Vistakon
Division of Johnson & Johnson Vision Care, Inc.
Facility ID No.: 0310535
Duval County

Draft Title V Air Operation Permit Renewal

Draft Permit Project No.: 0310535-012-AV
Renewal to Title V Air Operation Permit No.: 0310535-008-AV

Permitting and Compliance Authority:
Neighborhoods Department
Environmental Quality Division
214 North Hogan Street, Fifth Floor
Jacksonville, FL 32202
Telephone: (904) 255-7100
FAX: (904) 588-0518

Title V Air Operation Permit Renewal

Draft Permit No.: 0310535-012-AV

Table of Contents

Section **Page Number**

Placard Page 1

I. Facility Information ……..... 2
- A. Facility Description
- B. Summary of Emissions Unit ID No(s). and Brief Description(s)
- C. Relevant Documents

II. Facility-wide Conditions ……..…... 3 - 6

III. Emissions Unit(s) and Conditions..... 6 - 15

EU No.	EU Description	Control Device
001	Contact Lens Manufacturing	*Air Clear (or equivalent) catalytic oxidizer with a catalyst exit temperature of approximately 630 degrees Fahrenheit – Estimated nominal airflow is 2500 scfm.

*Catalytic Oxidizer controls emissions from manufacturing line nos. 26, 27, and 28

Statement of Basis
Appendix H-1, Permit History
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix LR-1, Local Rule Index
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix SS-1, Stack Sampling Facilities
Appendix TV-6, Title V Conditions
Operation and Maintenance Plan
Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements

Permittee:
Vistakon
Division of Johnson & Johnson Vision Care, Inc.
7500 Centurion Parkway
Jacksonville, FL 32256

Draft Permit No.: 0310535-012-AV
Facility ID No.: 0310535
SIC No.: 38
Project: Contact Lens Manufacturing Facility

This permit is for the purpose of renewing Title V Air Operation Permit No. 0310535-008-AV. This facility is located at 7500 Centurion Parkway, Jacksonville, Duval County, FL 32256; UTM Coordinates: Zone 17, 447.30 km East and 3345.41 km North; Latitude: 30° 14' 21" North and Longitude: 81° 32' 52" West.

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (FS), and Florida Administrative Code (FAC) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Statement of Basis
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix TV-6, TITLE V CONDITIONS
Appendix SS-1, STACK SAMPLING FACILITIES
Operation and Maintenance Plan

Effective Date:
Renewal Application Due Date:
Expiration Date:

Neighborhoods Department
Environmental Quality Division

_____
Robert Steven Pace, P.E., Manager
Air Quality Branch

RSP/GHB

Section I. Facility Information

Subsection A. Facility/Project Description

This permit is for the purpose of renewing Title V Air Operation Permit No. 0310535-008-AV.

The existing facility consists of numerous contact lens manufacturing and research and development (R & D) lines, five natural gas fired steam boilers, each with a maximum of 8.4 x 10^6 BTU per hour input, and four 8,000 gallon isopropyl alcohol or lower vapor pressure solvents or other lower vapor pressure material storage tanks. The manufacturing lines include resin injection molding for contact lens production, hydration, packaging, printing operations and waste plastic collection and processing systems. Research and development activities are performed on site. There are three emergency reciprocating internal combustion engines (RICE) located at the facility along with a number of insignificant activities.

The facility is a major source of air pollution because it has the potential to emit 100 tons per year or more of any regulated air pollutant pursuant to Chapter 62-210, FAC, and JEPB Rule 2.301.

Based upon the Title V permit application received on April 16, 2013, this facility is not a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emission Unit (EU) ID Nos. and Brief Descriptions

EU No.	EU Description	Control Device
001	Contact Lens Manufacturing	*Air Clear (or equivalent) catalytic oxidizer with a catalyst exit temperature of approximately 630 degrees Fahrenheit – Estimated nominal airflow is 2500 scfm.

