



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
PERRY COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 06-07338**

**DATE: 1/29/2004**

Shelly Materials Inc.  
Katherine Beach  
301 Frank Rd.  
Columbus, OH 43207

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

SEDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 1/29/2004  
Effective Date: 1/29/2004**

**FINAL PERMIT TO INSTALL 06-07338**

Application Number: 06-07338  
APS Premise Number: 0664950004  
Permit Fee: **\$950**  
Name of Facility: Shelly Materials Inc.  
Person to Contact: Katherine Beach  
Address: 301 Frank Rd.  
Columbus, OH 43207

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**80 Park Dr.  
Thornville, Ohio**

Description of proposed emissions unit(s):  
**Portable Aggregate Washing System and Portable Generator.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

**Shelly Materials Inc.**  
**PTI Application: 06-07338**  
**Issued: 1/29/2004**

**Facility ID: 0664950004**

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

**Shelly Materials Inc.**  
**PTI Application: 06-07338**  
**Issued: 1/29/2004**

**Facility ID: 0664950004**

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

Shelly Materials Inc.  
 PTI Application: 06-07338  
 Issued: 1/29/2004

Facility ID: 0664950004

#### 14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### 15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	1.3
SO <sub>2</sub>	1.1
NO <sub>x</sub>	15.4
VOC	1.3
CO	3.4

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Material Handling associated with 170 TPH Portable Ortner Aggregate Washer	OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) shall not exceed 1.4 lbs/hr and 0.4 ton per year.  Visible particulate emissions shall not exceed 10% opacity as a six-minute average.  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b and A.2.c)
	OAC rule 3745-17-07(B) OAC rule 3745-17-08 (B)	The emission limitation and control measures specified by these rules are less stringent than the emission limitation and control measures established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

Split Hopper Loading  
 Transfer from Split Hopper to Feeder Conveyors 1 & 2  
 Feeder Conveyors 1 & 2

Transfer from Feeder Conveyors 1 & 2 to Ortner Feed Conveyor  
Ortner Feed Conveyor  
Transfer from Ortner Feed Conveyor to Ortner Washer  
Ortner Washer  
Transfer from Ortner Washer to Takeout Conveyor  
Takeout Conveyor  
Transfer from Takeout Conveyor to Stacker Conveyor  
Stacker Conveyor  
Transfer from Stacker Conveyor

- 2.b** The permittee shall employ best available control measures for the material handling operations listed above, for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain sufficient moisture content of the material, using water sprays as necessary, to maintain compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- 2.d** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.e** As defined in 40 CFR Part 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), a nonmetallic mineral processing plant means any combination of equipment used to crush or grind any nonmetallic mineral. For the purpose of determining the applicability of Subpart OOO, the above-mentioned equipment is not in a nonmetallic mineral processing plant. Therefore, the equipment is not subject to the provisions of Subpart OOO.
- 2.f** The permittee shall comply with all water pollution control requirements applicable to this emissions unit. These may include the requirement to obtain a Permit to Install and/or a National Pollutant Discharge Elimination System (NPDES) permit from the Ohio EPA Division of Surface Water.

**Shelly Materials Inc.**  
**PTI Application: 06 07220**  
**Issued**

**Facility ID: 0664950004**

**Emissions Unit ID: F001**

**B. Operational Restrictions**

1. The annual aggregate throughput for this emissions unit shall not exceed 100,000 tons per year.

### C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the aggregate throughput for this emissions unit.
2. For material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Operations</u>	<u>Minimum Inspection Frequency</u>
All	Once During Each Day of Operation

3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
  - c. the dates the control measure(s) was (were) implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d. shall be kept separately for the hopper loading, transfer points, and conveyors, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

### D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The quarterly reports shall be submitted in accordance with the General Terms and Conditions of this permit.

2. The permittee shall submit annual reports that identify any exceedances of the annual production rate limitation in term B.1. These reports shall be submitted to the Ohio EPA Southeast District Office by January 31 of each year.

