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PERMITTEE

United States Air Force MacDill Air Force Base
7621 Hillsborough Loop Drive
MacDill AFB, FL 33621-5207

Air Permit No.0570141-015-AC
Permit Expires: October 30, 2017
Minor Air Construction Permit
Three 3,622 HP Emergency
Generators

Authorized Representative:

Robert B. Hughes, Director, 6th Civil Engineer Squadron

PROJECT

This air construction permit authorizes the installation of three 2015 Model Year 3,622 HP, diesel fuel fired, Caterpillar, Inc., Model No. 3516C-HD, emergency generators or equivalent. The proposed work will be conducted at the existing facility, which is an United States Air Force Base categorized under Standard Industrial Classification No. 9711 – National Security. The existing facility is located in Hillsborough County at 7621 Hillsborough Loop Drive, MacDill AFB, FL 33621-5207. The UTM coordinates of the existing facility are Zone 17, 353.5 km East, and 3081.5 km North.

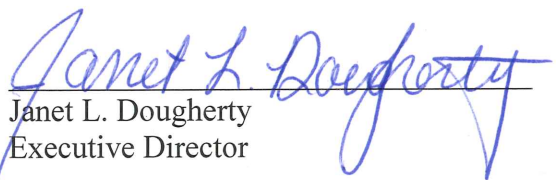
This permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Executed in Tampa, Florida.

ENVIRONMENTAL PROTECTION
COMMISSION OF HILLSBOROUGH COUNTY


Janet L. Dougherty
Executive Director

Environmental Excellence in a Changing World

Roger P. Stewart Center

3629 Queen Palm Drive, Tampa, FL 33619 - (813) 627-2600 - www.epchc.org

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FINAL PERMIT

CERTIFICATE OF SERVICE

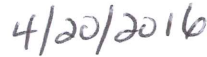
The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit and Final Determination) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested, or was sent via mail, before the close of business on the date indicated below to the following persons.

Robert B. Hughes, Director, 6th Civil Engineer Squadron robert.hughes@us.af.mil
Andrew Rider, P.E. - IAP Worldwide Services andrew.rider.ctr@us.af.mil
Robynn N. Andracsek, P.E. – randracsek@burnsmcd.com

FILING AND ACKNOWLEDGMENT FILED, on this date,
pursuant to Section 120.52(7), Florida Statutes, with the designated
agency clerk, receipt of which is hereby acknowledged.



Clerk



Date

FINAL DETERMINATION

1. PERMITTEE

Robert B. Hughes
Director, 6th Civil Engineer Squadron
United States Air Force MacDill Air Force Base
7621 Hillsborough Loop Drive
MacDill AFB, FL 33621-5207

2. PERMITTING AUTHORITY

Environmental Protection Commission of Hillsborough County
3629 Queen Palm Dr.
Tampa, Florida 33619

3. PROJECT

Air Permit No. 0570141-015-AC
Minor Air Construction Permit

This permit authorizes the installation of three 2015 Model Year 3,622 HP, diesel fuel fired, Caterpillar, Inc., Model No. 3516C-HD, emergency generators or equivalent. The three generators will provide emergency power to the SOCOM Operational Support Facility.

4. NOTICE AND PUBLICATION

The EPCHC distributed a draft minor air construction permit package on March 15, 2016. The applicant published the Public Notice in the Tampa Tribune on April 5, 2016. The EPCHC received the proof of publication on April 11, 2016. No requests for administrative hearings or requests for extensions of time to file a petition for administrative hearing were received.

5. COMMENTS

On April 4, 2016, one comment was received from the applicant. The following summarizes the comment and the response to the comment. No comments on the Draft Permit were received from the public.

Comment No. 1: In the table for EU ID No. 016, the Facility Description for the three 3,622 HP engines states "Data Center". The facility description should state "Operational Support Facility".

Response: As requested, the table is updated as follows.

From:

EU ID No. 016		Stationary Emergency Compression Ignition Internal Combustion Engines (CI ICE) subject to 40 CFR 60, Subpart IIII				
Building No.	Facility Description	Model Year	Manufacturer	Model Number	Fuel	Rating (HP)
STATIONARY EMERGENCY GENERATOR						
SOCOM	Data Center	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622
SOCOM	Data Center	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622
SOCOM	Data Center	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622

FINAL DETERMINATION

To:

EU ID No. 016		Stationary Emergency Compression Ignition Internal Combustion Engines (CI ICE) subject to 40 CFR 60, Subpart IIII				
Building No.	Facility Description	Model Year	Manufacturer	Model Number	Fuel	Rating (HP)
STATIONARY EMERGENCY GENERATOR						
SOCOM	Operational Support Facility	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622
SOCOM	Operational Support Facility	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622
SOCOM	Operational Support Facility	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622

6. CONCLUSION

The final action of the EPCHC is to issue the permit with the minor changes as described above.

