E-Stone USA Corporation
E-Stone
Facility ID No. 0550049
Highlands County

Title V Air Operation Permit
Permit No. 0550049-009-AV

Permitting Authority

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

2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901

Telephone: (239) 344-5600
Fax: (850) 412-0590

Compliance Authority

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

2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901

Telephone: (239) 344-5600
Fax: (850) 412-0590

Title V Air Operation Permit

Permit No. 0550049-009-AV

Table of Contents

Section **Page Number**

I. Facility Information.
A. Facility Description. 2
B. Summary of Emissions Units. 2
C. Applicable Regulations. 3

II. Facility-wide Conditions. 4

III. Emissions Units and Conditions.
A. Non-Metallic Mineral Processing Line No. 1
Non-Metallic Mineral Processing Line No. 2 5
B. Polymerizing Line No. 1
Polymerizing Line No. 2
~~Regenerative Thermal Oxidizers (RTOs)~~ 10
~~C. Facility-Wide HAP ..... 15~~
C. Polishing Line No. 2 17
D. Common Conditions 19
E Grinding Stone Manufacturing 21
F. Emergency Generators 25

I V. Appendices. 29
Appendix A, Glossary.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NESHAP A, 40 CFR 63 Subpart A – General Provisions.
Appendix NESHAP WWWW, 40 CFR 63 Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants (NESHAP): Reinforced Plastic Composites Production.
Appendix NESHAP SS, 40 CFR 63 Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process.
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.

~~Referenced Attachments.....At End~~
~~Figure PF, E-Stone Process Flow.~~
~~Monthly HAP Emissions Spreadsheet~~

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
South District Office
P.O. Box 2549
Fort Myers, FL 33902-2549
SouthDistrict@dep.state.fl.us

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

DRAFT PERMIT

PERMITTEE:
E-Stone USA Corporation
8041 Haywood Taylor Blvd.
Sebring, Florida 33870

Permit No. 0550049-009-AV
E-Stone
Facility ID No. 0550049
Title V Air Operation Permit

The purpose of this permit is to renew the Title V air operation permit (No. 0550049-004-AV) for the above referenced facility. The E-Stone facility is located in Highlands County at 8041 Haywood Taylor Blvd., Sebring, Florida 33870. UTM coordinates are: Zone 17, East (km) 455.5, and North (km) 3042.17. Latitude is: 27° 27′ 27" North; and, Longitude is: 81° 21′ 09" 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 shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Effective Date:
Expiration Date:

DRAFT

_____
Jon M. Iglehart
Director of
District Management

JMI/NWM/

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

This facility is a cultured granite reinforced plastics manufacturing facility. The facility produces 4 foot by 8 foot slabs consisting of glass, mirror, granite, polymer and limestone. The facility is comprised of two production lines. Each production line consists of three processes: nonmetallic mineral processing, polymerizing, and polishing. Granite rock and various aggregates are crushed, dried, and then screened during nonmetallic mineral processing. The polymerizing process takes place at one of two polymerizing lines. Each polymerizing line is enclosed in its own permanent total enclosure (PTE). During the polymerizing process the crushed aggregates are mixed with polyester resin. The mixture is conveyed to an enclosed room that is a PTE, poured into an open mold, and heated. The slab gets a thin layer of limestone on the bottom to strengthen the finished product. After the mold is cooled a wet grinder is used to smooth the rough edges and polish the surface. The two manufacturing lines are similar with the following differences: 1) Polymerizing Line No. 2 can produce twice as many cultured granite slabs as Polymerizing Line No. 1; and 2) Polishing Line No. 2 is equipped with additional equipment (an epoxy station, two dryers, an oven and a baghouse). The polymerizing process has the potential to emit hazardous air pollutants, (HAP), primarily styrene emissions. Volatile HAP emissions are controlled by Regenerative Thermal Oxidizers (RTO) and are also vented through cyclones and baghouses to the atmosphere. Cyclones and baghouses throughout the facility control particulate matter (PM) emissions.

The facility has emission unit activities that emit insignificant emissions.

The facility is described in the application (DEP File No. 0550049-002-AC) as an automated open mold batch process using noncorrosive, high strength mechanical resin application. The open molding operation is non-atomized mechanical resin application with non-vapor suppressed resin. For purposes of 40 CFR 63 Subpart WWWW requirements, this facility is a new facility prior to startup.

Subsection B. Summary of Emissions Units. (Revisions are identified by italics).

EU No.	Brief Description
Regulated Emissions Units	
001	Non-Metallic Mineral Processing Line No. 1
002	Non-Metallic Mineral Processing Line No. 2
003	Polymerizing Line No. 1 and Regenerative Thermal Oxidizer (RTO) 1
004	Polymerizing Line No. 2 and RTO 2
~~005~~	~~Regenerative Thermal Oxidizer (RTO) (Polymerizing Line No. 1)~~
~~006~~	~~Facility Wide HAP~~
007	Polishing Line No. 2
~~008~~	~~Regenerative Thermal Oxidizer (RTO) (Polymerizing Line No. 2)~~
009	Diamond Grinding Stone Manufacturing Furnace
010	Western Emergency Generator
011	Eastern Emergency Generator

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

Subsection C. Applicable Regulations.

Based on the Title V Air Operation application received February 3, 2009, this facility is a major source of hazardous air pollutants (HAPs). A summary of applicable regulations is shown in the following table.

Regulation	**EU No(s).**
40 CFR 63 Subpart A – General Provisions	EU003, EU004, ~~EU005, EU006, EU008~~, EU009
40 CFR 63 Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants (NESHAP): Reinforced Plastic Composites Production	EU003, EU004, ~~EU005, EU006, EU008~~
40 CFR 63, Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process	EU003, EU004, ~~EU005, EU006, EU008~~
40 CFR 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters	EU009
40 CFR 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	EU010, EU011
62-296.320, F.A.C.	All
62-210.370, F.A.C.	All
62-213.440, F.A.C.	All
62-297.310, F.A.C.	All
62-210.700, F.A.C.	All
62-213.420, F.A.C.	All
62-4.160, F.A.C.	All

SECTION II. FACILITY-WIDE CONDITIONS.