#### E. Testing Requirements

Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

1. Emission Limitation:  
PE shall not exceed 1.4 lbs/hr and 0.4 ton per year.

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be demonstrated by the following one-time calculation based on the emission factors in AP-42 sections 13.2.4 (Aggregate Handling and Storage Piles, 1/95) and 11.19.2 (Crushed Stone Processing, 1/95) and the maximum production rate of 170 TPH.

$$\begin{aligned}
 \text{PE} &= \text{Loading} + \text{Material Handling} \\
 &= (\text{EF} \times \text{Max. Rate}) + (\#\text{conveyors} + \#\text{transfer pts}) \times (\text{EF} \times \text{Max. Rate}) \\
 &= (0.00676 \text{ lb/ton} \times 170 \text{ tons/hr}) + (6 \times 0.000101 \text{ lb/ton} \times 85 \text{ tons/hr}) + (8 \times 0.000101 \times \\
 &170 \text{ tons/hr}) \\
 &= 1.34 \text{ lbs/hr}
 \end{aligned}$$

Compliance with the annual emission limitation shall be demonstrated by the following one-time calculation based on the emission factors in AP-42 sections 13.2.4 (1/95) and 11.19.2 (1/95) and the maximum annual throughput of 100,000 tons per year.

$$\begin{aligned}
 \text{PE} &= [(\text{EF} \times \text{Max. Annual}) + (\#\text{conveyors} + \#\text{transfer pts}) \times (\text{EF} \times \text{Max. Annual})] \times 0.0005 \text{ ton/lb} \\
 &= [(0.00676 \text{ lb/ton} \times 100,000 \text{ tons/yr}) + (6 \times 0.000101 \text{ lb/ton} \times 50,000 \text{ tons/yr}) + (8 \times \\
 &0.000101 \times 100,000 \text{ tons/yr})] \times 0.0005 \text{ ton/lb} \\
 &= 0.39 \text{ ton/yr}
 \end{aligned}$$

2. Emission Limitation:  
Visible particulate emissions shall not exceed 10% opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

#### F. Miscellaneous Requirements

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:
  - a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - b. the portable emissions unit is operating pursuant to a currently effective permit to install, permit to operate or registration;
  - c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Southeast District Office (SEDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and,
  - d. in the SEDO's and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
  - a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - b. the portable emissions unit is equipped with best available technology;
  - c. the portable emission unit owner has identified the proposed site to Ohio EPA;
  - d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
  - e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published

in the county where the proposed site is located;

- f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and,
- g. the portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to this section, shall be valid for no longer than three years and are subject to renewal.

- 3. In order for the SEDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the SEDO (2195 Front Street, Logan, Ohio 43138) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the SEDO and/or the appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.
- 4. The permittee should be advised that when portable emission units are located at a stationary source or at a source comprised of portable emission units, potential emissions from the portable emission units are included in the facility potential to emit calculations for Title V and PSD applicability.

The permittee shall include a potential to emit analysis of facility-wide emissions (including the portable sources) for the proposed relocation in the "Notice of Intent to Relocate".

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P001 - Portable 215 HP CAT 3208 Diesel Generator	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-07(A)(1)
	OAC rule 3745-17-11(B)(5)(a)
	OAC rule 3745-35-07(B)

Emissions Unit ID: P001

OAC rule 3745-18-06(B)

OAC rule 3745-23-06(B)

Applicable Emissions  
Limitations/Control Measures

Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 0.5 lb/hr.

Nitrogen oxides (NO<sub>x</sub>) emissions shall not exceed 6.7 lbs/hr.

Volatile organic compound (VOC) emissions shall not exceed 0.6 lb/hr.

Carbon monoxide (CO) emissions shall not exceed 1.5 lbs/hr.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-35-07(B), 3745-17-11(B)(5)(a) and 3745-17-07(A).

SO<sub>2</sub> emissions shall not exceed 1.1 tons per rolling, 12-month period.

NO<sub>x</sub> emissions shall not exceed 15.4 tons per rolling, 12-month period.

VOC emissions shall not exceed 1.3 tons per rolling, 12-month period.

