



STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF AIR QUALITY
655 S. Bay Road, Suite 5N
DOVER, DELAWARE 19901

Telephone: (302) 739 - 9402
Fax No.: (302) 739 - 3106

July 30, 2012

Permit: APC-1994/0655-OPERATION (Amendment 2)

Kent County Levy Court
Calcium Oxide Storage Silo
Kent County Regional Wastewater Treatment Plant
139 Milford Neck Road
Milford, DE 19963

ATTENTION: Jim Newton, P.E., BCEE
Environmental Program Manager

Dear Mr. Newton:

Pursuant to **7 DE Admin. Code** 1102, Section 2, approval of the Department of Natural Resources and Environmental Control (the Department) is hereby granted for the operation of a 30 ton capacity calcium oxide (quicklime) storage silo to include one (1) O.A. Newton and Sons bin vent filter BV1000-3616 located at the Kent County Regional Wastewater Treatment Plant in Milford, Delaware, in accordance with the application submitted on Form No. AR-4, dated July 22, 1993, signed by Petra Fruehbis, the amendments to the application submitted on September 20, 1993 by Robert Shannon, Jr., the transfer of ownership letter dated November 14, 2006 signed by Hans Medlarz, Public Works Director, and Form Nos. AQM-1, AQM-2, AQM-3.7, AQM-4.6 and AQM-5 dated May 2, 2012 signed by Jim Newton, P.E., BCEE, Environmental Program Manager.

This permit is issued subject to the following conditions:

1. General Provisions

- 1.1 Representatives of the Department may, at any reasonable time, inspect this facility.
- 1.2 The owner or operator shall not initiate construction, install, or alter any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department pursuant to **7 DE Admin. Code** 1102, and, when applicable **7 DE Admin. Code** 1125, and receiving approval of such application from the Department; except as exempted in **7 DE Admin. Code** 1102 Section 2.2.
- 1.3 This permit may not be transferred to another location or to another piece of equipment or process.

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- 1.4 This permit may not be transferred to another person, owner, or operator unless the transfer has been approved in advance by the Department. Approval (or disapproval) of the permit transfer will be provided by the Department in writing. A request for a permit transfer shall be received by the Department at least thirty (30) days before the date of the requested permit transfer. This request shall include:
 - 1.4.1 Signed letters from each person stating the permit transfer is agreeable to each person; and
 - 1.4.2 An Applicant Background Information Questionnaire pursuant to 7 Del C, Chapter 79 if the person receiving the permit has not been issued any permits by the Department in the previous five (5) years.

2. Emission Limitations

- 2.1 Air contaminant emission levels shall not exceed those specified in 7 **DE Admin. Code** 1100 and the following:
 - 2.1.1 Particulate Matter (PM) Emissions
 - 2.1.1.1 PM emissions shall not exceed 0.25 pounds per hour and 0.89 tons per twelve (12) month rolling period.
 - 2.1.1.2 Particulate emissions to the atmosphere from this source shall not exceed 0.2 grain per standard cubic foot.
- 2.2 No person shall cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty (20%) percent opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period.
- 2.3 Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution.

3. Operational Limitations

- 3.1 The owner or operator shall comply with the following operational limits:
 - 3.1.1 The bin vent baghouse shall be equipped with a working differential pressure gauge.
 - 3.1.2 The bin vent baghouse differential pressure gauge shall be located where the gauge is able to be easily read by the process operator.
 - 3.1.3 The contents of the silo shall not be added to or removed from the silo unless the corresponding baghouse is operating properly.
 - 3.1.4 The Company shall perform daily qualitative visual observation of the bin vent baghouse stack. If opacity is observed, the Company shall troubleshoot the system to correct the problem.