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 unnecessary and ordered by the Department. Nothing is deemed necessary and ordered at this time.
[Rule 62-296.320(1)(a), 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), 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. Minimize drop distances of dry materials when handling.
b. As necessary, provide wind breaks around material handling equipment.
c. As necessary, apply water or other dust suppressants to control emissions from unpaved roads, yards, and aggregate piles.
d. Enclosure or covering of conveyor systems.
e. Paving of driveways.

[Rule 62-296.320(4)(c), and 62-4.070(3), F.A.C.]

Annual Reports and Fees

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

FW6. Electronic Annual Operating Report and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-

210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1st of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]
~~Annual Operating Report (AOR). 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.]~~

FW7. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit and EPA Region 4 (61 Forsyth St. Atlanta, GA 30303-8960) 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.a. & 3. and (b), F.A.C.]

FW8. Prevention of Accidental Releases (Section 112(r) of CAA). If, and when, the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: https://cdx.epa.gov. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: http://www.epa.gov/osweroe1/content/rmp/index.htm. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

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

[40 CFR 68]

~~**FW10. Unauthorized Operation**. Polymerizing Line No. 2 (EU004) is not authorized to operate. The permittee did not construct the facility as authorized by Permit No. 0550049-003-AC which expired June 26, 2009. Per email correspondence dated March 27, 2009 and written correspondence dated April 20, 2009, polymerizing line no. 2 (EU004) will require a dedicated RTO. Before polymerizing line 2 (EU004) will be authorized to be put into operation, the owner or operator must submit an application for an air construction permit for the modification of the facility and for the installation of the an RTO. See Specific Conditions **B.1**. [Rule 62-4.070(3), F.A.C.]~~

~~**FW11. Required Air Construction Application**. Based upon email correspondence dated March 27, 2009 and written correspondence dated April 20, 2009, the applicant has communicated that polymerizing line no. 2 (EU004) will need to be equipped with a dedicated RTO prior to being put into operation. The owner or operator must submit an air construction application for this modification before placing EU004 into operation. See Specific Conditions **B.1** and **B.11.** [Rule 62-4.070(3), F.A.C.]~~

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

EU No.	Brief Description
001	Non-Metallic Mineral Processing Line No. 1
002	Non-Metallic Mineral Processing Line No. 2

Emission units EU001 and EU002 are two non-metallic mineral processing plants. Each plant dries and crushes glass and aggregate. EU001 is identical to EU002. Each processing line consists of conveyors, hoppers, a five-ton per hour (TPH) rotary dryer (Manufacturer Allgaier, Model TT 60/5 DOB AG), shakers, and a crusher. Each nonmetallic mineral processing line is equipped with a cyclone (ID No. DC1: Dustex, Model PC72) and a baghouse (ID No. DC2: Dustex, Model 3610-14-18). The emission units' start-up date was May 1, 2007.

Essential Potential to Emit (PTE) Parameters

A.1 Cyclones and Baghouses. Emissions units EU001 and EU002 shall be controlled by cyclones and a baghouses. The cyclones and baghouses shall be operated and maintained according to the manufacturer's specifications.

Replacement equipment and bags shall meet the minimum specifications below:

	Emissions Control			
EU No.	**ID No.**	**Control Devices**	**Design Flow Rates, acfm**	**Air-to-cloth ratio**
001	DC1	Baghouse / Cyclone	19,423	4.91:1
002	DC2	Baghouse / Cyclone	19,423	4.91:1

[Permit No. 0550049-003-AC]

A.2. Permitted Capacity. Non-Metallic Mineral Processing Line Nos. 1 and 2 (EU001 and EU002) are authorized to operate the rotary dryers at a maximum rate of 1 mmBtu/hr.
[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), F.A.C.; and, Permit No. 0550049-003-AC]

A.3 Methods of Operation.
a. *Fuels.* The fuels that are allowed to be burned in these units are:
(1) Propane, and
(2) Natural gas.
b. *Fuel Meters*: Fuel meters shall be installed on each line to record the actual fuel usage of each line.
[Rule 62-213.410, F.A.C.; and, Permit No. 0550049-003-AC.]

A.4 Hours of Operation. Each emissions unit shall not exceed 6106 hours/year.
[Rule 62-210.200(PTE),
F.A.C., Permit No. 0550049-003-AC]

Emission Limitations and Standards

~~**A.5.** Potential Emission. EU001 and EU002 have the potential to emit the following during any consecutive 12-month average:~~

~~**EU No.**~~	~~**Pollutant**~~	~~**Potential Emissions**~~
~~**001**~~	~~CO~~	~~0.26~~
	~~NO_x~~	~~0.31~~
	~~PM~~	~~1.38~~
	~~PM10~~	~~0.91~~
	~~SO_2~~	~~Insignificant~~
	~~VOC~~	~~Insignificant~~
~~**002**~~	~~CO~~	~~0.26~~
	~~NO_x~~	~~0.31~~
	~~PM~~	~~1.38~~
	~~PM10~~	~~0.91~~
	~~SO_2~~	~~insignificant~~
	~~VOC~~	~~Insignificant~~

~~[Permit No. 0550049-003-AC]~~

~~*{Permitting Note: The potential emissions identified in Specific Condition **A.5.** are for informational purposes only and are not enforceable.}*~~

Test Methods and Procedures

{See Subsection D. Common Conditions}

Recordkeeping and Reporting Requirements

{See Appendix RR, Facility-Wide Reporting Requirements, Subsection D. Common Conditions for additional requirements}

A.6 Recordkeeping. The owner or operator shall maintain daily, monthly, and consecutive 12 month records documenting the following for each Non-Metallic Mineral Processing Line (EU001 and EU002):

a. The amount of throughput (aggregate) processed;
b. Rotary dryer operating rates;
c. Type and amount of fuel burned (from fuel meter readings); and
d. Hours of operation.

