Wolverine Advanced Materials
Facility ID No. 0690008
Lake County

Title V Air Operation Permit Renewal and Revision

Permit No. 0690008-008-AV
(Renewal and Revision of Title V Air Operation Permit No. 0690008-007-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Air Resource Management, Central District

3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Telephone: (407) 897-4100
Fax: (850) 412-0455

Compliance Authority:

State of Florida
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DRAFT PERMIT

PERMITTEE:
Wolverine Advanced Materials
10825 County Road 44
Lisbon, Florida 34788

Permit No. 0690008-008-AV
Wolverine Advanced Materials
Facility ID No. 0690008
Title V Air Operation Permit Renewal and Revision

The purpose of this permit is to renew and revise the Title V air operation permit for the above referenced facility. The Wolverine Advanced Materials is located in Lake County at 10825 County Road 44, Lisbon, Florida. UTM Coordinates are: Zone 17, 424.16 East and 3194.26 North. Latitude is: 28˚52′26″ North; and, Longitude is: 81˚46′40″ West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: TBD
Renewal Application Due Date: TBD
Expiration Date: TBD

(Draft)

_____

Caroline D. Shine
District Air Program Administrator
Central District

CDS/jr/ng

Subsection A. Facility Description.

Wolverine Advanced Materials operates a manufacturing facility that consists of a surface coating operation that includes a coil coater. The facility produces rubber-coated sealing materials utilized in the automotive industry. The coil coating line includes a permanent total enclosure to ensure 100 percent of the volatile organic compound (VOC)/hazardous air pollutants (HAP) emissions are captured and conveyed to a single regenerative thermal oxidizer (Durr Environmental, Model R25-V2-85) with a destruction efficiency of approximately 98.8 percent. The facility also includes an emergency fire pump subject to 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Coil Coater
006	Emergency Fire Pump

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal and revision application received December 02, 2011, this facility is a major source of hazardous air pollutants (HAP).

A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
40 CFR 60, Subpart A, NSPS General Provisions	006
40 CFR 60, Subpart IIII, Stationary Compression Ignition Internal Combustion Engines	006
40 CFR 63, Subpart A, NESHAP General Provisions	001 and 006
40 CFR 63, Subpart SSSS, Surface Coating of Metal Coil	001
40 CFR 63, Subpart ZZZZ, Stationary Reciprocating Internal Combustion Engines	006
State Rule Citations (62-204.800, 62-297.310)	001

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally Enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed–necessary and ordered by the Department. To comply, procedures to minimize pollutant emissions shall include the following:

a. tightly cover or close all VOC containers when they are not in use,
b. tightly cover, where possible, all open troughs, basins, baths, tanks, etc. when they are not in use,
c. maintain all piping, valves, fittings, etc. in good operating condition,
d. prevent excessive air turbulence across exposed VOC's,
e. immediately confine and clean up spills of VOC containing materials and make sure certain wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rule 62-296.320(1), F.A.C.]

FW4. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

FW5. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a. Chemical or water application to unpaved roads and unpaved yard areas;
b. Paving and maintenance of roads, parking areas and yards;
c. Landscaping or planting of vegetation; and
d. Other techniques, as necessary.

[Rule 62-296.320(4)(c), F.A.C.]

Annual Reports and Fees

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

FW6. Annual Operating Report. The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year. [Rule 62-210.370(3), F.A.C.]

FW7. 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, F.A.C.]

FW8. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

FW9. Prevention of Accidental Releases (Section 112(r) of CAA). If and when the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

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

[40 CFR 68]

Subsection A. Emissions Unit 001

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

EU No.	Brief Description
-001	The coil coating line includes a permanent total enclosure to ensure that 100 percent of the VOC/HAP emissions from the coil coating line are captured and conveyed to a single regenerative thermal oxidizer (Durr Environmental, Model R25-V2-85) with reduction efficiency of 99.8 percent at peak load.

Compliance Plan:

A.0. Compliance Test. Compliance Testing for the coil coating line shall be conducted as specified in the attached Compliance Plan. [Rule 62-4.070(3), F.A.C.]

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum permitted utilization rates are as follows:

Material	Maximum Utilization Rate (tons per any consecutive 12 months)
Coating	4,600
Primer	318
Sulfur Solution	372
Accelerator	86

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), F.A.C.; and Permit No. 0690008-009-AC]

A.2. Authorized Fuel. The thermal oxidizer shall be fired by propane or natural gas only. [Rules 62-210.200(PTE) and 62-213.410, F.A.C.]