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The existing facility consists of the following sources within this emissions unit.

EU ID No. 016		Stationary Emergency Compression Ignition Internal Combustion Engines (CI ICE) subject to 40 CFR 60, Subpart IIII				
Building No.	Facility Description	Model Year	Manufacturer	Model Number	Fuel	Rating (kW)
STATIONARY EMERGENCY GENERATORS						
3	Base Ops	2009	Cummins/Onan	DSGAB-7568737	Diesel	125
11	CE Control	2007	Kohler	20REOZJB	Diesel	20
26	Fire Dept.	2008	Onan	DKAE-6042902	Diesel	20
89	JCSE	2011	Caterpillar	C9	Diesel	300
90	Temp CP & PX Term	2008	Onan	DSHAF-5985907	Diesel	100
156	USSOCOM	2009	Kohler	1500REOZD C	Diesel	1500
156	USSOCOM	2009	Kohler	1500REOZD C	Diesel	1500
156	USSOCOM	2009	Kohler	1500REOZD C	Diesel	1500
203	SEC FORCES FAC	2008	Cummins/Onan	D080172838	Diesel	500
261	Consolidated Comm. Fac.	2012	Kohler	1750REOZD D	Diesel	1750
497	USSOCOM	2008	Caterpillar	3512B	Diesel	1250
501	USSOCOM	2007	Kohler	1250REOZM	Diesel	1250
535	MARCENT	2008	Katolight	CD300PX6T3	Diesel	300
567	JICCEN CUP	2007	Caterpillar	3516C	Diesel	2000
567	JICCEN CUP	2007	Caterpillar	3516C	Diesel	2000
567	JICCEN CUP	2011	Caterpillar	3516C	Diesel	2000
567	JICCEN CUP	2011	Caterpillar	3516C	Diesel	2000
567	JICCEN CUP	2007	Caterpillar	3516C	Diesel	2000
567	JICCEN CUP	2007	Caterpillar	3516C	Diesel	2000
805	DISA	2010	Kohler	60REOZJC	Diesel	60
825	MSA	2008	Katolight	SD20F-J4T2	Diesel	20
861	JCSE	2006	Generac	SD130	Diesel	130
913	JCSE Squadron Fac	2011	Cummins/Onan	DQDAA-4835095	Diesel	250
913	JCSE	2011	Cummins/Onan	QSLR-G3 NR3	Diesel	250
1039	SOCCEM Cultural Engagement Group	2011	Kohler/Detroit Diesel	S60, 6063HV35	Diesel	550
1043	SOCCEM HQ	2010	Generac	SD600	Diesel	600

SECTION 1. GENERAL INFORMATION

Building No.	Facility Description	Model Year	Manufacturer	Model Number	Fuel	Rating (kW)
1041	Clinic CEP	2008	Caterpillar	3512C	Diesel	1500
EMERGENCY FIRE PUMP						
1115B	90 Day Accumulation Point Fire Pump	2006	John Deere	JU4H-UF10	Diesel	38

PROPOSED PROJECT

This permit authorizes the installation of three 2015 Model Year 3,622 HP, diesel fuel fired, Caterpillar, Inc., Model No. 3516C-HD, emergency generators or equivalent. The generators will provide emergency power to the SOCOM Operational Support Facility.

This facility is a military base and includes an airfield, associated aircraft maintenance and support activities, and a wide variety of military and non-military support operations. The military base is comprised of multiple tenant units (United States Special Operations Command (USSOCOM), Joint Intelligence Center Central Command (JICCENT), Joint Communications Support Element (JCSE), etc.).

This project will add the following generators:

EU ID No. 016		Stationary Emergency Compression Ignition Internal Combustion Engines (CI ICE) subject to 40 CFR 60, Subpart IIII				
Building No.	Facility Description	Model Year	Manufacturer	Model Number	Fuel	Rating (HP)
STATIONARY EMERGENCY GENERATOR						
SOCOM	Operational Support Facility	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622
SOCOM	Operational Support Facility	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622
SOCOM	Operational Support Facility	2015	Caterpillar, Inc. or equivalent	3516C-HD	Diesel	3622