These records need to be in a format that is readily available upon request by the Department.
[Rules 62-4.160(14), 62-213.440(1)(b)2, and 62-210.370(2)h, F.A.C.; Permit No. 0550049-003-AC]

Other Requirements

A.7 **Common Conditions.** These emissions units are subject to **Specific Conditions D.1. through D.11.** contained in Subsection **D. Common Conditions.**

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

EU No.	Brief Description
003	Polymerizing Line No. 1
004	Polymerizing Line No. 2
~~005~~	~~Regenerative Thermal Oxidizer (RTO) (Polymerizing Line No. 1)~~
~~008~~	~~Regenerative Thermal Oxidizer (RTO) (Polymerizing Line No. 2)~~

The facility is equipped with two polymerizing lines. Each polymerizing line consists of a mixing area, an enclosed room [a permanent total enclosure (PTE)] equipped with a polymerizing oven, a slab take off area, and a calibration area. Each polymerizing line's oven runs on electricity. Polymerizing Line No. 2 is able to produce twice as much product as Polymerizing Line No. 1.

The two polymerizing lines have a total of three baghouses and two cyclones to control PM emissions. Polymerizing Line No. 1's (EU003), PM emissions are controlled by a cyclone/baghouse combination (ID No. DC3, Zanetti, Model SN 05-10-25), and a Regenerative Thermal Oxidizer (RTO) ~~(EU005)~~. The combination cyclone/baghouse (DC3) controls PM emissions from Polymerizing Line No. 1's aggregate dosing area, polymerizing area within the PTE, slab take off, and calibration area. Polymerizing Line No. 2's (EU004), PM emissions are controlled by a baghouse (ID No. DC6, Dustex, Model 3610-14-18) a cyclone/baghouse combination (ID No. DC4, Dustex, Model 3610-14-18) and a Regenerative Thermal Oxidizer (RTO) ~~(EU008)~~. The baghouse (DC6) controls PM emissions from Polymerizing Line No. 2's aggregate dosing area and the polymerizing area within the PTE. The cyclone/baghouse combination (DC4) controls PM emissions from Polymerizing Line No. 2's slab take off #2 and calibration #2 areas.

~~The RTO's (EU005) and (EU008) installed on Polymerizing Lines No.1 and No. 2 do not capture and destroy 100 percent of the HAP emissions. HAP emissions not captured or destroyed by the RTO are emitted through cyclones and baghouses to the atmosphere.~~

The enclosures installed around Polymerizing Lines No.1 and No. 2 capture 100 percent of the HAP emissions. Only a portion of these HAP emissions are vented to the RTO's while the remainder are vented uncontrolled through cyclones and baghouses to the atmosphere.

Both Polymerizing Line Nos. 1 and 2 (EU003 and EU004) and their RTOs ~~(EU005) and (EU008)~~ are subject to and must comply with the applicable regulations in 40 CFR 63 Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63 Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process, and 40 CFR 63 Subpart A, National Emissions Standards for Hazardous Air Pollutants for Source Categories, General Provisions.

Essential Potential to Emit (PTE) Parameters

B.1 Cyclones and Baghouses. Emissions from EU003 and EU004 shall be controlled by RTO's, cyclones and baghouses. Air handling fans shall be equipped with adjustable "blast" gates for control and balance of air flow distribution. The cyclones and baghouses shall be operated and maintained according to the manufacturer's specifications. Replacement equipment and bags shall meet the minimum specifications below:

	Emissions Controls			
EU No.	**ID No.**	**Control Devices**	**Design Flow Rates, acfm**	**Air-to-cloth ratio**

003	DC3	Baghouse /Cyclone	16,097	3.95:1
004	DC4	Baghouse / Cyclone	22,357	5.65:1
004	DC6	Baghouse	19,423	4.91:1

EQUIPMENT

B.2 Regenerative Thermal Oxidizer (RTO) ~~EU005~~ (Polymerizing Line No. 1)

The RTO's shall be maintained according to its manufacturer's specifications.

Parameter	Operating Parameter
Process Flow	6,972 SCFM*
Combustion Chamber Oxidation Temperature	1500◦F
~~Thermal efficiency~~	~~95%~~

*The RTO is variable speed thus the SCFM may vary.
[Permit No. 0550049-003-AC]

B.3 Regenerative Thermal Oxidizer (RTO). ~~EU008 (RTO)~~ Polymerizing Line No. 2. The variable speed RTO (EU008) is an Advantage Energy Group (AEG) Premier Series 15.0 regenerative thermal oxidizer (model number 7-RTO-95), with the design criteria described in the table below. The RTO controls HAP and VOC emissions inside the PTE on polymerizing line no. 2. HAP emissions not captured or destroyed by the RTO are emitted through cyclones and baghouses, specifically DC4 and DC6, to the atmosphere. The RTO shall be operated and maintained according to its manufacturer's specifications.

Parameter	Operating Parameter
Process Flow	15,000 SCFM*
Combustion Chamber Oxidation Temperature (Minimum)	1500°F
~~Thermal efficiency~~	~~95%~~

*The RTO is variable speed thus the SCFM may vary. [Permit No. 0550049-005-AC]

B.4 RTO Operation.

a. *Manufacturer instructions*. The RTOs must be operated in accordance with the seller and/or manufacturer's written operation and maintenance instructions.
[Rule 62-4.070(3), F.A.C.; Permit No. 0550049-003-AC]

b. *NSPS requirements.* The RTOs must be monitored and operated according to the procedures in 40 CFR 63 Subpart SS. [40 CFR 60.5855]

c. Authorized Fuel. The RTOs (EU005 and EU008) are authorized to burn natural gas.
[Rule 62-210.200(202), F.A.C.; Permit No. 0550049-005-AC]

B.5 Magnehelic Pressure Gauge. The owner or operator shall install, operate, and maintain magnehelic pressure gauges at each discharge stack on baghouses DC3, DC4 and DC6. The magnehelic pressure gauge shall be continuously operated when the two polymerizing lines and RTO are in operation. The magnehelic pressure gauges shall read in inches of water.

