that control particulate matter emissions are considered an inherent control.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Contact Lens Manufacturing
002	Diesel Fire Pump – Model Year 1994, 208 HP
003	Emergency Diesel Generator – Model Year 2012, 2922 HP
004	Emergency Diesel Generator – Model Year 2003, 535 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). Insignificant emission units include four 12,000 gallon isopropyl tanks, four 20,000 gallon propylene glycol tanks, and four 2,600 gallon loop tanks. The hydration line is another insignificant emission unit(s). The facility list of insignificant emission units also includes five natural gas (NG) 8.4 MMBtu/hr boilers, one 1 MMBtu/hr NG hot water heater, and two 6 MMBtu/hr NG hot water heaters.

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received February 2, 2018, this facility is not a major source of hazardous air pollutants (HAP). A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
Federal Rule Citations	
40 CFR 60, Subpart A, NSPS General Provisions	003
40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	003
40 CFR 63, Subpart A, NESHAP General Provisions	002, 004
40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	002, 003, 004
40 CFR 64, Compliance Assurance Monitoring	001
State Rule Citations	

State Rule Citations (Rule 62-204.800, F.A.C., Federal Regulations adopted by Reference)	001, 002, 003, 004
State Rule Citations (Rule 62-210.200, F.A.C., PTE)	001
State Rule Citations (Rule 62-213, F.A.C., Operation Permits for Major Sources of Air Pollution)	001, 002, 003, 004
State Rule Citations (Rule 62-296, F.A.C., Stationary Sources – Emission Standards)	001
State Rule Citations (Rule 62-297, F.A.C., Stationary Sources – Emissions Monitoring)	001

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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, 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.]

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. 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 areas and yards.
b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
d. Removal of particulate matter from roads and other paved areas under the control of the permittee of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
e. Landscaping or planting of vegetation.
f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
g. Confining abrasive blasting where possible.
h. Enclosure or covering of conveyor systems.

[Rule 62-296.320(4)(c), F.A.C.; and, Rule 2.1101, JEPB; and, as proposed by applicant in Title V air operation permit renewal application received February 2, 2018.]

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); and, Rules 2.301 and 2.501, JEPB]

{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.; and, Rule 2.501, JEPB]

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; Rule 62-204.800, F.A.C.; and, Rule 2.201, JEPB]

FW9. Semi-Annual Monitoring Reports. The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports of any deviations from the requirements of these conditions at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports, including reference to the specific requirement and the duration of such deviation. All reports shall

be accompanied by 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.]

{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.}

Other

FW10. Facility-wide VOC emissions shall be limited to 249.9 tons per year (calendar basis) at the request of the applicant to maintain the facility status as minor for Prevention of Significant Deterioration (PSD) purposes. [Applicant's request]

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Subsection A. EU001 – Contact Lens Manufacturing

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

EU No.	Brief Description
001	Contact Lens Manufacturing.
	Emissions vent from two different stacks having different exhaust flow rates: EP 01 – TO #1 Stack – VOC emissions controlled by Existing Oxidizer add-on control EP 02 – TO #2 Stack – VOC emissions controlled by New Oxidizer add-on control EP 03 – Building Roof Vent – VOC emissions that "bypass" either Oxidizer add-on control
	TO #1: Catalytic oxidizer controls VOC emissions from Type "A" Lines 18, 19, 20 with a catalyst exit temperature of approximately 630 degrees Fahrenheit. The estimated nominal airflow is 2500 scfm. **TO #2**: Controls VOC emissions from Type "A" Lines 1, 2, 3, 7, 8, 22 and Type "B" Line 17. B&W MEGTEC (or equivalent) thermal oxidizer with an estimated exit temperature of approximately 300 degrees Fahrenheit. The estimated minimal airflow is 4,000 scfm. Particulate matter emissions from the waste plastic and packaging systems are controlled by two dust collectors as follows: 1. National Turbine 48x86 Dual Cartridge Pulse Jet Unit - Estimated nominal airflow is 5700 dscfm. 2. Hosokawa Mikropul Reverse Air Flow 3GT121S-8C - Estimated nominal airflow is 7500 dscfm.

