OhioEPA
State of Ohio Environmental Protection Agency

STREET ADDRESS:
1800 WaterMark Drive
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:
P.O. Box 1049
Columbus, OH 43216-1049

Re: Permit to Install
Lorain County
Application No: 02-0954
SYNTHETIC MINOR

CERTIFIED MAIL

September 24, 1997

OBERLIN WATER TREATMENT PLANT
ROBERT O. MORSE
289 S. PROFESSOR STREET
OBERLIN, OH 44074

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 with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's 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
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations & Permit Section
Division of Air Pollution Control

RECEIVED
SEP 30 1997
OHIO EPA NEDO

cc: US EPA
NORTHEAST DISTRICT OFFICE, DAPC



George V. Voinovich, Governor
Nancy P. Hollister, Lt. Governor
Donald R. Schregardus, Director

OhioEPA

State of Ohio Environmental Protection Agency

# Permit to Install
# Terms and Conditions

Application No. 02-0954
APS Premise No. 0247100934
Permit Fee: $100.00

Name of Facility: OBERLIN WATER TREATMENT PLANT

Person to Contact: ROBERT O. MORSE

Address: 289 S. PROFESSOR STREET
OBERLIN, OH 44074

Location of proposed source(s): 43885 PARSONS ROAD
OBERLIN, OHIO

Description of proposed source(s):
WAUKESHA MODEL VHP3600GL, 6.45 MMBTU/HR - 525 KW, NAT GAS-FU ELED, INTERNAL COMBUSTION ENGINE/GENERATOR SET.

Date of Issuance: September 24, 1997

Effective Date: September 24, 1997

The above named entity is hereby granted a permit to install for the above described source(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 source(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 source(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

Donald R Schregardus

Director

**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 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.

**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.

**AIR EMISSION SUMMARY**

The air contaminant sources listed below comprise the Permit to Install for OBERLIN WATER TREATMENT PLANT located in Lorain County. The sources 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 |
|---|---|---|---|---|
| B001 | Oberlin engine No. 10; Waukesha model VHP3600GL, 6.45 mmBtu/hr, 525 KW, natural gas-fueled, internal combustion engine/ generator set | Allowable $NO_x$ emissions to equal uncontrolled $NO_x$ emissions-maximum annual $NO_x$ emissions to be limited to 24.99 TPY by restricting annual operating hours to 2094; Particulate emissions rate to be 0.02 lb/mmBtu; Visible emissions restricted to 20% opacity as a 6-minute average | 3745-31-05<br>3745-17-07<br>3745-17-10 | $NO_x$ = 23.87 lbs/hr and 24.99 TPY<br>CO = 3.02 lbs/hr and 3.16 TPY<br>Particulates = 0.02 lb/mmBtu or 0.13 lbs/hr and 0.14 TPY |

**SUMMARY**
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| Pollutant | Tons/Year |
|---|---|
| $NO_x$ | 24.99 |
| CO | 3.16 |
| Particulates | 0.14 |

**RECORD(S) RETENTION AND AVAILABILITY**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to OEPA Northeast District Office - DAPC, 2110 East Aurora Road, Twinsburg, Ohio 44087.

**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.

**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 OEPA Northeast District Office - DAPC, 2110 East Aurora Road, Twinsburg, Ohio 44087.

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.

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**A. Mass Allowable Emission Limitations**

1. This emissions unit shall be limited, through federally enforceable/synthetic minor restrictions, to maximum

annual Nitrogen Oxides ($NO_x$) emissions of 24.99 tons by restricting the operations of this engine/generator set as follows:

a. the fuel used in this internal combustion engine driven electric generator set shall be restricted to natural gas only;

b. the total annual operating time for this emissions unit, measured on a rolling 365-day cumulative total basis, shall not exceed 2094 hours; and,

c. effective monitoring of these operating restrictions shall be accomplished through the recordkeeping and reporting requirements listed below.

B. **Recordkeeping Requirements**

1. This facility shall maintain daily records of the operation of this natural gas-fired engine-generator set which indicate the following:

   a. the date and time of each start-up and shut-down of this emissions unit;

   b. the number of hours each day that this emissions unit is operated;

   c. the total cumulative hours of operation of this emissions unit on a rolling 365 day basis;

   d. the volume of natural gas consumed by this emissions unit on a monthly basis; and,

   e. the maximum sustained generator load during each period of operation of this engine-generator set.

2. These records, as well as any supporting information relative to the fuel use or other operating parameters of this emissions unit, shall be maintained in a file at this facility for a period of not less than three (3) years and shall be made available to the Director or any authorized representative of the Director for review during normal business hours.

C. **Reporting Requirements**

1. The permittee shall immediately report to the Ohio EPA any exceedance of the operating restrictions for this source listed in Section A, paragraphs (1.a.) and (1.b.), above.

2. The permittee shall submit a semi-annual report to the Ohio Environmental Protection Agency Northeast District

Office which summarizes, on a monthly and rolling 365-day basis, the recorded data indicated above relative to the operation of this emissions unit. This report shall be submitted by February 1 and August 1 of each year for source operating data recorded during the previous six (6) month period (July through December and January through June, respectively) of the year.

All reports and notifications required by this permit shall be directed to:

Ohio Environmental Protection Agency
Northeast District Office
2110 East Aurora Road
Twinsburg, Ohio 44087
Phone: (216) 963-1200