[Permit No. 0550049-003-AC]

B.6 Differential Pressure Gauge. The owner or operator shall install, operate and maintain a differential pressure gauge on each polymerizing line's PTE. The differential pressure gauge shall indicate a negative pressure at all times when the polymerizing line(s) are operating. The differential pressure gauge shall measure the pressure in inches of water. [Permit No. 0550049-003-AC]

B.7 Hours of Operation. These emissions units (EU003 and EU004, ~~and EU005, EU008~~) may operate continuously (8760 hours/year).
[Rule 62-210.200(PTE), F.A.C., Permit No. 0550049-003-AC]

B.8 Methods of Operation.
a. *EU003 and EU004*. The polymerizing ovens on Polymerizing Line Nos. 1 and 2 (EU003, EU004) operate on electricity.
b. ~~*EU005 and 008*~~. Both RTOs ~~(EU005) and (EU008)~~ are authorized to burn natural gas.
c. *Fuel Meters*. Fuel meters shall be installed on the RTO lines to record the actual fuel usage.
[Rule 62-213.410, F.A.C.; Permit No. 0550049-003-AC]

B.9 Operation/Maintenance/Malfunction Manual. The permittee shall develop an Operation and Maintenance (O & M) and Malfunction Manual. The manual shall address the RTO, cyclones and baghouses. The O&M and Malfunction Manual shall be kept on site of the facility. [Permit No. 0550049-003-AC]

Emission Limitations and Standards

B.10 ~~Potential Emissions – Primary Criteria Pollutants. Polymerizing Lines Nos. 1 and 2 (EU003 and EU004) and the RTO's (EU005) and (EU008) have the potential to emit the following pollutants during any consecutive 12 months:~~

~~**EU No.**~~	~~**Emissions (Tons)**~~					
	~~**CO**~~	~~**NO_x**~~	~~**SO_2**~~	~~**VOC**~~	~~**PM**~~	~~**PM10**~~
~~003~~	~~——~~	~~——~~	~~——~~	~~——~~	~~0.69~~	~~0.32~~
~~004~~	~~——~~	~~——~~	~~——~~	~~——~~	~~1.37~~	~~0.64~~
~~005~~	~~0.36~~	~~0.44~~	~~insignificant~~	~~50.67*~~	~~insignificant~~	~~Insignificant~~
~~008~~	~~1.79~~	~~-~~	~~insignificant~~	~~77.05*~~	~~insignificant~~	~~Insignificant~~

~~*VOC emissions include 50.67 TPY and 77.05 TPY (after controls) from the polymerizing lines not related to fuel emissions.~~

~~*{Permitting Note: The potential emissions identified in Specific Condition **B.10**. are for informational purposes only and are not enforceable.}*~~

B.10 HAP Emission Limits**.** Organic HAP emissions shall be calculated ***prior*** to any add-on controls in order to determine the applicable emission limits for the facility. Demonstration of compliance with the applicable emission limits (Table 3 or 95 percent reduction) may be met ***after*** add-on controls.
a. If the facility's organic HAP emissions ***prior*** to add-on controls are less than 100 TPY, the facility is subject to the applicable limits in Table 3 of 40 CFR 63 Subpart WWWW.
b. If the facility HAP emissions ***prior*** to add-on controls are 100 TPY or greater, the facility shall reduce the total organic HAP emissions from its operations by at least 95 percent by weight.

[40 CR 63.5799, 63.5805, and 63.5810 and Permit No. 0550049-003-AC]

B.11 Site Specific Emission Factor Line 1. The owner or operator is authorized to use a site specific emission factor of ~~93.43~~ 78.94 lbs. organic HAP per ton resin used for EU003. [40 CFR 63 Subpart WWWW]

B.12 Site Specific Emission Factor Line 2. The owner or operator is authorized to use a site specific emission factor of 138.68 lbs. organic HAP per ton resin for EU004. [40 CFR 63 Subpart WWWW]

B.13 Modification of Emission Factors. These site specific emission factors shall not be authorized to be used in emission calculations for demonstrating compliance if the facility is modified and/or after the expiration date of this permit. [40 CFR 63 Subpart WWWW]

B.14 Emission Factor Determination. The site specific emission factors must be re-determined by performance testing upon any modification to the facility and prior to submitting a renewal application. [40 CFR 63 Subpart WWWW]

Excess Emissions

{See Subsection D. Common Conditions for additional requirements}

Test Methods and Procedures

{See Subsection D. Common Conditions for additional requirements}

B.15 RTO Performance Testing. Any changes or modifications to the facility, including modifications to EU003 or EU004 and the control equipment, ~~EU005, or EU008~~, may require additional performance testing that may be more frequent than required by 40 CFR 63 Subpart WWWW. [Rules 62-4.030, F.A.C.; 62-213.400, F.A.C.; and 62-210.300, F.A.C.; Permits 0550049-003-AC and 0550049-005-AC]

B.16 Performance and Compliance Testing. All performance and compliance testing shall be conducted in accordance with the applicable regulations in 40 CFR 63, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63 Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process, and 40 CFR 63 Subpart A, National Emissions Standards for Hazardous Air Pollutants for Source Categories, General Provisions. [40 CFR 63 Subparts A, SS, & WWWW.
[Rules 62-297.310(7)(a)1 and 62-4.070(3)F.A.C., 40 CFR 63 Subparts A, WWWW, and SS]

B.17 Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.; Permit No. 0550049-005-AC]

~~**B.14** RTO Performance Testing. Any changes or modifications may require additional performance testing that may be more frequent than required by 40 CFR 63 Subpart WWWW.~~
~~[Rules 62-4.070(3); 62-213.400 and 62-210.300, F.A.C.; Permit No. 0550049-005-AC]~~