{Permitting Note: The existing thermal oxidizer remains in service to control (VOC) emissions from Type A Lines 18, 19, 20. RAI response to 0310535-018-AV.}

Essential Potential to Emit (PTE) Parameters

A.1. 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., and Rule 2.1201, JEPB]

A.2. Methods of Operation.

a. *VOC collection system and thermal oxidizers.* The VOC collection system and thermal oxidizers shall be operated in accordance with the manufacturers' recommendations. Due to the ongoing material substitution program being implemented at the facility which raises VOC emissions, Type "A" and Type "B" lines may continue to operate when the thermal oxidizers are not operating as allowed by **Specific Condition No. A.3.b.** [Air Construction Permit No. 0310535-017-AC and RAI response to 0310535-018-AV]

b. *General Pollutant Emission Limiting Standards. 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. [Rule 62-296.320(1), F.A.C., and Rule 2.1101, JEPB]

c. *Unconfined particulate matter emissions*. Unconfined particulate matter emissions from materials handling operations shall be controlled by using the following reasonable precautions.

   i. Use of hoods, fans, filters, and similar equipment to contain, capture, and/or vent particulate matter.

   ii. Enclosures or covering of conveyor systems.

[Rule 62-296.320(4)(c)3.f and h, F.A.C., and Rule 2.1101, JEPB]

d. *Operation and Maintenance Plan.* An Operation and Maintenance Plan is attached to and made a part of this permit for the associated waste plastic collection system control devices. All activities shall be performed as scheduled and recorded. Data shall be made available to the Permitting Authority upon request. Records shall be maintained on file for a minimum period of five (5) years. [Air Construction Permit Application No. 0310535-001-AC]

e. *General Pollutant Emissions Limiting Standard, Objectionable Odor Prohibited*. The Permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C., and Rule 2.1101, JEPB]

f. *TO #1 - Existing Oxidizer*. TO #1 operates to control VOC emissions from Type A Lines 18, 19 and 20. [Rule 62-210.200, F.A.C., Air Construction Permit No. 0310535-017-AC; RAI response to 0310535-018-AV, and Rule 2.301, JEPB]

g. *TO #2 - New Oxidizer*. TO #2 operates to control VOC emissions from Type A Lines 1, 2, 3, 7, 8, and 22 and future lines. [Rule 62-210.200, F.A.C., Air Construction Permit No. 0310535-017-AC; RAI response to 0310535-018-AV, and Rule 2.301, JEPB]

h. *Bypass oxidizers*. Manufacturing lines VOC emissions that bypass a TO shall be vented out the roof. [Rule 62-210.200, F.A.C.; RAI response to 0310535-018-AV, and Rule 2.301, JEPB]

A.3. Hours of Operation.

a. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.; and, Rule 2.301, JEPB]

b. Both the existing and new thermal oxidizers are each allowed a period of 60-days, or 1440-hours per year, of oxidizer downtime. Compliance with the permitted VOC emissions limitations during these periods shall be demonstrated in accordance with the recordkeeping and reporting requirements in **Specific Condition Nos. A.13.** and **A.14.** [Air Construction Permit No. 0310535-017-AC and RAI response to 0310535-018-AV]

Control Technology

A.4. To control VOC emissions from the Contact Lens Manufacturing process, the permittee shall operate the thermal oxidizers (TO #1 and TO #2) to achieve the requirements of **Specific Condition Nos. A.2.a.**, **A.2.b.**, **A.2.e.**, **A.3.b.**, **A.2.f.**, **A.2.g.**, **A.2.h.** and **FW10.** [Air Construction Permit Nos. 0310535-001-AC and 0310535-017-AC and RAI response to 0310535-018-AV]

A.5. To control particulate matter emissions from the plastic waste collection system, the permittee shall operate the dust collectors (National Turbine 48x86 Dual Cartridge Pulse Jet Unit and Hosokawa Mikropul Reverse Air Flow 3GT121S-8C) to achieve the requirements of **Specific Condition Nos. A.2.c** and **A.2.d.** [Air Construction Permit Nos. 0310535-001-AC and 0310535-017-AC]

{Permitting Note: The plastic waste from the collection system includes larger sized particles > 100 microns that could injure someone if uncaptured. For this reason, the plastic waste collection system dust collectors are considered an inherent design to provide a safe facility operation.}