A.3. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

A.4. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Emission Limitations and Standards

A.5. Visible Emissions. Visible emissions are limited to less than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C]

A.6. HAP Emission Limitation. The coil coating source must limit organic HAP emissions to the level specified in paragraph (1), (2), or (3) of this condition (No. A.6.)

(1) No more than 2 percent of the organic HAP applied for each month during each 12-month compliance period (98 percent reduction); or

(2) No more than 0.046 kilogram (kg) of organic HAP per liter of solids applied during each 12-month compliance period; or

(3) If you use an oxidizer to control organic HAP emissions, operate the oxidizer such that an outlet organic HAP concentration of no greater than 20 parts per million by volume (ppmv) on a dry basis is achieved and the efficiency of the capture system is 100 percent.

You must demonstrate compliance with one of these standards by following the applicable procedures in §63.5170 of 40 CFR 63, Subpart SSSS, Surface Coating of Metal Coil.
[Rule 62-4.070(3), F.A.C. and 40 CFR 63, Subpart SSSS, Surface Coating of Metal Coil]

Test Methods and Procedures

A.7. Test Methods. Required tests shall be performed in accordance with the following reference methods:

EPA Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources **The compliance test shall be conducted for one hour.**
24	Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings
25 or 25A	Determination of Total Gaseous Nonmethane Organic Emissions as Carbon or Organic Concentration Using a Flame Ionization Analyzer

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.
[Rules 62-204.800 and 62-297.100, F.A.C.; Appendix A of 40 CFR 60; Permit No. 0690008-009-AC]

A.8. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

A.9. Compliance Testing after Initial Compliance Test. Compliance tests shall be performed for visible emissions and HAP emissions annually (during each federal fiscal year (October 1 – September 30)) to demonstrate compliance with the emission limitations in Specific Conditions **A.5.** and **A.6.** **[Rule 62-297.310(7)(a)4.c., F.A.C.]**

[*Permitting Note: Since the coil coater needs to meet a HAP emission standard listed in* ***§63.5210 of*** *40 CFR 63, Subpart SSSS, Surface Coating of Metal Coil, the frequency of testing is annually per Rule 62-297.310(7)(a)4.c, F.A.C..]*

A.10. Additional Compliance Test Requirements. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted 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 unit is so limited, operation at higher capacities is allowed for no more than 15

consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

A.11. EPA Procedure T. The following EPA Procedure T criteria shall be met:

a) Determine the equivalent diameters of the NDOs and determine the distances from each VOC emitting point to all NDO's. Determine the equivalent diameter of each exhaust duct or hood and its distance to all NDO's. Calculate the distances of equivalent diameters.

The number of equivalent diameters shall be at least 4.

b) Measure the total area (At) of the enclosure and the total area (An) of all NDO's of the enclosure. Calculate the NDO to enclosure area ratio (NEAR) as follows:

NEAR = An / At (NEAR must be less than 0.05)

c) Measure the actual volumetric flow rate of each gas stream exiting the enclosure through an exhaust duct or hood using EPA Method 2. Measure the actual volumetric flow rate of each gas stream entering the enclosure through a forced makeup air duct using EPA Method 2. Calculate FV using the following equation:

FV = (Qo - Qi) / An (FV shall be at least 3600 meter/hour or 200 fpm)
where
Qo = the sum of the volumetric flow from all gas streams exiting the enclosure through an exhaust duct or hood.
Qi = the sum of the volumetric flow from all gas streams into the enclosure through a forced makeup air duct; zero, if there is no forced makeup air into the enclosure.
An = total area of all NDO's in enclosure.

d) Verify that the direction of air flow through all NDO's is inward. Use streamers, smoke tubes, tracer gases, etc. Monitor the direction of air flow at intervals of at least terminates for at least one hour. [Rule 62-297.450(2)(b),F.A.C.]

Recordkeeping and Reporting Requirements

A.12. Test Notification: The permittee shall notify the Compliance Authority, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the permittee. [Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

A.13. Monthly Recordkeeping Requirements. In order to demonstrate compliance with Specific Condition Nos. **A.1**., **A.2.,** and **A.6.,** the permittee shall maintain a log at the facility for a period of at least five (5) years from the date the data is recorded and made available to the Department upon request. The log, at a minimum, shall contain the following:

Monthly

a) Facility Name, Facility ID No. (i.e., 0690008);
b) Date (month/year);
c) Monthly total of material utilization rates;
d) Monthly total of VOC emissions, total HAP emissions, and individual HAP emissions;
e) Consecutive 12-month total of material utilization rates;
f) Consecutive 12-month total of VOC emissions, total HAP emissions, and individual HAP emissions; and
g) Type of fuel utilized.