B.18 Magnehelic Pressure Gauge Reading During Testing. The reading of each magnehelic pressure gauge shall be recorded during the initial performance test, periodic performance tests and annual compliance tests. [Permit Nos. 0550049-003 and -005-AC]

Recordkeeping and Reporting Requirements

{See Appendix RR and Subsection D. Common Conditions for additional requirements}

B.19 Reporting and Recordkeeping**.** All reporting and recordkeeping shall meet the applicable requirements in 40 CFR 63, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63 Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process, and 40 CFR 63 Subpart A, National Emissions Standards for Hazardous Air Pollutants for Source Categories, General Provisions.
[40CFR 63 Subparts A, SS, and WWWW; Permit 0550049-003-AC]

B.20 ~~Magnehelic Pressure Gauges. The reading of each magnehelic pressure gauge shall be recorded during each stack test, including during the initial performance test, periodic performance tests, and annual compliance tests. [Permit No. 0550049-003-AC]~~

B.21 Recordkeeping. The owner or operator shall maintain daily, monthly, and consecutive 12-month records documenting the following for each Polymerizing Line (EU003 and EU004) and RTO ~~(EU005 and EU008)~~.

a. the pounds of resin used;
b. the quantity of each HAP containing material used; and
c. type and amount of fuel burned (amount from fuel meter readings).

These records need to be in a format that is readily available upon request by the Department.
[Rules 62-4.160(14), F.A.C.; 62-213.440(1)(b)2, F.A.C.; Permit 0550049-003-AC]

B.22 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.
[Rule 62-297.310(8), F.A.C.]

B.23 Notification and Reporting Schedule. The owner or operator must submit the following to the Compliance Authority:

a. Notifications. The owner or operator must submit all notifications in Table 13 of 40 CFR 63 Subpart WWWW as required by 40 CFR 63.5905. If any information submitted in any notification is changed, the owner or operator must submit the changes in writing to the permitting authority within 15 calendar days after the change.
b. Reports. The owner or operator must submit each report in Table 14 of 40 CFR 63 Subpart WWWW as required by 40 CFR 63.5910.
   I. Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
   II. Each compliance report shall be postmarked no later than 30 days after the end of the semiannual reporting period.

[40 CFR 63, Subpart WWWW]

Other Requirements

B.20 Common Conditions. These emissions units are subject to Specific Conditions E.1. through E.11 Contained in Subsection D. Common Conditions.

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

EU No.	Brief Description
006	Facility Wide HAPs

The Polymerizing Line Nos. 1 and 2 (EU003 and EU004) and the RTOs (EU005 and EU008) collectively are EU006, Polymerizing Area Wide. This EU is designated for compliance and monitoring with 40 CFR 63 Subparts WWWW, SS, and A. The total HAP emissions shall not exceed the HAP emissions limit which is determined by the regulations of 40 CFR 63 Subpart WWWW. Both Polymerizing Line Nos. 1 and 2 (EU003 and EU004) and the RTOs (EU005 and EU008) are subject to and must comply with the regulations of 40 CFR 63 Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63 Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process, and 40 CFR 63 Subpart A, National Emissions Standards for Hazardous Air Pollutants for Source Categories, General Provisions.

Emission Limitations and Standards

{See Subsection E. Common Conditions for additional requirements}

C.1 HAP Emission Limits. The facility's HAP emissions shall be limited in accordance with the requirements of 40 CFR 63 Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production. Subpart WWWW requires monthly calculations of organic HAP emissions before and after controls in order to determine compliance demonstration. As required by 40 CFR 63 Subpart WWWW organic HAP emissions need to be calculated ***prior*** to any add-on controls in order to determine the applicable emission limits for the facility. Demonstration of compliance with the applicable emission limits (Table 3 or 95 percent reduction) may be met ***after*** add-on controls.

c. If the facility's organic HAP emissions ***prior*** to add-on controls are less than 100 TPY, the facility is subject to the applicable limits in Table 3 of 40 CFR 63 Subpart WWWW.

d. If the facility HAP emissions ***prior*** to add-on controls are 100 TPY or greater, the facility shall reduce the total organic HAP emissions from its operations by at least 95 percent by weight.

(Refer to 40 CR 63.5799, 63.5805, and 63.5810.) Permit No. 0550049-003-AC]

C.2 Organic HAPS. EU006 has the potential to emit the following HAPs:

Pollutant	Before Controls (TPY)	After Controls (TPY)
Styrene	98.79	63.18
Dimethyl phthalate	insignificant	Insignificant
Methanol	insignificant	Insignificant

HAP emissions shall be monitored and recorded for AOR purposes. The limits in the table (above in Specific Condition C.2.) are not enforceable limits. The enforceable HAP limits are defined in 40 CFR 63 Subpart WWWW which is made part of this permit.
[Permit No. 0550049-003-AC]

C.3 Site Specific Emission Factor. To demonstrate compliance in accordance with 40 CFR 60 Subpart WWWW, the owner or operator is authorized to use a site specific emission factor of 93.43 78.94 lbs. organic HAP per ton resin used for Line 1 and 138.68 lbs. organic HAP per ton resin for Line 2. These site specific emission factors shall not be authorized to be used in emission calculations for demonstrating

~~compliance if the facility is modified and/or after the expiration date of this permit. The site specific emission factors must be re-determined by performance testing upon any modification to the facility and prior to submitting a renewal application, if the owner or operator chooses to use a site specific emission factor upon modification or after the expiration date or this permit.~~
~~[40 CFR 63 Subpart WWWW]~~

~~Test Methods and Procedures~~

~~C.4~~ ~~Performance and Compliance Testing. All performance and compliance testing shall be conducted in accordance with the applicable regulations in 40 CFR 63, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63 Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process, and 40 CFR 63 Subpart A, National Emissions Standards for Hazardous Air Pollutants for Source Categories, General Provisions.~~
~~[40 CFR 63 Subparts A, SS, and WWWW; Permit 0550049-003-AC]~~

