United States Marine Corps
Marine Corps Support Facility - Blount Island
Facility ID No.: 0310099
Duval County

Title V Air Operation Permit Revision

PROPOSED Permit No.: 0310099-015-AV
Revision of Title V Air Operation Permit No.: 0310099-013-AV

<u>Permitting & Compliance Authority:</u>

Neighborhoods Department
Environmental Quality Division
Ed Ball Building
214 North Hogan Street, Suite 500
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 588-0518

TITLE V AIR OPERATION PERMIT REVISION

PROPOSED Title V Air Operation Permit No.: 03100099-015-AV
Revision of Permit No.: 0310099-013-AV

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Permittee:
United States Marine Corps
Marine Corps Support Facility – Blount Island
5880 Channel View Blvd.
Jacksonville, FL 32226-3404

PROPOSED Permit No.: 0310099-015-AV
Facility ID No.: 0310099
SIC Nos.: 97
Project: Title V Air Operation Permit Revision

This permit is for the purpose of revising Title V Operation Permit No. 0310099-013-AV. This facility is located at 5880 Channel View Blvd., Jacksonville, Duval County, FL 32226-3404; UTM Coordinates: Zone 17, 450.00 km East and 3363.3 km North; Latitude: 30° 24' 8" North and Longitude: 81° 31' 14" West.

This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, Florida Administrative Code (FAC). 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
Operation and Maintenance Plans
Appendix I-1, List of Insignificant Emission Units and/or Activities
APPENDIX TV-6, TITLE V CONDITIONS
APPENDIX SS-1, STACK SAMPLING FACILITIES
Attachment 3, Precautions to Prevent Emissions of Unconfined PM

Initial Effective Date:	**May 30, 2012**
Revision Effective Date:	
Renewal Application Due Date:	**October 17, 2016**
Expiration Date:	**May 30, 2017**

Neighborhoods Department
Environmental Quality Division

_____
Vincent A. Seibold, P.E.
Chief

VAS/HDS

Section I. Facility Information

Subsection A. Facility and Project Description.

This Title V facility is a freight shipping container, military combat equipment, and aircraft ground support equipment maintenance facility. The facility operations include abrasive blasting and surface coating operations.

Also included in this permit are miscellaneous insignificant emissions units and/or activities.

This permit is for the purpose of revising Title V Air Operation Permit No. 0310099-013-AV by incorporating the terms and conditions of Air Construction Permit 0310099-014-AC. This will add Emission Unit No. 010, a concrete batch plant, to this revision.

This facility is a Title V major source of air pollution because the potential emissions of any one regulated air pollutant is 100 tons per year or more and/or the potential emissions of any one Hazardous Air Pollutant (HAP) is 10 tons per year or more or 25 tons per year or more for any combination of HAPs, pursuant to Chapter 62-210, FAC, and Rule 2.301, Jacksonville Environmental Protection Board (JEPB).

Based on the Title V Air Operation Permit Renewal application received November 7, 2012, this facility is a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

EU No.	EU Description	Control Device
001	Abrasive Blast Booth	Wheelabrator, Model 36 WCC High Energy Pulse Cleaned Cartridge Dust Collector and Wheelabrator-Frye, Model 704C Dust Collector (ducted into the Mechanical Room)
005	Abrasive Blast Booth	Donaldson Torit Downflo Oval (DFO) Cartridge Dust Collector 3-18
007	Spray Coating Booths	Spray Coating Booth No. 1 - Dry filter system ducted to three (3) vents; Spray Coating Booth No. 3 - Dry filter system; Spray Coating Booths Nos. 2 and 4 are uncontrolled.
009	Emergency Diesel Engine Generators	
010	Concrete Batch Plant	RESCON Baghouse Dust Collector, Model No. LOGO 10
011	Emergency Propane Engine Generators	
012	Emergency Propane Engine Generator B-390	

Note: Please reference the Permit No., Facility ID No., and appropriate Emissions Unit ID Nos. 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 No. 0310099-013-AV
Title V Air Operation Construction Permit No. 0310099-014-AV
Title V Air Operation Permit Revision Application received November 7, 2012

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. 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]

4. 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. The permittee shall take reasonable precautions to prevent unconfined particulate matter emissions using one or more of the methods described and submitted by the permittee in **Attachment 3** of this permit.
   [Rule 62-296.320(4)(c)1 & 3, FAC, and Rule 2.1101, JEPB]

5. 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 2.301, JEPB]

6. 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]

7. Testing of emissions shall be conducted with the Emissions Unit operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating 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 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]

8. 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]

9. 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]

10. <u>Prevention of Accidental Releases (Section 112(r) of CAA)</u>.