*Catalytic Oxidizer controls emissions from manufacturing line numbers 26, 27, and 28

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:
Table 1-1: Summary of Air Pollutant Standards and Terms
Table 2-1: Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History
Appendix LR-1, Local Rule Index

These documents are on file with the Permitting Authority:
Title V Air Operation Permit application received April 16, 2013
Title V Air Operation Permit No. 0310535-011-AV
Additional information requested via electronic mail May 28, 2013
Additional information received via electronic mail June 13, 2013

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. Appendix TV-6, Title V Conditions, is a part of this permit.
   Permitting note: Appendix TV-6, Title V Conditions, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.

2. General Particulate Emission Limiting Standards. General Visible Emissions Standard.
   Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, FAC, and Rule 2.1201, JEPB.
   [Rule 62-296.320(4)(b)1., FAC, and Rule 2.1101, JEPB]

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

   a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable; and
   b. The permittee shall submit to the Permitting Authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), FAC.
   [40 CFR 68]

4. 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 installation, VOC or OS without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Permitting Authority.
   [Rule 62-296.320(1), FAC, and Rule 2.1101, JEPB]

5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter emissions 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 include the following:

   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 owner or operator 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), FAC, and Rule 2.1101, JEPB]

6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is part of this permit.
   [Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), FAC, and Rules 2.501 and 2.1401, JEPB]

7. Permittee shall notify the Permitting Authority fifteen (15) days prior to the date of each formal compliance test conducted for an emissions unit.
   [Rule 62-297.310(7)(a)9., FAC, and Rule 2.1201, JEPB]

8. Stack sampling facilities and control equipment shall be provided with a method of access that is safe and readily accessible.
   [Rule 62-297.310(6), FAC, and Rule 2.1201, JEPB]

9. Testing of emissions shall be conducted with the emissions unit operating at permitted capacity in accordance with the approved Test Plan on file with the Permitting Authority, Appendix TP. Permitted capacity is defined as 90-100 percent of the maximum operating rate (maximum glass pull rate and maximum process weight rate) allowed by the permit. If it is impracticable to test at permitted capacity, then emissions units may be tested at less capacity; in this case subsequent emissions unit operation is limited to 110 percent of the test load (tested glass pull rate and tested process weight rate) until a new test is conducted. Once the emissions unit is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.
   [Rule 62-297.310(2), FAC, and Rule 2.1201, JEPB]

10. Copies of the test report(s) shall be filed with the Permitting Authority within forty-five (45) days of completion of testing.
    [Rule 62-297.310(8)(b), FAC, and Rule 2.1201, JEPB]

11. 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, FAC and Rule 2.501, JEPB]

12. The permittee shall submit all compliance related notifications and reports required of this permit to:

Neighborhoods Department
Environmental Quality Division
Ed Ball Building, 214 N. Hogan Street, 5th Floor
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 588-0518

13. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air & EPCRA Enforcement Branch, Air Enforcement Section
61 Forsyth Street
Atlanta, GA 30303-8960
Telephone: (404) 562-9155
Fax: (404) 562-9163

14. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., FAC, shall be submitted to the Permitting Authority and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), FAC. {Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of Appendix TV-6, Title V Conditions)}
[Rules 62-213.440(3) and 62-213.900, FAC, and Rule 2.501, JEPB]

15. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), FAC., and Rule 2.501, JEPB]

16. Excess emissions resulting from startup, shutdown, or malfunction of any emission unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Permitting Authority for longer duration. 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. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Permitting Authority in accordance with Rule 62-4.130, FAC and Rule 2.1401, JEPB. A full written report on the malfunctions shall be submitted to the Permitting Authority in a quarterly report, if requested by the Permitting Authority.
[Rule 62-210.700(1), (4), and (6), FAC, and Rule 2.201, JEPB]

17. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements shall be clearly identified in such reports. The permittee shall report in accordance with the requirements of Rule 62-210.700(6), FAC, Rule 62-4.130, FAC, Rule 2.201, JEPB, and Rule 2.1401, JEPB, deviations from permit requirements, including those attributable to upset conditions as defined in the permit. Reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), FAC, and Rule 2.501, JEPB. Unless otherwise specified in **a permit, rule, or order;** reports shall cover the period of January through June (report due on or before September 1) and July through December (report due on or before March 1).
[Rule 62-213.440(1)(b)3., FAC, and Rule 2.501, JEPB]

18. Annual Operation Report. Permittee shall submit an annual operating report to the Permitting Authority for this (these) emission unit(s) on the form(s) supplied for each calendar year by April 1 of the following year.
[Rule 62-210.370(3), FAC, and Rule 2.301, JEPB]

19. 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, FAC and Rule 2.501, JEPB]

20. Notification of Startup. The owners or operator of any emissions unit or facility which has a valid air operation permit which has been shut down more than one year, shall notify the Permitting Authority in writing of the intent to start up such emissions unit or facility, a minimum of 60 days prior to the intended startup date.

a. The notification shall include information as to the startup date, anticipated emission rates or pollutants released, changes to processes or control devices which will result in changes to emission rates, and any other conditions which may differ from the valid outstanding operation permit.
b. If, due to an emergency, a startup date is not known 60 days prior thereto, the owner shall notify the Permitting Authority as soon as possible after the date of such startup is ascertained.
[Rule 62-210.300(5), F.A.C. and Rule 2.301, JEPB]

21. Permit Renewal. For purposes of a permit renewal, a timely application is one that is submitted 225 days before the expiration of a permit that expires on or after June 1, 2009.
[Rule 62-213.420(1)(a)2., F.A.C. and Rule 2.501, JEPB]

The following Facility-wide conditions are not federally enforceable:

22. General Pollutant Emission Limiting Standards. 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), FAC, and Rule 2.1101, JEPB]

23. The facility shall be subject to the City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].

24. The facility shall be subject to JEPB Rule 2, Parts I through VII, and Parts IX through XIV.

Section III. Emission Units and Conditions

Emission Unit No. 001- Contact Lens Manufacturing

Emission Unit Description: Contact lenses are produced on numerous manufacturing lines consisting of polystyrene injection molding equipment. Other activities included in the manufacturing process are waste plastic collection system, lens packaging, printing operations and trial runs of experimental monomers. The operation includes five existing 8.4 x 10^6 Btu per hour natural gas boilers, four approximately 8,000 gallon capacity tanks storing isopropyl alcohol or lower vapor pressure solvents or other lower vapor pressure material and:

A collection system and catalytic oxidizer for the capture and destruction of volatile organic compounds (VOC) from manufacturing line nos. 26, 27, and 28 (formerly numbered 18, 19, and 20 respectively).

Control Device(s) Description: **Particulate matter** emissions from the waste plastic and packaging system are controlled by two dust collectors as follows:

National Turbine 48X86 Dual Cartridge Pulse Jet Unit - Estimated nominal airflow is 5700 dscfm

Hosokawa Mikropul Reverse Air Flow 3GT121S-8C - Estimated nominal airflow is 7500 dscfm

VOC emissions from manufacturing line nos. 26, 27, and 28 are controlled as follows:

Air Clear (or equivalent) catalytic oxidizer with a catalyst exit temperature of approximately 630 degrees Fahrenheit - Estimated nominal airflow is 2500 scfm.

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. 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 Permitting Authority. 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, Rule 62-296.320(1)(a), FAC, and Rule 2.1101, JEPB]

3. Unconfined particulate matter emissions from materials handling operations shall be controlled by using the following reasonable precautions.
   - Use of hoods, fans, filters, and similar equipment to contain, capture, and vent particulate matter.
   - Enclosures or covering of conveyor systems.