~~Recordkeeping and Reporting Requirements~~

~~{See Appendix RR, Facility Wide Reporting Requirements and Subsection E. Common Conditions for additional requirements}~~

~~C.5~~ ~~Reporting and Recordkeeping. All reporting and recordkeeping shall meet the applicable requirements in 40 CFR 63, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR 63 Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process, and 40 CFR 63 Subpart A, National Emissions Standards for Hazardous Air Pollutants for Source Categories, General Provisions.~~
~~[40 CFR 63 Subparts A, SS, and WWWW; Permit 0550049-003-AC]~~

~~C.6~~ ~~Notification and Reporting Schedule. The owner or operator must submit the following to the Compliance Authority:~~

~~c. Notifications. The owner or operator must submit all notifications in Table 13 of 40 CFR 63 Subpart WWWW as required by 40 CFR 63.5905. If any information submitted in any notification is changed, the owner or operator must submit the changes in writing to the permitting authority within 15 calendar days after the change.~~

~~d. Reports. The owner or operator must submit each report in Table 14 of 40 CFR 63 Subpart WWWW as required by 40 CFR 63.5910.~~

~~I. Each compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.~~

~~II. Each compliance report shall be postmarked no later than 30 days after the end of the semiannual reporting period.~~

~~[40 CFR 63, Subpart WWWW]~~

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

EU No.	Brief Description
007	Polishing Line No. 2/Epoxy Station

Polishing Line No. 2 (Simec Polishing Line 600) is a wet process. Polishing Line No. 2 consists of two (2) Comex CXM 4006 G (Serial Numbers 10198 and 10199) dryers and a Comex CXM 12006 G (Serial Number 10205) curing oven. A baghouse (Zanetti) is used to control emissions. Polishing Line No. 2 also includes an epoxy station.

Essential Potential to Emit (PTE) Parameters

C.1 Baghouse. Emissions unit EU007 shall be controlled by a baghouse. The baghouse shall be operated and maintained according to its manufacturer's specifications. Replacement equipment and bags shall meet the minimum specifications below:

EU No.	ID No.	Design Flow Rates, acfm
007	DC5	3,237

[Permit No. 0550049-003-AC]

C.2 Permitted Capacity.

a. The capacity is limited by the capacity, fuel, and emission limitations in Subsections A and B (requirements for EU001, EU002, EU003, EU004, and EU005).

b. The two dryers are authorized to operate at a maximum heat input of 153,000 Btu/hr.

c. The oven is authorized to operate at a maximum heat input of 1.25 mmBtu/hr.

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), F.A.C.; and, Permit No. 0550049-003-AC]

C.3 Methods of Operation. The fuels that are allowed to be burned in this unit are propane, and natural gas.
[Rule 62-213.410, F.A.C.; and, Permit No. 0550049-003-AC.]

C.4 Hours of Operation. This emissions unit may operate continuously (8760 hours/year).
[Rule 62-210.200(PTE), F.A.C.; Permit No. 0550049-003-AC]

Emission Limitations and Standards

C.5 ~~Potential Emissions. Polishing Line No. 2/Epoxy Station (EU007) has the potential to emit the following pollutants during any consecutive12 month period:~~

~~**Pollutant**~~	~~**Tons (during any consecutive 12 month average)**~~
~~CO~~	~~0.67~~
~~NO_x~~	~~0.82~~
~~SO_2~~	~~Insignificant~~
~~VOC~~	~~Insignificant~~
~~PM~~	~~Insignificant~~
~~PM10~~	~~Insignificant~~

~~{Permit No. 0550049-003-AC}~~

~~*{Permitting Note: The potential emissions identified in Specific Condition D. 4. are for informational purposes only. These limits are not enforceable.}*~~

Excess Emissions

{See Subsection D. Common Conditions for additional requirements}

Test Methods and Procedures

{See Subsection D. Common Conditions for additional requirements}

Recordkeeping and Reporting Requirements

{See Appendix RR, Facility-Wide Reporting Requirements and Subsection D. Common Conditions for additional requirements}

C.6 Recordkeeping. The owner or operator shall maintain daily, monthly, and consecutive 12 month records documenting the type and amount of fuel burned (amount from fuel meter readings). These records need to be in a format that is readily available upon request by the Department.
[Rules 62-4.160(14), F.A.C.; 62- 213.440(1)(b)2, F.A.C.; and 62-210.370(2)h, F.A.C.; Permit No. 0550049-003-AC]

Other Requirements

C.7 **Common Conditions.** This emissions unit is subject to **Specific Conditions D.1. through D.11.** contained in Subsection **D. Common Conditions.**

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

EU No.	Brief Description
001	Non-Metallic Mineral Processing Line No. 1
002	Non-Metallic Mineral Processing Line No. 2
003	Polymerizing Line No. 1
004	Polymerizing Line No. 2
~~005~~	~~Regenerative Thermal Oxidizer (RTO) (Polymerizing Line No. 1)~~
~~006~~	~~Facility Wide HAPs~~
007	Polishing Line No. 2
~~008~~	~~Regeneration Thermal Oxidizer (RTO) (Polymerizing Line No. 2)~~
009	Diamond Grinding Stone Manufacturing Furnace
010	Western Emergency Generator
011	Eastern Emergency Generator

Essential Potential to Emit (PTE) Parameters

D.1. 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

Unless otherwise specified, the averaging time for Specific Condition(s) **E.2.** is based on the specified averaging time of the applicable test method.

D.2 Visible Emissions (VE). VE for all cyclones and baghouses shall not exceed 5% opacity.
[Permit No. 0550049-003-AC]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

D.3 Prohibited Excess Emissions. 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.
[Rule 62-210.700(4), F.A.C.]

D.4 Excess Emissions Notification. In case of excess emissions resulting from malfunctions, the permittee or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

Test Methods and Procedures

D.5 Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

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.