    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]

11. <u>Annual Operation Report.</u> 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]

12. <u>Permit Renewal</u>. 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]

13. 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]

14. 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]

15. 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]

16. 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]

17. 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]

18. 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]

19. 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

20. 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 62-4.301, FAC, Rule 2.301, 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]

21. 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, Suite 500
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 588-0518

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. Emissions Unit(s) and Conditions.

Emissions Unit No. 001 - Abrasive Blast Booth

Emissions Unit Description:	Removal of paint from refrigerated/non-refrigerated freight containers and principal end items such as chassis loading systems, front-end loaders, etc. The abrasive blast media utilized is aluminum oxide and steel shot. Aluminum oxide blast media is used on aluminum substrate and steel shot is used on steel substrate. Compliance Assurance Monitoring (CAM) does not apply.
Control Device(s):	Wheelabrator, Model 36 WCC High Energy Pulse Cleaned Cartridge Dust Collector Wheelabrator-Frye, Model 704C Dust Collector (ducted into the Mechanical Room)

Essential Potential to Emit (PTE) Parameters

1. The nominal volumetric flow rate from this emissions unit is 88,500 cubic feet per minute (cfm).
[Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]

Emission Limitations and Standards

2. Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]**;** **Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5),FAC, and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] shall apply to this emission unit.

3. The hours of operation for this emissions unit shall not exceed 4,160 hours per year (hrs/yr).
[Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

4. The maximum hourly abrasive blast media usage shall not exceed 18.0 tons/hour.
[Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]

5. Particulate Matter (PM) emissions shall not exceed 0.03 grains per dry standard cubic feet [22.76 pounds per hour (lbs/hr) and 47.34 tons per year (tons/yr)].
[Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

6. Visible emissions (VE) shall not exceed 5 percent opacity.
[Rule 62-296.712(2), FAC, and Rule 2.1101, JEPB]

Test Methods and Procedures

7. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA Reference Method (RM) 5 (as described in 40 CFR 60, Appendix A) for particulate matter.
[Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

8. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.712(3), FAC, and Rule 2.1101, JEPB]

9. VE shall be tested annually from the date of December 1, 2011.
[Rule 62-213.440(1)(b)1.b., FAC, Rule 62-297.310(7)(a)4.a., FAC, Rule 2.501, JEPB, and Rule 2.1201, JEPB]

Reporting and Recordkeeping Procedures

10. An Operation and Maintenance Plan is attached and shall be part of this permit. 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 two (2) years.
[Rule 62-296.700(6)(e), FAC, and Rule 2.1101, JEPB]

Emissions Unit No. 005 - Abrasive Blast Booth

Emissions Unit Description:	Removal of paint from miscellaneous aircraft ground support equipment parts. The abrasive blast media utilized is aluminum oxide and steel shot.
Control Device(s):	Donaldson Torit Downflo Oval (DFO) Cartridge Dust Collector 3-18

Essential Potential to Emit (PTE) Parameters

1. The nominal volumetric flow rate from this emissions unit is 10, 387 cubic feet per minute.
   [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]

Emission Limitations and Standards

2. Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), FAC, and Rule 2.1101, JEPB]**; Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC, and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), FAC, and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC, and Rule 2.1101, JEPB] shall apply to this emission unit.