The monthly log shall be completed by the end of the following month.
[Rule 62-213.440(1)(b)2.b.,F.A.C.]

A.14. Supporting Documentation. Supporting documentation, such as Material Safety Data Sheets, purchase orders, etc., shall be kept to provide sufficient information to determine compliance. The log and documents shall be kept at the facility for at least five (5) years and made available to the Department. [Rule 62-4.070(3), F.A.C., Rule 62-213.440(1)(b)2.b., F.A.C.]

A.15. Additional Recordkeeping Requirements: Records specified in Specific Condition No. **A.13.**, must document the method, calculations, and formulas used in determining the usage rate and the emission rate. All calculations, including those used to derive emissions, must be clearly documented, and **may be presented in the form of a template of sample calculations** and available for review on site by the Department. [Rule 62-4.070(3), F.A.C.]

A.16. Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

Other Requirements

A.17. Federal Rule Requirements. In addition to the specific conditions listed, this emissions unit is also subject to the applicable requirements contained in 40 CFR 63, Subpart A-General Provisions (See Appendix NESHAP-General Provisions) and 40 CFR 63, Subpart SSSS–Surface Coating of Metal Coil (See Appendix NESHAP-Surface Coating of Metal Coil). These conditions are incorporated into this permit (attached and part of this permit).
[Rule 62-213.440, F.A.C.]

Best Management Practices

A.18. Best Management Practices: The following management practices shall be utilized in the operation of the coil coating line and its permanent total enclosure.

a. Primer and Coating Storage and Handling: Containers of primer and coating will not be stored or applied in an open condition. All Containers will primarily be opened for the testing of drum contents or when a drum of primer and coating is opened for connection to the applicators. Transfer from one container to another will only occur when used primer or

coating drums need to be emptied. All hose, valves and connectors that handle primer or coating will be checked on a regular basis to assure that each is sealed. The operation of the coil coater will be discontinued should any leak occur while handling primer or coating. Any leakage of primer or coating will be cleaned up as soon as it occurs and properly disposed. The cause of any leak will be identified and corrected prior to continued operation of the coil coater.

b. Primer and Coating Heads Enclosures: During coating the enclosure for the primer and coating heads will be closed except for the entry of personnel. Any adjustments to the equipment requiring the opening of a portion of the enclosure will not take greater than fifteen minutes in any three hour period. All seals for any enclosure opening will be airtight or have negative flow. Air flow around each enclosure will be tested using a hand held smoke generator. Any enclosure seals found to have positive flow will be replaced within twenty-four hours. A logsheet, designed to require company personnel to inspect and record the enclosure's operations (i.e.: make sure that the enclosure continues to operate under a negative pressure), will be utilized. The employee will visually inspect and record the exhaust vents manometer reading as well as the flow indicators at the NDO's of the enclosure. Thin plastic strips placed within the NDO's will provide quick and accurate determination of the air flow at the NDO's. The inspection will take place weekly.

c. Oven Operation: The oven doors will be closed at all times during operation of the coil coater. Any maintenance of adjustment must be performed as expeditiously as practical but in no case greater than fifteen minutes in any three hour period. All seals on oven doors will be kept in good operating conditions and checked monthly using a hand held smoke generator. Oven doors must be air tight or have negative flow. The seals for doors with positive flow must be changed when the oven is shut down.

d. Thermal Oxidizer and Air Collection System: The thermal oxidizer will be operated at or above the minimum temperature achieved during the last compliance test. Thermal oxidizer temperature for each incinerator will be recorded and be available for inspection. At no time will the coil coater be operated when the incinerators are not operating. All connecting duct work from the oven to the incinerators will be air tight or have negative flow to insure that no VOC emissions result.

e. Natural Draft Openings: The permanent total enclosure for each coating head of the coil will be under negative pressure during all normal coating operations. All natural draft openings will be under negative pressure.

f. Strip Chart Recorder: To provide a continuous record that doors are not left open during routine operation of the coater, each door has electrical contacts and are connected to a strip chart recorder. The strip chart recorder will record the opening of the door.

[Rule 62-4.070(3), F.A.C.; Permit No. 0690008-009-AC]

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

EU No.	Brief Description
-006	The diesel fire pump, Manufactured by Cummins Model No. V504F2 is emergency equipment and operated routinely for less than 100 hours per year. The engine is rated at 187 hp.