D.6 Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), these EU(s) shall be tested to demonstrate compliance with the emissions standards for VE. VE testing shall be required on all cyclones and baghouses. VE testing is not required for the RTO.
[Rule 62-297.310(7), F.A.C. and Permit No. 0550049-003-AC]

D.7 Compliance Tests Prior to Renewal. Except as provided for in condition TR7 of Appendix TR, Testing Requirements, each cyclone and baghouse (DC1, DC2, DC3, DC4, and DC6) shall be tested to demonstrate compliance with the specified opacity standard for the associated emissions unit within the 12-month period prior to obtaining a renewed operation permit. A formal report of the testing along with the results shall be submitted with the renewal application.
[Rule 62-297.310(7)(a)3., F.A.C.; Permit No. 0550049-003-AC]

D.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.]

D.9 Visible Emission. VE tests shall be performed in accordance with EPA Method 9, incorporated and adopted by reference in Rule 62-204.800, F.A.C. [Rule 62-297.310(7), F.A.C.]

D.10 Performance Testing. A performance test for RTO(s) shall be conducted prior to renewal of the Title V operation permit in accordance with 40 CFR 63 Subpart WWWW.
[40 CFR 63 Subpart WWWW]

Recordkeeping and Reporting Requirements

D.11 Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

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

EU No.	Brief Description
009	Grinding Stone Furnace

The facility manufactures grinding stone for its polishing process. Molds for the grinding stones are placed in a 5 foot high, 4 foot diameter melting furnace. The furnace is fired by natural gas. The burner has a maximum heating value of 0.94 MMBtu/hr. The furnace is vented to the atmosphere. The furnace is subject to 40 CFR Part DDDDD.

Essential Potential to Emit (PTE) Parameters

E.1. Permitted Capacity. The maximum allowable heat input rate is 0.94 MMBtu/hr. [Rules 62-4.160(2), 62-204.800, and 62-210.200(PTE), F.A.C.; and, 40 CFR 63 Subpart DDDDD]

E.2. 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.]

E.3. Methods of Operation.
a. *Fuels.* The fuel that is allowed to be burned in this unit is natural gas. [Rule 62-213.410, F.A.C.; 40 CFR 63.7545(f) and (h).]

E.4. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

Work Practice Standards

E.5. Operation. The process heater and associated air pollution control equipment and monitoring equipment shall be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7500(a)(3) and 40 CFR 63.7540(a)(12)]

E.6. Maintenance. The process heater shall have a tune-up every 5 years. Each tune-up must be conducted no later than 61 months after the previous tune-up. [40 CFR 63.7540(a)(12) and 40 CFR 63.7515(d)]

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject;

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

f. Maintain on-site and submit, if requested by the Administrator, an annual report containing the following information.

1. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
2. A description of any corrective actions taken as a part of the tune-up; and
3. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

E.7. Burner Inspection. The burner inspection may be delayed until the next scheduled or unscheduled unit shutdown, but each burner shall be inspected at least once every 72 months. [40 CFR 63.7540(a)(12)]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

E.8. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and 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 Department for longer duration. [Rule 62-210.700(1), F.A.C.]

E.9. Excess Emissions Prohibited. 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. [Rule 62-210.700(4), F.A.C.]

Recordkeeping and Reporting Requirements

E.10. Initial Notification of Compliance. The permittee shall submit an initial Notification of Compliance Status. The Notification shall include:

a. A description of the affected unit including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply 40 CRF Subpart DDDDD, description of the fuel burned,;
b. A signed certification that you have met all applicable work practice standards;
c. A description of any deviation, the duration of the deviation, and the corrective action taken in the Notification of Compliance Status report;
d. A certification signed by a responsible official stating, "This facility complies with the required initial tune-up according to the procedures in §63.7540(a)(10)(i) through (vi)."

E.11. Notification of Compliance Status. The permittee shall submit a compliance report every five years. The report shall contain:

a. Company and Facility name and address;
b. Process unit information, emissions limitations, and operating parameter limitations;
c. Date of report and beginning and ending dates of the reporting period;
d. The total operating time during the reporting period;
e. The date of the most recent tune-up for each unit subject to conduct a 5-year tune-up;
f. The date of the most recent burner inspection if it was not done on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.

[40 CFR 63.7550]

E.12. The permittee shall submit the Notification of Compliance Status electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). If the reporting form specific to

this subpart is not available in CEDRI at the time that the report is due the report, the report shall be submitted to the Compliance Authority. [40 CFR 63.7550(h)(3)]

E.13. Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Condition
Initial Notification of Compliance	January 1, 2019	F.11.
Notification of Compliance Status	Within 61 months after previous notification	F.12.

[Rule 62-213.440(1)(b), F.A.C. and 40 CFR 63.7515(d)]

E.14. Recordkeeping. Copies of Notifications of Compliance Status shall be retained at least 5 years following the date of each report. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(a)(2)]

E.15. This emission unit is subject to the applicable portions of Appendix 40 CFR Part 63, Subpart A included with this permit, as specified below.

General Provisions Citation	Subject of Citation
§63.1	Applicability
§63.2	Definitions
§63.3	Units and Abbreviations
§63.4	Prohibited Activities and Circumvention
§63.5	Preconstruction Review and Notification Requirements
§63.6(a), (b)(1)-(b)(5), (b)(7), (c)	Compliance with Standards and Maintenance Requirements
§63.6(g)	Use of alternative standards
§63.6(h)(2) to (h)(9)	Determining compliance with opacity emission standards
§63.6(i)	Extension of compliance
§63.6(j)	Presidential exemption.
§63.8(a) and (b)	Applicability and Conduct of Monitoring
§63.8(d)(1) and (2)	Monitoring Requirements, Quality Control Program
§63.9	Notification Requirements
§63.10(a), (b)(1)	Recordkeeping and Reporting Requirements
§63.10(b)(2)(i)	Recordkeeping of occurrence and duration of startups or shutdowns
§63.10(b)(2)(iii)	Maintenance records

§63.10(b)(3)	Recordkeeping requirements for applicability determinations
§63.10(d)(1) and (2)	General reporting requirements
§63.10(d)(4)	Progress reports under an extension of compliance
§63.10(f)	Waiver of recordkeeping or reporting requirements
§63.12	State Authority and Delegation
§63.13-63.16	Addresses, Incorporation by Reference, Availability of Information, Performance Track Provisions

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

E.U. ID No.	Brief Description
010	Reciprocating Internal Combustion Engine for Western Emergency Generator
011	Reciprocating Internal Combustion Engine for Eastern Emergency Generator

EU010 is an existing engine for the western emergency generator, located at the facility. This engine was manufactured by John Deere in 2004 and has not been reconstructed or substantially modified. This engine operates is subject to 40 CFR 63 Subpart ZZZZ.