Monitoring of Operations

A.6. CAM Plan. This emissions unit is subject to the Compliance Assurance Monitoring (CAM) requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(8)(c), F.A.C. [40 CFR 64; and, Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.; and, Rules 2.201 and 2.501, JEPB]

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.7. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

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 62-297.100, F.A.C., and, Appendix A of 40 CFR 60; and, Rules 2.201 and 2.1201, JEPB]

A.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.; and, Rule 2.1201, JEPB]

A.9. Initial VOC Compliance Tests. The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for VOC after any new lines that have been installed. The initial tests shall be conducted within 60 days after each new line achieves permitted capacity, but not later than 180 days after initial operation of a new line. The testing must be conducted in accordance with **Specific Condition No. A.11.** [Air Construction Permit No. 0310535-017-AC and RAI response 0310535-018-AV]

A.10. Second VOC Compliance Test. The second test shall be conducted when the rest of the production lines are tied in, or no later than 90 days prior to the air construction permit expiration date. The testing must be conduction in accordance with **Specific Condition No. A.11.** [Air Construction Permit No. 0310535-017-AC and RAI response 0310535-018-AV]

A.11. The initial VOC testing shall be conducted on the inlet and outlet to the thermal oxidizer controlling collected VOC emissions from all Type "A" Lines, and possible Type "B" Lines. The initial inlet and outlet test may be conducted sequentially as long as the same number of lines, and the production rates are similar (i.e. +/- 10%), and exit temperatures are relatively consistent to determine control efficiency, oxidizer temperature, and etc. The Second VOC compliance test may be conducted only at the outlet of the thermal oxidizer. [Air Construction Permit No. 0310535-017-AC]

Recordkeeping and Reporting Requirements

A.12. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition(s)
Semi-Annual Reporting of Operational Data	With the Semi-Annual Title V reports	**A.14.**

[Rule 62-213.440(1)(b), F.A.C.; and, Rule 2.501, JEPB]

A.13. Recordkeeping of Operational Data. The owner/operator shall maintain monthly records of the following:

a. Amount of all VOC and hazardous air pollutants (HAP) containing process substances used (gallons),

b. VOC content of all process substances used (pounds per gallon),

c. HAP content of all process substances used (pounds per gallon),

d. VOC emissions (pounds per month),

e. Individual HAP emissions (pounds per month),

f. Total HAP emissions (pounds per month),

g. Daily summary (hours) for each thermal oxidizer usage. Daily records of each thermal oxidizer downtime and reason shall be maintained,

h. Continuous temperature monitor for an hourly summary of each thermal oxidizer temperature (ºF), and any temperature excursions, that is based on a minimum of four or more temperature values equally spaced over each hour.

i. Each manufacturing line (including Type A and Type B lines) that was in use at the facility.

j. Each manufacturing line (including Type A and Type B lines) vented through an oxidizer and which oxidizer.

k. Each manufacturing line (including Type A and Type B lines) added or dropped from facility operations.

l. Each manufacturing line (including Type A and Type B lines) initially vented to an oxidizer and which oxidizer.

These records shall be maintained for a minimum of five (5) years and made available to the Permitting Authority upon request. [Air Construction Permit No. 0310535-017-AC and RAI response 0310535-018-AV]

A.14. Semi-Annual Reporting of Operational Data. Semi-annual reports shall be submitted to the Permitting Authority describing VOC/HAP contents, VOC/HAP emissions (monthly basis), total usage (hours) of each thermal oxidizer (monthly basis), average hourly temperature (monthly basis) of each thermal oxidizer, any temperature excursions (total hours per month), manufacturing lines in use with an identification of the lines vented into each oxidizer, manufacturing lines newly added or dropped at the facility, and each line newly vented to an oxidizer and to which oxidizer. The Semi-annual reports shall be submitted with the Semi-annual Title V Report. The final report shall include a synopsis of the preceding year. [Air Construction Permit No. 0310535-017-AC and RAI response 0310535-018-AV]

A.15. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.; and, Rule 2.501, JEPB]

Other Requirements

A.16. Compliance Plan. Based on the application, this emissions unit was not in compliance with all applicable requirements at the time the application was submitted. Appendix CP, Compliance Plan, is a part of this permit. [Rule 62-213.440(2), F.A.C.; and, Rule 2.501, JEPB]