CO emissions shall not exceed 3.4 tons per rolling, 12-month period.

Particulate emissions (PE) shall not exceed 0.9 ton per rolling, 12-month period.

See Section B.2. below.

Visible emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule

PE from the engine exhaust shall not exceed 0.25 lb/MMBTU actual heat input. See A.I.2.a below.

PE from the engine exhaust shall not exceed 0.310 lb/MMBTU actual heat input. See A.I.2.b below.

See Section A.2.c below.

See Section A.2.d below.

## 2. Additional Terms and Conditions

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 MMBTU/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 1.2 MMBTU/hr.
- 2.d** The permittee has satisfied the "latest available control techniques and operating practices required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

## B. Operational Restrictions

- 1.** The permittee shall only burn No. 2 or diesel fuel, containing no greater than 0.5% sulfur by weight, in this emissions unit.
- 2.** The permittee has requested a federally enforceable limitation on operating hours for the purpose of limiting potential to emit to avoid possible future Title V applicability associated with relocation of this portable source. Therefore, the maximum number of operating hours for this emissions unit shall not exceed 4,608 hours based upon a rolling, 12-month summation. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours specified in the following table:

<u>Month(s)</u>	<u>Maximum Cumulative Operating Hours</u>
1	922
1-2	1,844
1-3	2,766
1-4	3,688

1-5	4,608
1-6	4,608
1-7	4,608
1-8	4,608
1-9	4,608
1-10	4,608
1-11	4,608
1-12	4,608

After the first 12 calendar months of operation following the startup of this emissions unit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

### C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the sulfur content of all fuels received for use in this emissions unit.
2. For each day during which the permittee burns a fuel other than No. 2 or diesel fuel containing no greater than 0.5% sulfur by weight in this emissions unit, the permittee shall maintain a record of the type and quantity of fuel burned.
3. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. The monthly hours of operation.
  - b. During the first 12 calendar months of operation following the issuance of this permit, the cumulative hours of operation, calculated by adding the current month's operating hours to the operating hours for each calendar month since the issuance of this permit.
  - c. Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the hours of operation, calculated by adding the current month's operating hours to the operating hours for the preceding eleven calendar months.

### D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than No. 2 or diesel fuel containing no greater than 0.5% sulfur by weight was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall submit quarterly deviation (excursion) reports which identify the following:
  - a. For the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative hours of operation.
  - b. Any exceedance of the rolling, 12-month hours of operation limitation.
  - c. Any exceedance of the fuel sulfur content restriction specified in Section B.1.

These deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.

## E. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:  
 SO<sub>2</sub> emissions shall not exceed 0.5 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one-time calculation using the emission factor of 0.00205 lb/HP-hr from AP-42, Table 3.3-1 (Gasoline and Diesel Industrial Engines, 10/96) and the maximum rated capacity of 215 HP.

$$\begin{aligned} \text{SO}_2 &= \text{EF} \times \text{HP} \\ &= 0.00205 \text{ lb/HP-hr} \times 215 \text{ HP} = 0.44 \text{ lb/hr} \end{aligned}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

- b. Emission Limitation:  
 SO<sub>2</sub> emissions shall not exceed 1.1 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.00205 lb/HP-hr from AP-42, Table 3.3-1 (10/96), by the maximum rated capacity of 215 HP and by the total number of hours operated per rolling, 12-month period, as recorded in Section C.3.c., and dividing by 2000 lbs/ton.

- c. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 6.7 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one-time calculation using the emission factor of 0.031 lb/HP-hr from AP-42, Table 3.3-1 (Gasoline and Diesel Industrial Engines, 10/96) and the maximum rated capacity of 215 HP.

$$\begin{aligned}\text{NO}_x &= \text{EF} \times \text{HP} \\ &= 0.031 \text{ lb/HP-hr} \times 215 \text{ HP} \\ &= 6.67 \text{ lbs/hr}\end{aligned}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

- d. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 15.4 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.031 lb/HP-hr from AP-42, Table 3.3-1 (10/96), by the maximum rated capacity of 215 HP and by the total number of hours operated per rolling, 12-month period, as recorded in Section C.3.c., and dividing by 2000 lbs/ton.