EU011 is an existing engine for eastern emergency generator, located at the facility. This engine was manufactured by John Deere in 2004 and has not been reconstructed or substantially modified. This engine is subject to 40 CFR 63 CFR Subpart ZZZZ.

The following table provides important details for these emissions units:

E.U. ID No.	Engine Brake HP	Date of Construction	Model Year	Primary Fuel	Type of Engine	Displacement liters/cylinder (l/c)	Serial #
010	185	October 2004	2004	Diesel	Emergency	6.8	3628230JPA67
011	185	October 2004	2004	Diesel	Emergency	6.8	3628244JPA67

Essential Potential to Emit (PTE) Parameters

F.1. Hours of Operation

a. *Emergency Situations*. There is no time limit on the use of emergency stationary RICE in emergency situations. [40 CFR 63.6640(f)(1)]

b. *Maintenance and Testing*. Each RICE is authorized to operate 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. [40 CFR 63.6640(f)(1)]

c. *Non-emergency Situations*. Each RICE is authorized to operate 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. [40 CFR 63.6640(f)(1)]

d. *Other Situations*. Each RICE 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, as long as the power provided by the financial arrangement is limited to emergency power. [40 CFR 63.6640(f)(1)]

e. *Engine Startup*. During periods of startup the owner or operator must minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for the appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6625(h)]

Emission Limitations and Operating Requirements

F.2. Work or Management Practice Standards

a. *Oil*. Change oil and filter every 500 hours of operation or annually, whichever comes first. [40 CFR 63 Table 2c(1)(a)]
b. *Air Cleaner*. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first. [40 CFR 63 Table 2c(1)(b)]
c. *Hoses and Belts*. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Table 2c(1)(c)]
d. *Operation and Maintenance*. Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow your own maintenance plan which must provide, to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution, control practice for minimizing emissions. [40 CFR 63.6625(e)]
e. *Oil Analysis*. The owner or operator has the option of using oil analysis to extend the change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in F.3.a. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent of 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 of water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63.6625(i)]

Monitoring of Operations

F.3. Hour Meter. The owner or operator must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]

Compliance

F.4. Continuous Compliance. Each unit shall be in compliance with the emission limitations and operating standards in this section at all times. [40 CFR 63.6605(a)]

F.5. Operation and Maintenance of Equipment. At all times the owner or operator must operate and maintain, any affected source, 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)]

Recordkeeping Requirements

F.6. Notification, Performance and Compliance Records.

a. A copy of each notification and report that the owner or operator submitted to comply with this section, including all documentation supporting any Initial Notification or Notification of Compliance Status that the owner or operator submitted.
b. The owner or operator must keep the records required in specific condition F.3.(d) of this section to show continuous compliance with each emission limitation or operating requirement.
c. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must 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 must 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.7. Malfunction Records.

a. Records of the occurrence and duration of each malfunction of operation (i.e. process equipment) or the air pollution control and monitoring equipment.
b. Records of actions taken during periods of malfunction to minimize emissions in accordance with specific condition F.8. of this section including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.6655]

F.8. Maintenance Records.

a. Records of all required maintenance performed on the air pollution control and monitoring equipment.
b. (The owner or operator must 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) are operated and maintained according to its own maintenance plan.

[40 CFR 63.6655]

F.9. Record Retention.

a. The owner or operator must keep records in a suitable and readily available form for expeditious reviews.
b. The owner or operator must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 CFR 63.6660 and 40 CFR 63.10(b)(1)]

Reporting Requirements

F.10. Emergency Situation. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in specific condition F.3. of this section, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work 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 work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. [40 CFR 63 Table 2c, footnote 1]

General Provisions

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

63.14. These engine shall comply with the applicable portions of Appendix 40 CFR Part 63 Subpart A included with this permit, as specified below.

General Provisions Citation	Subject of Citation
§63.1	General applicability of the General Provisions
§63.2	Definitions
§63.3	Units and abbreviations
§63.4	Prohibited activities and circumvention
§63.5	Construction and reconstruction
§63.6(a)	Applicability
§63.9(i)	Adjustment of submittal deadlines
§63.9(j)	Change in previous information
§63.10(a)	Administrative provisions for recordkeeping/reporting
§63.10(b)(1)	Record retention
§63.10(b)(2)(vi)–(xi)	Records
§63.10(b)(2)(xii)	Record when under waiver
§63.10(b)(2)(xiv)	Records of supporting documentation
§63.10(b)(3)	Records of applicability determination
§63.10(d)(1)	General reporting requirements
§63.10(d)(4)	Progress Reports
§63.10(f)	Waiver for recordkeeping/reporting
§63.12	State authority and delegations
§63.13	Addresses

SECTION VI. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.

Appendix I, List of Insignificant Emissions Units and/or Activities.

Appendix NESHAP, Subpart A – General Provisions.

Appendix NESHAP, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants (NESHAP): Reinforced Plastic Composites Production.

Appendix NESHAP, Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process.

Appendix RR, Facility-wide Reporting Requirements.

Appendix TR, Facility-wide Testing Requirements.

Appendix TV, Title V General Conditions.