Permit: APC-1994/0655-OPERATION (Amendment 2)

Kent County Levy Court

Kent County Regional Wastewater Treatment Facility

July 30, 2012

Page 3

- 3.1.5 The bin vent baghouse shall be operated and maintained in accordance with the manufacturer's recommendations.
- 3.1.6 Operating hours shall be limited to 7,200 hours per twelve (12) month rolling period.
- 3.2 The operational limitation of Condition 3.1.6 is a voluntary restriction taken by the Company to limit emissions of particulate to below the five (5) ton per year applicability threshold of 7 **DE Admin. Code** 1125, Section 4, Minor New Source Review. The Company shall meet the control technology requirements of Minor New Source Review, 7 **DE Admin. Code** 1125, Section 4, if the Company requests an increase in operating hours that results in a PM2.5 Potential to Emit above five tons per year.
- 3.3 At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- 3.4 All structural and mechanical components of the equipment or process covered by this Permit shall be maintained in proper operating condition.

4. Testing and Monitoring Requirements

- 4.1 The Department reserves the right to require that the owner or operator perform emission tests using methods approved in advance by the Department.

5. Record Keeping Requirements

- 5.1 The owner or operator shall maintain all records necessary for determining compliance with this permit in a readily accessible location for five (5) years and shall make these records available to the Department upon written or verbal request.
- 5.2 The following information shall be recorded, initialed and maintained in a log.
 - 5.2.1 Each shift, the pressure drop across the baghouse in inches of water.
 - 5.2.2 All routine and non-routine maintenance performed on the baghouse and ancillary equipment.
 - 5.2.3 Daily qualitative visual observation of the baghouse stack and steps taken to troubleshoot the operation when opacity is observed.
 - 5.2.4 Each shift, the operational status of the baghouse.
 - 5.2.5 Operating hours for the baghouse on a daily, monthly, and rolling twelve (12) month period.

5.3 The rolling twelve (12) month total emissions shall be calculated and recorded each month in a log for each of the following pollutants.

5.3.1 Particulate Matter (PM)

6. Reporting Requirements

6.1 Emissions in excess of any permit condition or emissions which create a condition of air pollution shall be reported to the Department immediately upon discovery by calling the Environmental Emergency Notification and Complaint number, (800) 662-8802.

6.2 In addition to complying with Condition 6.1 of this permit, any reporting required by 7 DE **Admin. Code 1203 "Reporting of a Discharge of a Pollutant or an Air Contaminant"**, and any other reporting requirements mandated by the State of Delaware, the owner or operator shall, for each occurrence of excess emissions, within thirty (30) calendar days of becoming aware of such occurrence, supply the Department in writing with the following information:

6.2.1 The name and location of the facility;

6.2.2 The subject source(s) that caused the excess emissions;

6.2.3 The time and date of the first observation of the excess emissions;

6.2.4 The cause and expected duration of the excess emissions;

6.2.5 For sources subject to numerical emission limitations, the estimated rate of emissions (expressed in the units of the applicable emission limitation) and the operating data and calculations used in determining the magnitude of the excess emissions; and

6.2.6 The proposed corrective actions and schedule to correct the conditions causing the excess emissions.

6.3 One original and one copy of all required reports shall be sent to the address below:

Division of Air Quality
Blue Hen Corporate Center
655 S. Bay Road, Suite 5 N
Dover, DE 19901

7. Administrative Conditions

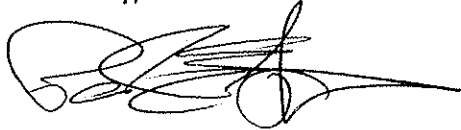
7.1 This permit supersedes **Permit: APC-1994/0655-CONSTRUCTION (Amendment 2)** dated June 1, 2012.

7.2 This permit shall be made available on the premises.

Permit: APC-1994/0655-OPERATION (Amendment 2)
Kent County Levy Court
Kent County Regional Wastewater Treatment Facility
July 30, 2012
Page 5

7.3 Failure to comply with the provisions of this permit may be grounds for suspension or revocation.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul E. Foster', with a long horizontal flourish extending to the right.

Paul E. Foster, P.E.
Program Manager
Engineering & Compliance Branch

PEF:JLF:MAS
F:\EngAndCompliance\MAS\mas12085.doc

pc: Dover File
Melanie Smith