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Subsection B. EU002 – Diesel Fire Pump – Model Year 1994, 208 HP and EU004 – Diesel Engine Generator – Model Year 2003, 535 HP

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

EU No.	Brief Description
002	Diesel Fire Pump – Model Year 1994, 208 HP
004	Diesel Engine Generator – Model Year 2003, 535 HP

{Permitting Note: These existing, emergency compression ignition (CI) reciprocating internal combustion engines (RICE) operate at an area source of HAP emissions. The Fire Pump is a Cummins engine, Model Number 6BTA5.9-F1. The diesel engine generator is a Cummins (Brazil), Model No. NT-855-G3.}

Essential Potential to Emit (PTE) Parameters

B.1. Methods of Operation.

a. *Startup.* The permittee shall minimize each engine's time spent at idle during startup and minimize each engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

b. *Maintenance.* The permittee shall comply with the following requirements for each engine as outlined in 40 CFR 63, Subpart ZZZZ, Table 2d.

   i. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil analysis program to extend this interval, as provided in **Specific Condition No. B.1.c** below.

   ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.

   iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

   [40 CFR 63.6603(a), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

c. *Oil Analysis Program*. The permittee has the option of using an oil analysis program to extend the oil change requirement. The oil analysis shall be performed at the same frequency specified for changing the oil as set forth in **Specific Condition No. B.1.b.i**. The analysis program shall at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine permittee is not required to change the oil. If any of the limits are exceeded, the engine permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine permittee must change the oil within 2 business days or before commencing operation, whichever is later. The permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for each engine. The analysis program must be part of the maintenance plan for each engine. [40 CFR 63.6625(i), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

d. *Operation and Maintenance Instructions.* The permittee shall operate and maintain each stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow their own maintenance plan for each engine which shall provide, to the extent practicable, for the maintenance and operation of each engine in a manner consistent with good air pollution control practices for minimizing emissions. [40 CFR 63.6625(e), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

e. *Operation and Maintenance Procedures*. At all times the permittee shall operate and maintain each stationary RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Compliance Authority which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

f. *Nonroad Diesel Fuel*. Beginning January 1, 2015, if each stationary RICE operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in 40 CFR 63.6640(f)(4)(ii), then the engine must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. [40 CFR 63.6604(b), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

B.2. Hours of Operation.

a. *Emergency*. Each emissions unit may operate continuously (8,760 hours/year) in emergency situations.

b. *Other*. Each emergency stationary RICE may be operated for any combination of the following purposes for a maximum of 100 hours:

i. Maintenance checks and readiness testing, 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.

{Permitting Note: The court vacated paragraphs 40 CFR 63.6640(f)(2)(ii)-(iii). EPA's view is that no emergency engine may operate in circumstances described in the vacated provisions for any number of hours unless in compliance with the emission standards and other applicable requirements for a non-emergency engine.}

c. *Non-emergency*. Each emergency stationary RICE may be operated up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing and emergency demand response. The 50 hours per year for non-emergency situations may not be used for peak shaving or non-emergency demand response or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [Except as provided in 40 CFR 63.6640(f)(4)(ii)].

[40 CFR 63.6640(f), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

Monitoring of Operations

B.3. Non-resettable Hour Meter. The permittee shall install for each engine a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

Recordkeeping and Reporting Requirements

B.4. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.; and, Rule 2.501, JEPB]

B.5. Records of Maintenance. The permittee shall keep records of the maintenance conducted on each stationary RICE including those required by **Specific Condition No. B.1.** to demonstrate that each stationary RICE and after-treatment control device (if any) was operated and maintained according to the maintenance plan. [40 CFR 63.6655(e), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

B.6. Records of Operating Hours. The permittee shall keep records of the hours of operation of each engine as set forth in **Specific Condition No. B.2.** using the non-resettable hour meter as required by **Specific Condition No. B.3**. The permittee shall document for each engine 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. If an engine is used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time each engine was operated as part of demand response. [40 CFR 63.6655(f), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

B.7. Recordkeeping. Records shall be kept and maintained for a minimum period of five (5) years of each notification and report that the permittee submitted to comply with this section, including all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted, the occurrence and duration of each malfunction of operation, all required maintenance performed on the non-resettable hour meter required by **Specific Condition No. B.3**., and records required by **Specific Condition Nos. B.5.** and **B.6.** The records shall identify the date of each occurrence, measurement, maintenance, corrective action, report, or record. Records shall be provided to the Permitting Authority upon request. [40 CFR 63.6660, Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