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility does not operate units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Environmental Protection Commission of Hillsborough County. The mailing address is 3629 Queen Palm Dr., Tampa, Florida 33619. All documents related to applications for permits to operate an emissions unit shall be submitted to the Environmental Protection Commission of Hillsborough County.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Dr., Tampa, Florida 33619.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the EPCHC may require the permittee to conform to new or additional conditions. The EPCHC shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the EPCHC may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the EPCHC. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Construction and Expiration: The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Application for a Non-Title V Operating Permit: This permit authorizes construction of the permitted emissions unit(s) and initial operation to determine compliance with Department rules. A Non-Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Non-Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 60 days after completion of compliance testing. To

SECTION 2. ADMINISTRATIVE REQUIREMENTS

apply for a Non-Title V operation permit, the applicant shall submit the appropriate application form, the appropriate permitting fee, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Environmental Protection Commission of Hillsborough County. [Rules 62-4.030 and 62-4.050, F.A.C.]

9. Annual Operating Report (AOR): The information required by the Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Environmental Protection Commission of Hillsborough County. All synthetic non-Title V sources shall submit a completed DEP Form 62-210.900(5) unless the annual operating report is submitted using the DEP's electronic annual operating report software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. [Rule 62-210.370(3), F.A.C.]

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

10. All applicable rules of the Environmental Protection Commission of Hillsborough County including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction. [Rule 62-4.070(7), F.A.C.]
11. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]
12. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Air Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Stationary Emergency Generators

This section of the permit addresses the following emissions unit.

EU ID No. 016	Stationary Emergency Compression Ignition Internal Combustion Engines (CI ICE) subject to 40 CFR 60, Subpart IIII
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{Permitting Note: All CI ICE engines are listed in the facility process description}

EQUIPMENT

1. Equipment Name: The permittee is authorized to install three 3,622 HP, diesel fuel fired, Caterpillar, Inc., Model No. 3516C-HD, emergency generators or equivalent. [Rule 62-4.070(3), F.A.C. and Permit Application Received February 16, 2016]

PERFORMANCE RESTRICTIONS

2. Permitted Capacity: Each stationary emergency generator rating, associated with this project, shall not exceed 3,622 HP. [Rules 62-4.070(3) and 62-210.200(Potential-to-Emit), F.A.C. and Permit Application Received February 16, 2016]
3. Authorized Fuel: Each stationary emergency generator shall be fired on ultra-low sulfur diesel (ULSD) fuel only. [Rules 62-4.070(3) and 62-210.200(Potential-to-Emit), F.A.C.; 40 CFR 60.4207; and Permit Application Received February 16, 2016]
4. Restricted Operation: Each emergency generator shall not operate for more than a total of 100 hours per consecutive 12-month period, for the purposes of maintenance, testing, and demand response. There is no time limit on the use of emergency stationary ICE in emergency situations. [Rules 62-4.070(3) and 62-210.200(Potential-to-Emit), F.A.C.; 40 CFR 60.4207 and 60.4211(f); and Permit Application Received February 16, 2016]
5. In order for the engine to be considered an emergency stationary ICE under 40 CFR 60 Subpart IIII, any operation other than emergency operation, maintenance and testing, demand response, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the engine is not operated according to the requirements in paragraphs below, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. [40 CFR 60.4211(f) and Rules 62-4.070(3) and 62-204.800, F.A.C.]
 - A) There is no time limit on the use of emergency stationary ICE in emergency situations.
 - B) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (i) through (iii) of this condition for a maximum of 100 hours per year. Any operation for non-emergency situations as allowed by paragraph C) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph C).
 - i. Emergency stationary ICE may be operated for 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

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Stationary Emergency Generators

or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

- ii. Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3
 - iii. Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- C) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph B) of this condition. Except as provided in paragraph C)(i) of this condition, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
 - a. The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
 - b. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - c. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - d. The power is provided only to the facility itself or to support the local transmission and distribution system.
 - e. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Stationary Emergency Generators

engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

6. Notwithstanding the specific requirements from NSPS detailed in this permit, these emissions units shall comply with all applicable requirements of 40 CFR 60 Subpart IIII, incorporated by reference. [Rule 62-204.800, F.A.C.]
7. Notwithstanding the specific requirements from NSPS detailed in this permit, these emissions units shall comply with all applicable requirements of 40 CFR 60 Subpart A, incorporated by reference. [Rule 62-204.800, F.A.C.]

EMISSIONS STANDARDS

8. Emissions Standards: These engines are subject to 40 CFR 60, Subpart IIII, Stationary Emergency Compression Ignition Internal Combustion Engines (CI ICE). These engines shall comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE, as summarized below: [40 CFR 60.4205(b)(2) and Rules 62-4.070(3) and 62-204.800, F.A.C.]