   [Rule 62-296.320(4)(c)2., FAC, and Rule 2.1101, JEPB]

4. General Pollutant Emission Limiting Standards. 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), FAC, and Rule 2.1101, JEPB]

5. The VOC collection system and catalytic oxidizer shall be operated in accordance with the manufacturer's recommendation. Due to the ongoing material substitution program being implemented at the facility which lowers VOC emissions, the manufacturing lines 26, 27 and 28 may continue to operate when the catalytic oxidizer is not operating; and, compliance with the permitted VOC emissions limitations during these periods shall be demonstrated in accordance with the recordkeeping requirements outlined in Specific Condition Nos. 7 and 8. At such time when the catalytic oxidizer is to be permanently removed from service, the Permitting Authority shall be notified in writing prior to removal.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

Test Methods and Procedures

6. VOC testing shall be conducted on the inlet and outlet to the catalytic oxidizer controlling collected VOC emissions from manufacturing line nos. 26, 27, and 28. Testing shall be conducted in accordance with Environmental Protection Agency (EPA) Reference Method (RM) 25A. Testing shall be conducted not later than 270 days prior to the permit expiration date.
[Rule 62-297.310(4)(a), FAC, and Rule 2.1201, JEPB]

Recordkeeping and Reporting Requirements

7. 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) of catalytic oxidizer No. 1 usage. Daily records of the catalytic oxidizer downtime and reason shall be maintained.

Records shall be maintained for a minimum of five (5) years and made available to the Permitting Authority upon request.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

8. Quarterly reports shall be submitted to the Permitting Authority describing VOC/HAP contents, VOC/HAP emissions (monthly basis), total usage (hours) of catalytic oxidizer No. 1 (monthly basis). The quarterly reports shall be submitted by the 30th day of the following month after the end of each quarter (January - March, April - June, July - September, and October - December). The final report, which is due by the 30th of January for the quarter of October - December, shall include a synopsis of the preceding year.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

9. An Operation and Maintenance Plan is attached to and made a part of this permit for the 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.
[Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

Emissions Unit No. 002 – Diesel Fire Pump

Emissions Unit Description – Diesel-fired spark ignition (SI) fire pump, manufactured by Cummins Engine Co., Inc. (Serial No. 45018494)

Description of Engine	Year Built	Model Number	Horsepower	Rule Applicability
Cummins Fire Pump	1994	6BTA5.9-F1	208 HP	40 CFR Part 63, Subpart ZZZZ

{**Permitting Note:** This permit section addresses existing, emergency spark ignition (SI) reciprocating internal combustion engines (RICE) located at an area source of HAP emissions.}

1. ***40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*** *and* ***Subpart A, General Provisions*** shall apply to the engines of this emissions unit.
[40 CFR 63.6585, Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

2. The permittee shall comply with the following operating limitations no later than October 19, 2013.
[40 CFR 63.6595(a)(1), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Essential Potential to Emit (PTE) Parameters

3. The permittee shall operate and maintain the emergency stationary RICE according to the following:

(a) There is no time limit on the use of emergency stationary RICE in emergency situations.
(b) 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.

(ii) Emergency demand response as outlined in 40 CFR 63.6640(f)(2)(ii).

(iii) Periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(c) 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) 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)(i) and (ii)].

[40 CFR 63.6640(f), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

4. The permittee shall minimize the engine's time spent at idle during startup and minimize the 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), FAC and Rule 2.201, JEPB]

<u>Emission Limitations and Operating Requirements</u>

5. The permittee shall comply with the following requirements as outlined in 40 CFR 63, Subpart ZZZZ, Table 2d.
   a. 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. 6 below.
   b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
   c. 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), FAC and Rule 2.201, JEPB]

6. 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 in Specific Condition No. 5 for this emissions unit. The analysis program shall at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid 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 owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 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 owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
[40 CFR 63.6625(j), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