Other Requirements

B.8. Continuous Compliance. Each unit must be in compliance with the requirements in this section at all times. [40 CFR 63.6605(a), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

B.9. 40 CFR 63 Subpart A, General Provisions. The permittee shall comply with the following applicable requirements of 40 CFR 63 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C., except that the Secretary is not the Administrator for purposes of 40 CFR 63.5(e) and (f), 40 CFR 63.6(g) and (h)(9) and (j), 40 CFR 63.13, and 40 CFR 63.14.

General Provisions Citation	Subject of Citation
40 CFR 63.1	General applicability of the General Provisions
40 CFR 63.2	Definitions (Additional terms defined in 40 CFR 63.6675)
40 CFR 63.3	Units and abbreviations
40 CFR 63.4	Prohibited activities and circumvention
40 CFR 63.5	Construction and reconstruction
40 CFR 63.6(a)	Applicability
40 CFR 63.6(c)	Compliance dates for existing sources
40 CFR 63.9(a)	Applicability and State delegation of notification requirements
40 CFR 63.9(b)(1)–(5)	Initial notifications. Except that 40 CFR 63.9(b)(3) is reserved.
40 CFR 63.9(h)(1)-(6)	Notification of compliance status
40 CFR 63.9(i)	Adjustment of submittal deadlines
40 CFR 63.9(j)	Change in previous information
40 CFR 63.10(a)	Administrative provisions for recordkeeping/reporting
40 CFR 63.10(b)(1)	Record retention
40 CFR 63.10(b)(2)(xiv)	Records of supporting documentation
40 CFR 63.10(f)	Waiver for recordkeeping/reporting
40 CFR 63.12	State authority and delegations
40 CFR 63.13	Addresses
40 CFR 63.14	Incorporation by reference
40 CFR 63.15	Availability of information

[40 CFR 63.6665 & Table 8 to Subpart ZZZZ of Part 63; Rule 62-204.800, F.A.C.; and, Rule 2.201, JEPB]

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

EU No.	Brief Description
003	Emergency Diesel Generator – Model Year 2012, 2922 HP

{Permitting Note: This permit section addresses a 2012 emergency compression ignition (CI) reciprocating internal combustion engine (RICE) located at an area source of HAP emissions. The Cummins brand engine Model DQKAB, QSK60 series, is 3.75 liters per cylinder and operates with no after treatment device installed (e.g., no diesel particulate filter). The engine is subject to 40 CFR 60, Subpart IIII. [40 CFR 60.4200(a)(1)(i)] }

Essential Potential to Emit (PTE) Parameters

C.1. Methods of Operation.

a. *Fuel*. This emissions unit shall use diesel fuel that meets the following per-gallon standards required in 40 CFR 80.510(b) for non-road diesel:

i. The sulfur content for nonroad diesel fuel shall not exceed 15 ppm.

ii. The nonroad diesel cetane index shall not be less than 40 or the aromatic content shall not exceed 35 volume percent.

[40 CFR 60.4207(b), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

b. *Manufacturer emission-related instructions*. The permittee shall operate the stationary compression ignition RICE and control devices according to the manufacturer's emission-related written instructions. [40 CFR 60.4211(a)(1), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

c. *Manufacturer emission-related settings*. The permittee shall only change those emission-related settings that are permitted by the manufacturer. [40CFR 60.4211(a)(2), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

C.2. Hours of Operation.

a. *Emergency*. This emissions unit may operate continuously (8,760 hours/year) in emergency situations.

b. *Other*. The emergency stationary RICE may be operated for any combination of the following purposes for a maximum of 100 hours:

i. Maintenance checks and readiness testing, 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.

{Permitting Note: The court vacated paragraphs 40 CFR 60.4211(f)(2)(ii)-(iii). EPA's view is that no emergency engine may operate in circumstances described in the vacated provisions for any number of hours unless in compliance with the emission standards and other applicable requirements for a non-emergency engine.}

c. *Non-emergency*. The emergency stationary RICE may be operated up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing and emergency demand response.

d. *Non-emergency*. The 50 hours per year for non-emergency situations may not be used for peak shaving or non-emergency demand response or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [Except as provided in 40 CFR 60.4211(f)(3)(i)].