Emission Standards – grams per kW-hr						
Rated Power (kW)		Tier	Model Year ¹	NMHC + NO _x	CO	PM
kW>560		Tier 2	2006	6.4	3.5	0.20
¹ The model years listed indicate the model years for which the specified tier of standards take effect.						

9. The diesel fuel fired in the stationary emergency generator is subject to the following per-gallon standards: [40 CFR 60.4207(b) and Rules 62-4.070(3) and 62-204.800, F.A.C.]
 - A) Sulfur content: 15 parts per million (ppm) maximum.
 - B) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.
10. Visible emissions from the exhaust of each stationary emergency generator shall not exceed 20% opacity. [Rule 62-296.320(4)(b)1, F.A.C.; 40 CFR 60.4205(b) and 40 CFR 89.113(a); and Chapter 1-3.52.1., Rules of the EPC]
11. No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12 and Rules 62-4.070(3) and 62-204.800, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Stationary Emergency Generators

TESTING REQUIREMENTS

12. Initial Compliance Tests: In order to demonstrate compliance with Specific Condition No. 10, test each 3,622 HP Caterpillar, Inc. emergency generator for visible emissions within 30 days of startup of the engine. Submit two copies of the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C.]
13. Testing of emissions shall be conducted while each generator is operating at capacity. Capacity is defined as 90-100% of the rated capacity of 3,622 HP. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. [Rules 62-4.070(3) and 62-297.310, F.A.C.]
14. Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in 40 CFR 60.4212, as specified below. [40 CFR 60.4205(e), 60.4212(c), 60.4213(a), (b), and (c) and Rules 62-4.070(3) and 62-204.800, F.A.C.]
- A) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder
- B) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in CFR 89.112 or 40 CFR 94.8 (Specific Condition No. 8) above must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where STD = The standard specified for that pollutant in 40 CFR 89.112

- C) Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines CFR 89.112 or 40 CFR 94.8 (Specific Condition No. 8) above may follow the testing procedures specified in 60.4213 of Subpart IIII, as specified below:
- i. Each performance test must be conducted according to the requirements in 40 CFR 60.8 and under the requirements in Table 7 to Subpart IIII. The test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load.

Table 7 to Subpart IIII (Summarized)

Complying with the requirement to	You must	Using	According to the following requirements
Limit the concentration of NO _x in the stationary CI	i. Select the sampling port location and the number of	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) If using a control device, the sampling site must be located at

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Stationary Emergency Generators

internal combustion engine exhaust.	traverse points;		the outlet of the control device.
	ii. Determine the O ₂ concentration of the stationary internal combustion engine exhaust at the sampling port location; and,	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurement for NO _x concentration.
	iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and,	(3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see § 60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurement for NO _x concentration.
	iv. Measure NO _x at the exhaust of the stationary internal combustion engine	(4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see § 60.17)	(d) NO _x concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
Limit the concentration of PM in the stationary CI internal combustion engine exhaust	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A	(a) If using a control device, the sampling site must be located at the outlet of the control device.
	ii. Determine the O ₂ concentration of the stationary internal combustion engine exhaust at the sampling port location; and	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurements for PM concentration.
Complying with the requirement to	You must	Using	According to the following requirements
	iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(3) Method 4 of 40 CFR part 60, appendix A	(c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration.
	iv. Measure PM at the exhaust of the stationary internal combustion engine	(4) Method 5 of 40 CFR part 60, appendix A	(d) PM concentration must be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Stationary Emergency Generators

- ii. You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c).
 - iii. You must conduct three separate test runs for each performance test required in this section, as specified in § 60.8(f). Each test run must last at least 1 hour.
15. Test Requirements: At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPCHC, unless shorter notice is agreed to by the EPCHC. The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the appropriate air compliance program a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the appropriate air compliance program by mutual agreement. In addition, tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]
16. When the Environmental Protection Commission of Hillsborough County (EPC) after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable requirement or permit condition is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of pollutant emissions from the source and to provide a report on the results of said tests to the EPC. For the purpose of confirming compliance with the emission limitations in this permit, the EPC may require the use of EPA Method 9 or other approved methods, as deemed necessary. [Rules 62-297.310(8)(c) and 62-4.070(3), F.A.C.]
17. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1	Sample and Velocity Traverses for Stationary Sources
1a	Sample and Velocity Traverses for Stationary Sources With Small Stacks or Ducts
2	Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
3	Gas Analysis for the Determination of Dry Molecular Weight
3A	Determination of Oxygen And Carbon Dioxide Concentrations in Emissions From Stationary Sources (Instrumental Analyzer Procedure)
3B	Gas Analysis for the Determination of Emission Rate Correction Factor or Excess Air
4	Determination of Moisture Content in Stack Gases
5	Method for Determining Particulate Matter Emissions