7. The permittee shall operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow their own maintenance plan which shall provide, to the extent practicable, for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions.
[40 CFR 63.6640(a), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Monitoring Requirements

8. The permittee shall install a non-resettable hour meter if one is not already installed.
[40 CFR 63.6625(f), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Compliance Requirements

9. Each unit shall be in compliance with the operating standards in this section at all times.
[40 CFR 63.6605(a), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

10. Operation and Maintenance of Equipment. At all times the permittee shall operate and maintain the 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), FAC and Rule 2.201, JEPB]

Recordkeeping and Reporting Requirements

11. The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) was operated and maintained according to their own maintenance plan.
[40 CFR 63.6655(e), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

12. The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall 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. If the engines are used for demand response operation, the permittee shall keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.
[40 CFR 63.6655(f), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

13. The records in Specific Condition Nos. 11 and 12 for this emissions unit shall be kept and maintained for a minimum period of five (5) years following 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), FAC and Rule 2.201, JEPB]

Emissions Unit No. 003 – Emergency Diesel Generator (2922 bhp)

Emissions Unit Description – Cummins diesel generator Model #: (DQKAB, QSK60 Series)

Description of Engine	Date Built	Displacement/ Horsepower	Rule Applicability
Cummins diesel engine	2012	3.75 l/cylinder & 2922 bhp	40 CFR Part 60, Subpart IIII

{**Permitting Note:** This permit section addresses a new, emergency stationary compression ignition (CI) reciprocating internal combustion engine (RICE) manufactured after June 12, 2006 with an engine displacement of less than 30 liters per cylinder located at an area source of HAP emissions.}

1. This engine is subject to 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines and 40 CFR 60, Subpart A, General Provisions.
   [40 CFR 63.6590(c), Rule 62-204.800, FAC and Rule 2.201, JEPB]

Essential Potential to Emit (PTE) Parameters

2. 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:

   a. The sulfur content for nonroad diesel fuel shall not exceed 15 ppm.
   b. 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, FAC and Rule 2.201, JEPB]

3. The permittee shall operate and maintain the emergency stationary RICE according to the following:

   (a) There is no time limit on the use of emergency stationary RICE in emergency situations.
   (b) 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.
      (ii) Emergency demand response as outlined in 40 CFR 60.4211(f)(2)(ii).
      (iii) Periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
   (c) The emergency stationary RICE may be operated up to 50 hours per calendar 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) 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), FAC and Rule 2.201, JEPB]

Emission Limitations and Operating Requirements

4. The engine in this emissions unit shall not exceed the following standards of non-methane (NM) hydrocarbons + nitrogen oxides (NO_X), carbon monoxide (CO), and particulate matter (PM). The owner or operator shall comply with these emission standards over the entire life of the engine.

Engine	NM Hydrocarbons + NO_x	CO	PM
Cummins diesel engine	6.4 g/kW-hr	3.5 g/kW-hr	0.20 g/kW-hr

[40 CFR 60.4202(a)(2), 40 CFR 89.112(a), Rule 62-204.800, FAC and Rule 2.201, JEPB]

Operation and Maintenance

5. The owner or operator 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, FAC and Rule 2.201, JEPB]

6. The owner or operator shall only change those emission-related settings that are permitted by the manufacturer.
   [40CFR 60.4211(a)(2), Rule 62-204.800, FAC and Rule 2.201, JEPB]

Monitoring Requirements

7. The owner or operator 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, FAC and Rule 2.201, JEPB]

8. If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in § 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.
   [40 CFR 60.4209(b), Rule 62-204.800, FAC and Rule 2.201, JEPB]

Compliance Requirements

9. The owner or operator of the 2007 model year and later stationary RICE of this 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, FAC and Rule 2.201, JEPB]

10. If the owner or operator 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 owner or operator 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), FAC and Rule 2.201, JEPB]