3. The maximum process rate of abrasive consumed shall not exceed 0.077 tons per hour and 80.0 tons per year.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

4. The hours of operation for this emissions unit shall not exceed 1,040 hours per year.
   [Rule 62-210.200(PTE), FAC, and Rule 2.301, JEPB]

5. Particulate Matter emissions shall not exceed 0.03 grains per dry standard cubic feet [2.67 pounds per hour and 1.39 tons per year].
   [Rule 62-296.712(2), FAC, and 2.1101, JEPB]

6. Visible emissions (VE) shall not exceed 5 percent opacity.
   [Rule 62-296.712(2), FAC, and 2.1101, JEPB]

Test Methods and Procedures

7. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA Reference Method (RM) 5 (as described in 40 CFR 60, Appendix A) for particulate matter. The minimum sample volume shall be 30 dry standard cubic feet.
   [Rule 62-296.712(3), FAC, and 2.1101, JEPB]

8. Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity. VE testing shall be conducted for a minimum period of 30 minutes.
   [Rule 62-296.712(3), FAC, Rule 62-297.310(4)(a)2., FAC, Rule 2.1101, JEPB and 2.1201, JEPB]

9. VE shall be tested annually from the date of December 1, 2011.
   [Rule 62-213.440(1)(b)1.b., FAC, Rule 62-297.310(7)(a)4.a., FAC Rule 2.501, JEPB, and Rule 2.1201, JEPB]

Reporting and Recordkeeping Procedures

10. An Operation and Maintenance Plan shall is attached and shall be part of this permit. 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 two (2) years.
    [Rule 62-296.700(6)(e), FAC, and Rule 2.1101, JEPB]

Emissions Unit No. 007 – Spray Coating Booths

Emissions Unit Description: Four (4) spray coating booths for the application of coatings to freight containers (topcoat and primer) and principal end items such as 5-ton trucks, tanks, chassis loading systems, aircraft ground support equipment, and miscellaneous related parts. In addition, the 4 booths can be used to spray foam to produce enclosures for aircraft ground support equipment.

Control Device: Spray Coating Booth No. 1 has a dry filter system ducted to three (3) vents. Spray Coating Booth No. 3 has a dry filter system. Spray Coating Booths Nos. 2 and 4 are uncontrolled.

Essential Potential to Emit (PTE) Parameters

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

Emission Limitations and Standards

2. The maximum allowable VOC emissions shall not exceed 196.0 tons/yr.
   [Air Construction Permit No. 0310099-007-AC]

Test Methods and Procedures

3. Testing for demonstration of compliance shall be performed in accordance with EPA RM 24 (as described in 40 CFR 60, Appendix A) for VOC. Manufacturer's data sheets with VOC contents may be substituted with the approval of the Permitting Authority.
   [Rule 62-296.513(4), FAC and Rule 2.1101, JEPB]

Recordkeeping and Reporting Requirements

4. Records shall be maintained on a monthly basis for the following:

   a. Coatings usage
   b. VOC and Hazardous Air Pollutant (HAP) content (lbs/gal) of coatings as applied
   c. Solvent / thinner usage
   d. VOC and HAP content of solvent / thinner
   e. VOC and HAP emissions

   Records shall be maintained for a minimum of five (5) years and made available to the Permitting Authority upon request.
   [Rule 62-213.440(1)(b), FAC, and Rule 2.501, JEPB]

5. Quarterly reports shall be submitted to the Permitting Authority describing the usage of solvents, coatings, and VOC/HAP contents and emissions. 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 62-213.440(1)(b), FAC, and Rule 2.501, JEPB]

Emissions Unit No. 009 – Emergency Diesel Engine Generators

Emissions Unit Description: Two Cummins emergency diesel generators (front gate location - Model No. 125DSGAB; back gate location - Model No. 175DSHAB) and two Generac emergency diesel generators (Building 104 - Model No. 7147820100; Building 100 - Model No. 7192580400.