- e. Emission Limitation:  
VOC emissions shall not exceed 0.6 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one-time calculation using the emission factor of 0.00251 lb/HP-hr from AP-42, Table 3.3-1 (Gasoline and Diesel Industrial Engines, 10/96) and the maximum rated capacity of 215 HP.

$$\begin{aligned}\text{VOC} &= \text{EF} \times \text{HP} \\ &= 0.00251 \text{ lb/HP-hr} \times 215 \text{ HP} \\ &= 0.54 \text{ lb/hr}\end{aligned}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25A.

- f. Emission Limitation:  
VOC emissions shall not exceed 1.3 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.00251 lb/HP-hr from AP-42, Table 3.3-1 (10/96), by the maximum rated capacity of 215 HP and by the total number of hours operated per rolling, 12-month period, as recorded in Section C.3.c., and dividing by 2000 lbs/ton.

- g. Emission Limitation:  
CO emissions shall not exceed 1.5 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one-time calculation using the emission factor of 0.00668 lb/HP-hr from AP-42, Table 3.3-1 (Gasoline and Diesel Industrial Engines, 10/96) and the maximum rated capacity of 215 HP.

$$\begin{aligned}\text{CO} &= \text{EF} \times \text{HP} \\ &= 0.00668 \text{ lb/HP-hr} \times 215 \text{ HP} \\ &= 1.44 \text{ lbs/hr}\end{aligned}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

**Shelly Materials Inc.**  
**PTI Application: 06 07220**  
**Issued**

**Facility ID: 0664950004**

Emissions Unit ID: **P001**

- h. Emission Limitation:  
CO emissions shall not exceed 3.4 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.00668 lb/HP-hr from AP-42, Table 3.3-1 (10/96), by the maximum rated capacity of 215 HP and by the total number of hours operated per rolling, 12-month period, as recorded in Section C.3.c., and dividing by 2000 lbs/ton.

i. Emission Limitation:

PE from the engine exhaust shall not exceed 0.25 lb/MMBTU actual heat input.

Applicable Compliance Method:

The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96). The Ohio EPA revised the emission limitation specified in this rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/MMBTU actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/MMBTU actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

j.. Emission Limitation:

PE from the engine exhaust shall not exceed 0.310 lb/MMBTU actual heat input.

Applicable Compliance Method:

Compliance shall be demonstrated using the emission factor of 0.31 lb/MMBTU from AP-42, Table 3.3-1 (Gasoline and Diesel Industrial Engines, 10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

k. Emission Limitation:

PE shall not exceed 0.9 ton per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.31 lb/MMBTU from AP-42, Table 3.3-1 (10/96), by the maximum fuel heat input of 1.2 MMBTU/hr and by the total number of hours operated per rolling, 12-month period, as recorded in Section C.3.c., and dividing by 2000 lbs/ton.

1. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 9.

## F. Miscellaneous Requirements

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:
  - a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - b. The portable emissions unit is operating pursuant to a currently effective PTI, permit to operate (PTO) or registration status;
  - c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Southeast District Office (SEDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and,
  - d. In the SEDO's and appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.
2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:
  - a. The portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - b. The portable emissions unit is equipped with best available technology;

- c. The portable emission unit owner has identified the proposed site to Ohio EPA;
- d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- e. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
- f. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and,
- g. The portable emissions unit owner has provided the Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to this section, shall be valid for no longer than three years and are subject to renewal.

- 3. In order for the SEDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the SEDO (2195 Front Street, Logan, Ohio 43138) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the SEDO and/or the appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.
- 4. The permittee should be advised that when portable emission units are located at a stationary source or at a source comprised of portable emission units, potential emissions from the portable emission units are included in the facility potential to emit calculations for Title V and PSD applicability.

The permittee shall include a potential to emit analysis of facility-wide emissions (including the portable sources) for the proposed relocation in the "Notice of Intent to Relocate".