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Facility Name: **DTR Industries**

Application Number: **03-3085**

Date: **June 23, 1999**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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

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approval constitutes a violation of Ohio Administrative Code (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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION 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 and regulations.

Facility Name: **DTR Industries**Application Number: **03-3085**Date: **June 23, 1999**AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **DTR Industries** located in **Allen** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

| Ohio EPA Source Number | Source Identification Description | BAT Determination | Applicable Federal & OAC Rules | Permit Allowable Mass Emissions and/or Control/Usage Requirements |
|---------------------------------|--|---|--------------------------------------|--|
| P062 | Automated chemical weighing and conveyance system - solids and liquids | Use of baghouse, use of nonphoto- chemically reactive materials and compliance with the terms and conditions of this permit | 3745-31-05 | 0.043 pound/hour particulate emissions (PE), 0.19 ton/year |
| | | | | 0.048 pound/hour organic compounds (OC), 0.21 ton/year |
| | | | 3745-17-07 | 20 percent opacity, except as provided by rule |
| | | | 3745-17-11 | * |
| | | | 3745-21-07 (G) | Not applicable as long as the permittee uses nonphoto- chemically reactive materials |
| P063 | Automated carbon black weighing and conveyance system | Use of baghouse, and compliance with the terms and conditions of this permit | 3745-31-05 | 0.18 pound/hour particulate emissions (PE), 0.79 ton/year |
| | | | | 3745-17-07 |

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| <u>Ohio EPA Source Number</u> | <u>Source Identification Number</u> | <u>BAT Determination</u> | <u>Applicable Federal & OAC Rules</u> | <u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u> |
|-------------------------------|-------------------------------------|--|---|---|
| P063 Cont'd | | | | as provided by rule |
| | | | 3745-17-11 | * |
| P064 | Banbury mixer no. 2 | Use of baghouse, use of nonphoto-chemically reactive materials and compliance with the terms and conditions of this permit | 3745-31-05 | 0.58 pound/hour particulate emissions (PE), 2.54 ton/year |
| | | | 3745-17-07 | 0.65 pound/hour organic compounds (OC), 2.85 tons/year |
| | | | 3745-17-11 | 20 percent opacity, except as provided by rule |
| | | | 3745-21-07 (G) | * |
| | | | | Not applicable as long as the permittee uses nonphoto-chemically reactive materials |
| P065 | Roll mill no. 2 | Use of baghouse, use of nonphoto-chemically reactive materials and compliance with the terms and conditions of this permit | 3745-31-05 | 0.58 pound/hour particulate emissions (PE), 2.54 tons/year |
| | | | | 0.65 pound/hour organic compounds (OC), 2.85 tons/year |
| | | | 3745-17-07 | 20 percent opacity, except as provided by |

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| <u>Ohio EPA Source Number</u> | <u>Source Identification Number</u> | <u>BAT Determination</u> | <u>Applicable Federal & OAC Rules</u> | <u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u> |
|-------------------------------|-------------------------------------|--------------------------|---|--|
| P065 Cont'd | | | | rule |
| | | | 3745-17-11 | * |
| | | | 3745-21-07 (G) | Not applicable as long as the permittee uses nonphoto-chemically reactive materials. |

* The emission limit based on this applicable rule is less stringent than the limit established pursuant to OAC 3745-31-05.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

| <u>Pollutant</u> | <u>Tons/Year</u> |
|------------------|------------------|
| PE | 6.06 |
| OC | 5.91 |

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

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MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

Introduction

This Permit to Install (PTI) is for a new automated chemical weighing system (emissions unit P062) and carbon black weighing system (emissions unit P063). The previous systems were not operating under any prior air permits. Also, this PTI is for a new (second) production line with a 'banbury' mixer (emissions unit P064) and roll mill (P065).

A. Applicable Emission Limitations and/or Control Requirements

1. Particulate emissions from emissions units P062, P063, P064, and P065 shall be controlled with a baghouse. The permittee shall also comply with the other applicable emission limitations and/or control requirements as specified in the Air Emission Summary.

B. Operational Restrictions

1. The pressure drop across the baghouse for emissions unit P062 shall be maintained within the range of 1.5 to 8 inches of water while the emissions unit is in operation.
2. The pressure drop across the baghouse for emissions unit P063 shall be maintained within the range of 4 to 9 inches of water while the emissions unit is in operation.

3. The pressure drop across the baghouse for emissions units P064 and P065 shall be maintained within the range of 2 to 3 inches of water while the emissions unit is in operation.
4. The permittee shall only use non-photochemically reactive materials (as defined in OAC 3745-21-01(C)(5)) in emissions units: P062, P064, and P065.

C. Monitoring and Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouses while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouses on a weekly basis.
2. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouses did not comply with the allowable range specified above. These reports shall be submitted in accordance with condition (D)(3) below.
2. Quarterly written reports of 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, the probable cause of such deviations, and any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA, Northwest District Office. 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.)

E. Testing Requirements/ Compliance Method Determinations

1. Emission Limitations

| | |
|---------------------|---|
| Emissions unit P062 | 0.043 lb/hr particulate emissions (PE), 0.19 ton/yr |
| Emissions unit P063 | 0.18 lb/hr PE, 0.79 ton/yr PE |
| Emissions unit P064 | 0.58 lb/hr PE, 2.54 tons/yr PE |
| Emissions unit P065 | 0.58 lb/hr PE, 2.54 tons/yr PE |

Applicable Compliance Method

The permittee shall demonstrate compliance with the above limits by using the emission factor of 0.0136 lb/ lb of product, from the Rubber Manufacturers Association's (RMA's) 'Emission Factors Development Project', a minimum particulate control efficiency of 99 percent, and the maximum capacity of each unit.

If required, the permittee shall demonstrate compliance with the above emission limit in accordance with 40 CFR 60, Appendix A, Method 5.

2. Emission Limitations

| | |
|---------------------|---|
| Emissions unit P062 | 0.048 lb/hr organic compounds (OC), 0.21 ton/yr |
| Emissions unit P064 | 0.65 lb/hr OC, 2.85 tons/yr OC |
| Emissions unit P065 | 0.65 lb/hr OC, 2.85 tons/yr OC |

Applicable Compliance Method

The permittee shall demonstrate compliance with the above limits by using the emission factor of 0.000153 lb /lb of product, from the Rubber Manufacturers Association's (RMA) 'Emission Factors Development Project', and the maximum capacity of each unit.

If required, the permittee shall demonstrate compliance with the above emission limit in accordance with 40 CFR 60, Appendix A, Method 18, 25, or 25A, as applicable.

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3. Emission Limitation

20 percent opacity, except as provided by rule, for emissions units P062, P063, P064, and P065

Applicable Compliance Method

OAC 3745-17-03(B)(1)

4. The hourly particulate emissions (PE) and organic compounds (OC) limits are based on each emissions unit's potential to emit. Therefore, no hourly recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limit.

F. Miscellaneous Requirements

1. None.