Federal Requirements

B.1. Federal Regulations: The diesel-fired Stationary Fire Pump Engine must meet the emission requirements of Table 4 (see below) to Subpart IIII of Part 60 as indicated in §60.4205(c) of 40 CFR Part 60, Subpart IIII. Additionally, the Engine must comply with §63.6640(f)(i),(ii), and (iii) and Table 2d, category 4 maintenance requirements of 40 CFR 63, Subpart ZZZZ. The engine is subject to 40 CFR 60, Subpart A-General Provisions (See Appendix NSPS-General Provisions), 40 CFR 60, Subpart IIII-Standards of Performance for Stationary Compression Ignition Internal Combustion (See Appendix NSPS, Subpart IIII-Stationary Compression Ignition Internal Combustion Engines), 40 CFR 63, Subpart A-General Provisions (See Appendix NESHAP-General Provisions), and 40 CFR 63, Subpart ZZZZ-National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (See Appendix NESHAP, Subpart ZZZZ-Stationary Reciprocating Internal Combustion Engine). These conditions are incorporated into this permit (attached and part of this permit). [Rule 62-204.800(8), F.A.C.]

From 40 CFR 60, Subpart IIII:

Table 4 to Subpart IIII of Part 60—Emission Standards for Stationary Fire Pump Engines

[As stated in §§60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NO_X	CO	PM
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011+	7.5 (5.6)		0.40 (0.30)
8≤KW<19 (11≤HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011+	7.5 (5.6)		0.40 (0.30)
19≤KW<37 (25≤HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011+	7.5 (5.6)		0.30 (0.22)
37≤KW<56 (50≤HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+[1]	4.7 (3.5)		0.40 (0.30)
56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)

	2011+[1]	4.7 (3.5)		0.40 (0.30)
75≤KW<130 (100≤HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010+[2]	4.0 (3.0)		0.30 (0.22)
130≤KW<225 (175≤HP<300)	**2008 and earlier**	**10.5 (7.8)**	**3.5 (2.6)**	**0.54 (0.40)**
	2009+[3]	4.0 (3.0)		0.20 (0.15)
225≤KW<450 (300≤HP<600)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+[3]	4.0 (3.0)		0.20 (0.15)
450≤KW≤560 (600≤HP≤750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+	6.4 (4.8)		0.20 (0.15)

[1]For model years 2011–2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

[2]For model years 2010–2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

[3]In model years 2009–2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

(b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), **or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c)**, you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping 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 this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

<u>From 40 CFR 63, Subpart ZZZZ</u>:

(f) *Requirements for emergency stationary RICE.* (1) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed on or after June 12, 2006, or **an existing emergency stationary RICE located at an area source of HAP emissions,** you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

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

(ii) You may operate your emergency stationary RICE 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. 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 RICE beyond 100 hours per year.

(iii) You may operate your emergency stationary RICE 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 and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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 that

owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

Table 2dto Subpart ZZZZ of Part 63— Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
1. Non-Emergency, non-black start CI stationary RICE ≤300 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;[1]	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
	b. Inspect air cleaner 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.	

2. Non-Emergency, non-black start CI stationary RICE 300<HP≤500	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O_2; or	
	b. Reduce CO emissions by 70 percent or more.	
3. Non-Emergency, non-black start CI stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O_2; or	
	b. Reduce CO emissions by 70 percent or more.	
4. Emergency stationary CI RICE and black start stationary CI RICE.[2]	**a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1]**	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
5. Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year.[2]	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1] b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and	

	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
6. Non-emergency, non-black start 2SLB stationary RICE	a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first;[1]	
	b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.	
7. Non-emergency, non-black start 4SLB stationary RICE ≤500 HP	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;[1]	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	

8. Non-emergency, non-black start 4SLB stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd at 15 percent O_2; or	
	b. Reduce CO emissions by 93 percent or more.	
9. Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;[1]	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
10. Non-emergency, non-black start 4SRB stationary RICE >500 HP	a. Limit concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd at 15 percent O_2; or	
	b. Reduce formaldehyde emissions by 76 percent or more.	
11. Non-emergency, non-black start landfill or digester gas-fired stationary RICE	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first;[1]	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and	

	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	

[1]Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

[2]If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

[75 FR 51595, Aug. 20, 2010]

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NSPS, Subpart A–General Provisions.
Appendix NSPS, Subpart IIII-Stationary Compression Ignition Internal Combustion Engines.
Appendix NESHAP, Subpart A–General Provisions.
Appendix NESHAP, Subpart SSSS-Surface Coating Metal Coil.
Appendix NESHAP, Subpart ZZZZ-Stationary Reciprocating Internal Combustion Engines.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.