Description of Engine	Year Built	Displacement/ Horsepower	Rule Applicability
175 kW Cummins Generator (Front Gate)	1/07/2009	1.48 liters/cylinder & 364 HP	40 CFR Part 60, Subpart IIII
125 kW Cummins Generator (Back Gate)	1/08/2009	1.12 liters/cylinder & 324 HP	40 CFR Part 60, Subpart IIII
130 kW Generac Emergency Generator	9/11/2006	1.25 liters/cylinder & 195 HP	40 CFR Part 60, Subpart IIII
400 kW Generac Emergency Generator	July 2006	2.17 liters/cylinder & 598 HP	40 CFR Part 60, Subpart IIII

{**Permitting Note:** This permit section addresses new, emergency stationary compression ignition (CI) reciprocating internal combustion engines (RICE) manufactured after April 1, 2006 with an engine displacement of less than 10 liters per cylinder located at a major source of HAP emissions.}

1. These engines are 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(8), 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(8), FAC and Rule 2.201, JEPB]

3. The owner or operator 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 the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or Local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.
   (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 year provided for maintenance checks and readiness testing.

(d) The 50 hours per year for non-emergency situations may not be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.
[40 CFR 60.4211(f), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

Emission Limitations and Operating Requirements

4. The engines in this emissions unit shall not exceed the following standards of non-methane (NM) hydrocarbons + nitrogen oxides (NO_X), hydrocarbons, NOx, 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	Hydrocarbons	NOx	CO	PM
175 kW Cummins Generator (Front Gate)	4.0 g/kW-hr	_____	_____	3.5 g/kW-hr	0.20 g/kW-hr
125 kW Cummins Generator (Back Gate)	4.0 g/kW-hr	_____	_____	5.0 g/kW-hr	0.30 g/kW-hr
130 kW Generac Generator	_____	1.3 g/kW-hr	9.2 g/kW-hr	11.4 g/kW-hr	0.54 g/kW-hr
400 kW Generac Generator	_____	1.3 g/kW-hr	9.2 g/kW-hr	11.4 g/kW-hr	0.54 g/kW-hr

[40 CFR 60.4205(a), 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2), 40 CFR 60.4206, Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

Operation and Maintenance

5. The owner or operator shall operate the stationary combustion ignition RICE and control devices according to the manufacturer's emission-related written instructions.
[40 CFR 60.4211(a)(1), Rule 62-204.800(8), 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(8), FAC and Rule 2.201, JEPB]

Monitoring Requirements

7. The owner or operator of an emergency stationary combustion 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(8), FAC and Rule 2.201, JEPB]

Compliance Requirements

8. The owner or operator of the pre-2007 model year stationary RICE of this emissions unit shall demonstrate compliance according to one of the methods specified below:

a. Purchase an engine certified according to 40 CFR Part 89 or Part 94, as applicable, for the same model year and maximum engine power.
b. Keep records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in 40 CFR 60.4212, as applicable.

c. Keep records of engine manufacturer data indicating compliance with the standards.
d. Keep records of control device vendor data indicating compliance with the standards.
e. Conduct an initial performance test to demonstrate compliance with emission standards according to the requirements specified in 40 CFR 40.4212, as applicable.

[40 CFR 60.4211(b), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

9. The owner or operator of the 2007 model year and later stationary RICE of this emissions unit has demonstrated compliance by purchasing engines certified to the emission standards specified in 40 CFR 60.4205(b) for the same model year and maximum engine power.

10. If the owner or operator does not install, configure, operate and maintain the emergency stationary combustion 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.

[40 CFR 60.4211(g)(2), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

<u>Recordkeeping and Reporting Requirements</u>

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.
[Rule 62-4.070(3), FAC, and Rule 2.1401, 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]

EU No. 010--Concrete Batch Plant

EU Description: Concrete Batch Plant for the production of concrete

PM Control Device: RESCON Baghouse dust collector, Model No. LOGO 10

Essential Potential to Emit (PTE) Parameters

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

Emission Limitations and Standards

2. Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), FAC and Rule 2.1101, JEPB]**; Maximum Allowable Emission Rates** [Rule 62-296.700(4), FAC and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), FAC and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), FAC and Rule 2.1101, JEPB] shall apply to this emission unit.

3. Chapter 62-296 Stationary Sources - Emissions Standards, Rule 62-296.414, FAC, Concrete Batching Plants, and Rule 2.1101, JEPB shall apply to this emission unit.