[40 CFR 60.4211(f), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

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.}

C.3. CO Emissions. Carbon monoxide (CO) emissions shall not exceed 3.5 g/kW-hr. [40 CFR 60.4202(a)(2), 40 CFR 89.112(a), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

C.4. NMHC + NO_X Emissions. Nonmethane hydrocarbons (NMHC) plus oxides of nitrogen (NO_X) emissions shall not exceed 6.4 g/kW-hr. [40 CFR 60.4202(a)(2), 40 CFR 89.112(a), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

C.5. PM Emissions. Particulate matter (PM) emissions shall not exceed 0.2 g/kW-hr. [40 CFR 60.4202(a)(2), 40 CFR 89.112(a), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

Monitoring of Operations

C.6. Non-resettable Hour Meter. The permittee of an emergency stationary compression ignition RICE that does not meet the standards applicable to non-emergency engines shall install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

Recordkeeping and Reporting Requirements

C.7. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.; and Rule 2.501, JEPB]

C.8. Records of Operating Hours. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the permittee must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR 60.4214(b), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

C.9. Recordkeeping. Records shall be kept and maintained for a minimum period of five (5) years of each notification that the permittee submitted to comply with this section, including all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted, the occurrence and duration of each malfunction of operation, all required maintenance performed on the non-resettable hour meter in **Specific Condition No. C.6**, and records of operating hours required in **Specific Condition No. C.8.** The records shall identify the date of each occurrence, measurement, maintenance, corrective action, report, or record. Records shall be provided to the Permitting Authority upon request. [40 CFR 60.4214(b) and (c), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

Other Requirements

C.10. Initial Engine Emissions Compliance with Subpart IIII. The permittee or operator of the 2007 model year and later stationary RICE emissions unit has demonstrated compliance by purchasing an engine certified to the emission standards specified in 40 CFR 60.4205(b) for the same model year and maximum engine power. [40 CFR 60.4211(c), Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

C.11. Manufacturer's Emission-related Written Instructions. If the permittee does not install, configure, operate and maintain the emergency stationary compression ignition RICE and control device according to the manufacturer's emission-related written instructions, or changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance as follows:

a. Keep a maintenance plan and records of conducted maintenance.

b. Maintain and operate the engine in a manner consistent with good air pollution control practices for minimizing emissions.

c. Conduct an initial performance test to demonstrate compliance with the applicable emission standards:

   i. Within 1 year of startup or

   ii. Within 1 year after an engine and control device is no longer installed, configured, operated and maintained in accordance with the manufacturer's emission-related written instructions or

   iii. Within 1 year after the emission-related settings are changed in a way that is not permitted by the manufacturer.

d. Conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)(3), Rule 62-204.800(8), F.A.C. and Rule 2.201, JEPB]

C.12. Continuous Compliance. The permittee of the stationary CI ICE must operate and maintain the stationary CI ICE to achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206, Rule 62-204.800, F.A.C. and Rule 2.201, JEPB]

C.13. 40 CFR 60 Subpart A, General Provisions. The permittee shall comply with the following applicable requirements of 40 CFR 60 Subpart A, General Provisions, which have been adopted by reference in Rule 62-204.800(11)(d)1., F.A.C.

General Provisions Citation	Subject of Citation
40 CFR 60.1	General applicability of the General Provisions
40 CFR 60.2	Definitions
40 CFR 60.3	Units and abbreviations
40 CFR 60.4	Address
40 CFR 60.5	Determination of construction or modification
40 CFR 60.6	Review of plans
40 CFR 60.7	Notification and Recordkeeping
40 CFR 60.8	Performance tests
40 CFR 60.9	Availability of information
40 CFR 60.10	State Authority
40 CFR 60.12	Circumvention
40 CFR 60.13	Monitoring requirements
40 CFR 60.14	Modification
40 CFR 60.15	Reconstruction
40 CFR 60.16	Priority list
40 CFR 60.17	Incorporations by reference
40 CFR 60.19	General notification and reporting requirements

[40 CFR 60.4218 & Table 8 to Subpart IIII of Part 60; Rule 62-204.800, F.A.C.; and, Rule 2.201, JEPB]

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