Recordkeeping and Reporting Requirements

11. Records shall be maintained for the hours of operation of the engines for emergency and non-emergency engine usage, including maintenance checks and readiness testing. This shall include all hours of operation recorded through the non-resettable hour meter. The owner or operator shall record the time of operation of

the engine and the reason the engine was in operation. These records shall be kept and maintained for a minimum period of five (5) years. Records shall be provided to the Permitting Authority upon request.
[40 CFR 60.4214(b), Rule 62-4.070(3), FAC, Rule 62-204.800, FAC, Rule 2.1401, JEPB and Rule 2.201, JEPB]

12. If the stationary RICE is equipped with a diesel particulate filter, the owner or operator shall keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. These records shall be kept and maintained for a minimum period of five (5) years. Records shall be provided to the Permitting Authority upon request.
[40 CFR 60.4214(c), Rule 62-4.070(3), FAC, Rule 62-204.800(8), FAC, Rule 2.1401, JEPB and Rule 2.201, JEPB]

Emissions Unit No. 004 – Emergency Diesel Generator (535 bhp)

Emissions Unit Description - One emergency diesel engine generator (Model No.: NTA-855-G3) manufactured by Cummins Brazil.

Description of Engine	Year Built	Horsepower	Rule Applicability
Emergency Diesel Generator	2003	535 HP	40 CFR Part 63, Subpart ZZZZ

{Permitting Note: This permit section addresses an existing, emergency stationary compression ignition (CI) reciprocating internal combustion engine (RICE) constructed prior to June 12, 2006 with a site rating greater than 500 brake horsepower (HP) located at an area source of HAP emissions.}

2. 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and 40 CFR 63, Subpart A, General Provisions shall apply to this emissions unit.
[40 CFR 63.6585, Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

2. The permittee shall comply with the following operating limitations no later than May 3, 2013.
[40 CFR 63.6595(a), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Essential Potential to Emit (PTE) Parameters

3. The permittee shall operate and maintain the emergency stationary RICE according to the following:

(a) There is no time limit on the use of emergency stationary RICE in emergency situations.
(b) 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.
  (ii) Emergency demand response as outlined in 40 CFR 63.6640(f)(2)(ii).
  (iii) Periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
(c) 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) 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)(i) and (ii)].
[40 CFR 63.6640(f), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Emission Limitations and Operating Requirements

5. The owner or operator shall comply with the following requirements as outlined in 40 CFR 63, Subpart ZZZZ, Table 2d.

   d. 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. 6 for this emissions unit below.
   e. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.
   f. 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), FAC and Rule 2.201, JEPB]

6. The owner or operator 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 in Specific Condition No. 5 for this emissions unit. 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 owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator shall change the oil within 2 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 owner or operator shall change the oil within 2 days or before commencing operation, whichever is later. The owner or operator shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the engine.
   [40 CFR 63.6625(i), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

7. The owner or operator shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop and follow their own maintenance plan which shall provide, to the extent practicable, for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions.
   [40 CFR 63.6625(e), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

8. Beginning January 1, 2015, if the stationary RICE operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in § 63.6640(f)(4)(ii), you 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), FAC and Rule 2.201, JEPB]

Monitoring Requirements

9. The owner or operator shall install a non-resettable hour meter if one is not already installed.
   [40 CFR 63.6625(f), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Compliance Requirements

10. Operation and Maintenance of Equipment. At all times the owner or operator shall operate and maintain the 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, Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Recordkeeping and Reporting Requirements

11. The owner or operator shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) was operated and maintained according to their own maintenance plan.
[40 CFR 63.6655(e), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

12. The owner or operator shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator shall 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. If the engines are used for demand response operation, the owner or operator shall keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.
[40 CFR 63.6655(f), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

13. The records in Specific Condition Nos. 11 and 12 for this emissions unit shall be kept and maintained for a minimum period of five (5) years following 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), FAC and Rule 2.201, JEPB]

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