4. The maximum annual production rate shall not exceed 55,000 cubic yards of concrete.
   [Rule 62-296.700(4), FAC and Rule 2.1101, JEPB]

5. Each dust collector exhaust point shall be tested annually for compliance with the visible emission limiting standard.
   [Rule 62-297.310(7)(a), FAC, and Rule 2.1201, JEPB]

6. Each dust collector exhaust point shall be tested for a minimum of 30 minutes or, if the operation is normally completed within less than 30 minutes and does not recur within that time, the test shall last for the length of the loading operation.
   [Rule 62-297.310(4)(a)2.a., FAC, and Rule 2.1201, JEPB]

7. Emissions from silos, weigh hoppers (batchers), and other enclosed storage and conveying equipment shall be controlled to the extent necessary to limit visible emissions to 5 percent opacity.
   [Rule 62-296.414(1), FAC and Rule 2.1101, JEPB]

8. The owner or operator shall take reasonable precautions to control unconfined emissions from hoppers, storage and conveying equipment, conveyor drop points, truck loading and unloading, roads, parking areas, stock piles, and yards. The following shall constitute reasonable precautions:

   a. Management of roads, parking areas, stock piles, and yards, which shall include one or more of the following:

      (1) Paving and maintenance of roads, parking areas, and yards.

      (2) Application of water or environmentally safe dust-suppressant chemicals when necessary to control emissions.

      (3) Removal of particulate matter from roads and other paved areas under control of the owner or operator to mitigate reentrainment, and from building or work areas to reduce airborne particulate matter.

      (4) Reduction of stock pile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles.

   b. Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.
      [Rule 62-296.414(2), FAC and Rule 2.1101, JEPB]

Test Methods and Procedures

9. Testing for demonstration of compliance shall be performed annually from the date of October 22, 2012 in accordance with EPA Reference Method (RM) 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.414(3)(a), FAC, and Rule 2.1101, JEPB]

10. Test procedures shall meet all applicable requirements of Rule 62-297.310, FAC.
[Rule 62-296.414(3)(b), FAC and Rule 2.1101, JEPB]

11. Visible emissions tests of silo dust collector exhaust points shall be conducted while loading the silo at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice. If emissions from the weigh hopper (batcher) operation are also controlled by the silo dust collector, then the batching operation shall be in operation during the visible emissions test. The batching rate during the emissions test shall be representative of the normal batching rate and duration. Each test report shall state the actual silo loading rate during emissions testing and, if applicable, whether or not batching occurred during emissions testing.
[Rule 62-296.414(3)(c), FAC, and Rule 2.1101, JEPB]

12. If emissions from the weigh hopper (batcher) operation are controlled by a dust collector which is separate from the silo dust collector, visible emissions tests of the weigh hopper (batcher) dust collector exhaust point shall be conducted while batching at a rate that is representative of the normal batching rate and duration. Each test report shall state the actual batching rate during emissions testing.
[Rule 62-296.414(3)(d), FAC, and Rule 2.1101, JEPB]

Recordkeeping and Reporting Requirements

13. An Operation and Maintenance Plan shall be attached to and shall be part of this permit. 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 two (2) years.
[Rule 62-296.700(6)(e), FAC, and Rule 2.1101, JEPB]

Emissions Unit No. 011 – Emergency Propane Engine Generators

Emissions Unit Description: Two (2) emergency generators fueled with propane. The unit located near Building 350 is manufactured by Kohler, Model No. 30R2272. The unit located near Building 450 is manufactured by Generac, Model No. QF03524KVAN.

Description of Engine	Year Built	Displacement/ Horsepower	Rule Applicability
30 kW Kohler Emergency Generator	Prior to 2005	< 10 liters/cylinder & 40 HP	40 CFR Part 63, Subpart ZZZZ
30 kW Generac Emergency Generator	Prior to 2005	2.4 liters/cylinder & 168 HP	40 CFR Part 63, Subpart ZZZZ

{**Permitting Note:** This permit section addresses existing, emergency stationary spark ignition (SI) reciprocating internal combustion engines (RICE) constructed prior to June 12, 2006 with a site rating of less than 500 brake horsepower (HP) and with an engine displacement of less than 10 liters per cylinder located at a major source of HAP emissions.}

1. 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 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), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

Essential Potential to Emit (PTE) Parameters

3. The owner or operator 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 the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or Local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.
   (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 year provided for maintenance checks and readiness testing.
   (d) The 50 hours per year for non-emergency situations may not be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.
   [40 CFR 63.6640(f), Rule 62-204.800(11), FAC and Rule 2.201, JEPB]

4. The owner or operator 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]

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 2c.