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Method	Description of Method and Comments
6C	Method for Determining SO ₂ Emissions (Instrumental)
7E	Determination of Nitrogen Oxides Emissions From Stationary Sources (Instrumental Analyzer Procedure)
9	Visual Determination of the Opacity of Emissions from Stationary Sources
320	Measurement of Vapor Phase Organic and Inorganic Emissions By Extractive Fourier Transform Infrared (FTIR) Spectroscopy
ASTM D 6348-03	Determination of Gaseous Compounds by Extractive Direct Interface Fourier Transform Infrared (FTIR) Spectroscopy

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

MONITORING REQUIREMENTS

18. The permittee shall comply with the following: [40 CFR 60.4211(a), (c), and (g) and Rules 62-4.070(3) and 62-204.800, F.A.C.]

- A) Install, configure, operate, and maintain the stationary CI internal combustion engine according to the manufacturer's emission-related written instructions except as specified in D) below;
- B) Change only those emission-related settings that are permitted by the manufacturer; and
- C) Meet the requirements of 40 CFR parts 89 and/or 1068, as they apply to you.
- D) If the engine is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or if you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:
 - i. If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
 - ii. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or 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 within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must 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.

19. Prior to startup, the permittee shall install and maintain a non-resettable hour meter on the stationary emergency generator. [Rule 62-4.070(3), F.A.C. and 40 CFR 60.4209(a)]

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RECORDS AND REPORTS

20. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the following: [Rule 62-297.310(10), F.A.C.]
- A) Clearly identify the specific generator being tested, including the building number, engine make, model number, and serial number
 - B) The fuel input rates
21. The permittee shall maintain monthly records of the engine's operation in order to demonstrate compliance with Specific Condition Nos. 3, 4, 5, 8, and 9. The records shall be maintained onsite for at least three years and shall be made available to any local, state, or federal air pollution agency. The records shall include, as a minimum, the following: [40 CFR 60.4214(b) and 60.4210(f); and Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.]
- A) Month, Year
 - B) Diesel fuel records demonstrating compliance with Specific Condition No.9
 - C) Hours of operation of each engine or generator (hours)
 - D) Monthly and rolling consecutive 12-month totals of hours of operation of each engine or generator (hours)
 - E) A copy of the manufacturer's engine certification, certificate of conformity, or in-use compliance tests results for engines that were not certified by the manufacturer for each engine subject to 40 CFR 60, Subpart IIII.
 - F) Manufacturers' engine labels which contain the information required by 40 CFR 60.4210(f) and 40 CFR 1039.135(b) starting with the engine model years as specified below:

Maximum Engine Power	Starting Model Year
$56 \leq \text{kW} < 130$	2012
Maximum Engine Power	Starting Model Year
$\text{kW} \geq 130$	2011

22. If each 3,622 HP emergency stationary CI ICE operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 60.4211(f)(2)(ii) and (iii) (Specific Condition No. 5) or operates for the purposes specified in 40 60.4211(f)(3)(i) (Specific Condition No. 5), an annual report must be submitted and must contain the following information: [40 CFR 60.4214(d) and Rules 62-4.070(3) and 62-204.800, F.A.C.]
- A) Company name and address where the engine is located.
 - B) Date of the report and beginning and ending dates of the reporting period.
 - C) Engine site rating and model year.
 - D) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

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- E) Hours operated for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii), (Specific Condition No. 5) including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii). (Specific Condition No. 5)
 - F) Number of hours the engine is contractually obligated to be available for the purposes specified in 40 CFR 60.4211(f)(2)(ii) and (iii) (Specific Condition No. 5).
 - G) Hours spent for operation for the purposes specified in 40 CFR 60.4211(f)(3)(i) (Specific Condition No. 5), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4211(f)(3)(i) (Specific Condition No. 5). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
23. The annual report specified in Specific Condition No. 22 shall be submitted as follows: [40 CFR 60.4214(d) Rules 62-4.070(3) and 62-204.800, F.A.C.]
- A) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
 - B) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4.
24. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the permittee must keep records of the following. The records shall be maintained onsite for at least three years and shall be made available to any local, state, or federal air pollution agency upon request. [40 CFR 60.4214(b) and Rule 62-4.070(3), F.A.C.]
- A) Operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter.
 - B) The permittee must record the time of operation of the engine
 - C) The reason the engine was in operation during that time.