

SUPPLEMENT to PERMIT No. 71-01
United Abrasive, Inc.
Vulcan, Michigan
August 3, 2001

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, altered, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. [R 336.1201(1)]
2. If the installation, reconstruction, relocation, or alteration of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the person to whom this permit was issued, or the designated authorized agent, shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, PO Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or alteration of the equipment allowed by this Permit to Install. [R 336.1201(4)]
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. [R 336.1201(6)(b)]
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. [R 336.1201(8), Section 5510 of Act 451, PA 1994]
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219. The written request shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. [R 336.1219]
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. [R 336.1901]
7. The owner or operator of a source, process, or process equipment shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant in excess of standards for more than one hour, or of any air contaminant in excess of standards for more than two hours, as required in this

- rule, to the District Supervisor, Air Quality Division. The notice shall be provided no later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the District Supervisor within 30 days, with the information required in this rule. [R 336.1912]
8. Approval of this permit does not exempt the person to whom this permit was issued from complying with any future applicable requirements which may be promulgated under Part 55 of Act 451, PA 1994 or the Federal Clean Air Act.
 9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
 10. Operation of this equipment may be subject to other requirements of Part 55 of Act 451, PA 1994, and the rules promulgated thereunder.
 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. [R 336.1301]
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this permit to install.
 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). [R 336.1370]
 13. Except as allowed by Rule 285 (a), (b), and (c), permittee shall not substitute any fuels, coatings, nor raw materials for those described in the application and allowed by this permit, nor make changes to the process or process equipment described in the application, without prior notification to and approval by the Air Quality Division. [R 336.1201(1)]
 14. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. [R 336.2001]

SPECIAL CONDITIONS
 August 20, 2001

This permit covers the emission units defined in the following table.

Emission Unit ID	Associated Equipment	Stack ID	Reference No.
EU-ROTARY DRYER	A rotary dryer/calcliner with associated cyclone and baghouse (4,000 cfm).	SV0001	1

EU-ROTARY DRYER

Emission Limits

	Pollutant	Equipment	Limit	Time Period	Applicable Rules
1.1	Particulate	EU-ROTARY DRYER	0.2 pounds	Per hour	R 336.1205 R 336.1331
1.2	Particulate	EU-ROTARY DRYER	0.8 tons per year (typ)	12-month rolling period	R 336.1205 R 336.1331
1.3	Particulate	EU-ROTARY DRYER	0.01 lbs/1,000 lbs exhaust gas calculated on a dry gas basis	NA	R 336.1205 R 336.1301 R 336.1331

Visual Emission Limits

- 1.4 Visible emissions from EU-ROTARY DRYER shall not exceed a six-minute average of 5 percent opacity. **[R 336.1301]**

Material Usage Limits

- 1.5 The permittee shall not process more than 2,100 pounds per hour nor 9,198 tons of abrasive materials per 12-month rolling time period as determined at the end of each calendar month through EU-ROTARY DRYER. **[R 336.1205 and R 336.1225]**
- 1.6 The permittee shall not process any asbestos tailing or asbestos containing materials in EU-ROTARY DRYER pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 61, Subpart M. **[40 CFR 61]**

Process Limits

- 1.7 The permittee shall maintain a minimum temperature of 1600°F and a minimum retention time of 0.5 seconds in EU-ROTARY DRYER. **[R 336.1205, R 336.1225, R 336.1702(a), and R 336.1910]**

Equipment Limits

- 1.8 The permittee shall not operate EU-ROTARY DRYER unless the cyclone and baghouse are installed and operating properly. **[R 336.1205, R 336.1331, and R 336.1910]**
- 1.9 The permittee shall not operate EU-ROTARY DRYER unless a gauge which measures the pressure drop across the baghouse collector is installed and operating properly. **[R 336.1224, R 336.1331, R 336.1901, and R 336.1910]**

Monitoring

- 1.10 The permittee shall monitor and record the temperature in EU-ROTARY DRYER on a continuous basis in a manner and with instrumentation acceptable to the District Supervisor, Air Quality Division. All temperature data shall be kept on file for a period of at least five years and made available to the Department upon request. **[R 336.1205, R 336.1225, R 336.1702(a), and R 336.1910]**

Recordkeeping/Reporting/Notification

- 1.11 The permittee shall keep a written record, on a monthly basis, of the amount of abrasive materials processed and the daily hours of operation of EU-ROTARY DRYER. The information shall be kept on file for a period of at least five years and made available to the Air Quality Division upon request. **[R 336.1205]**
- 1.12 A written notification of the actual date of initial startup of EU-ROTARY DRYER is required to comply with the Federal Standards of Performance for New Stationary Sources, as specified in 40 CFR, Part 60, Subpart A. This notification shall be submitted to the Air Quality Division within 15 days after the startup date. **[40 CFR 60.730]**
- 1.13 The permittee shall comply with all applicable provisions of the Federal Standards of Performance for New Stationary Sources, as specified in 40 CFR, Part 60, Subpart A and UUU. **[40 CFR 60.730]**

Stack/Vent Conditions

1.14 The exhaust gases from EU-ROTARY DRYER shall be discharged unobstructed vertically upwards to the ambient air from stacks with the following parameters:

Stack ID	Description	Maximum Diameter (inches)	Minimum Exit Point above Ground Level (feet)	Applicable Rules
SV0001	EU-ROTARY DRYER Baghouse Exhaust	13	60	R 336.1225 R 336.1901 40 CFR 52.21(c) &(d)