   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.
   c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
   [40 CFR 63.6602, 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 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 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

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 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(b), 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]

Emissions Unit No. 012 – Emergency Propane Engine Generator B-390

Emissions Unit Description: One (1) emergency generator fueled with propane located in Building 390, manufactured by Cummins, Model No. 30GGMC. The engine is a spark ignition, 4-stroke, rich burn engine.

Description of Engine	Year Built	Displacement/ Horsepower	Rule Applicability
30 kW Cummins Emergency Generator	10/10/2011	40 HP	40 CFR Part 60, Subpart JJJJ

{**Permitting Note:** This permit section addresses a new, emergency stationary spark ignition (SI) reciprocating internal combustion engine (RICE) constructed after January 1, 2009 with a site rating of more than 25 brake horsepower (HP) located at a major source of HAP emissions.}

1. These engines are subject to 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition (SI) Internal Combustion Engines (ICE) and 40 CFR 60, Subpart A, General Provisions.
[40 CFR 63.6590(c), 40 CFR 60.4230(a)(2)(ii), Rule 62-204.800, FAC and Rule 2.201, JEPB]

Essential Potential to Emit (PTE) Parameters

2. The owner or operator 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 the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or Local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.
(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 year provided for maintenance checks and readiness testing.
(d) The 50 hours per year for non-emergency situations may not be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.
[40 CFR 60.4243(d), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

Emission Limitations and Operating Requirements

3. The engine in this emissions unit shall not exceed the following standards of hydrocarbons + oxides of nitrogen ($HC + NO_X$) and carbon monoxide (CO). The owner or operator shall comply with these emission standards over the entire life of the engine.

Engine	$HC + NO_X$	CO
30 kW Cummins Emergency Generator	13.4 g/kW-hr	519 g/kW-hr

[40 CFR 60.4233(c), 40 CFR 60.4234, Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

4. The owner or operator shall operate the stationary RICE and control devices according to the manufacturer's emission-related written instructions. The owner or operator shall only change those emission-related settings that are permitted by the manufacturer.
[40 CFR 60.4243(a)(1), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

Monitoring Requirements

5. The owner or operator shall install a non-resettable hour meter upon startup of the emergency engine if the engine does not meet the standards applicable to non-emergency engines.
[40 CFR 60.4237(c), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

Compliance Requirements

6. If the certified stationary SI ICE and control device are not operated and maintained according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and compliance shall be demonstrated according to the following:

   (a) A maintenance plan shall be kept and records of conducted maintenance.
   (b) The engine shall be maintained and operated in a manner consistent with good air pollution control practices for minimizing emissions.

   [40 CFR 60.4243(a)(2)(i), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

7. If the owner or operator does not operate and maintain the certified stationary SI ICE and control device according to the manufacturer's written emission-related instructions, the owner or operator is required to perform initial performance testing as indicated in 40 CFR 60.4244, however, subsequent performance testing is not required unless the stationary engine is rebuilt or undergoes major repair or maintenance.
[40 CFR 60.4243(f), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

Recordkeeping

8. The owner or operator shall keep the following records:

   (a) Maintenance conducted on the engine.
   (b) If the stationary SI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054 and 1060, as applicable.
   (c) If the stationary SI ICE is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards.

   [40 CFR 60.4245(a), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

9. The owner or operator shall keep the following records of operation:

   (a) Hours of operation of the engine that is recorded through the non-resettable hour meter.
   (b) Hours spent for emergency operation, including what classified the operation as emergency and
   (c) Hours spent for non-emergency operation.
   [40 CFR 60.4245(b), Rule 62-204.800(8), FAC and Rule 2.201, JEPB]

10. The records in Specific Conditions No. 8 and 9 shall be kept and maintained for a minimum period of five (5) years. Records shall be provided to the Permitting Authority upon request.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]