

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 3-3309-00064/00013 Renewal Number: 1



05/14/2007

Facility Identification Data

Name: GENPAK LLC MIDDLETOWN MAIN PLANT
Address: 26 REPUBLIC PLZ
MIDDLETOWN, NY 10940

Owner/Firm

Name: GENPAK LLC
Address: REPUBLIC PLAZA
MIDDLETOWN, NY 10940, USA
Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

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NEW PALTZ, NY 12561
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Division of Air Resources:

Name: JEFFREY C LAWYER
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Air Permitting Contact:

Name: EDWARD W RIDER, JR
Address: CORPORATE ENGINEERING GROUP
26 REPUBLIC PLAZA
MIDDLETOWN, NY 10940
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Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

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Summary Description of Proposed Project

Application for renewal of Air Title V Facility.

Attainment Status

GENPAK LLC MIDDLETOWN MAIN PLANT is located in the town of MIDDLETOWN in the county of ORANGE.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	MODERATE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

** NOx has a separate ambient air quality standard in addition to being an ozone precursor

Facility Description

THE GENPAK FACILITY IN MIDDLETOWN, NEW YORK PRODUCES FOAMED POLYSTYRENE FOOD TRAYS AND CONTAINERS USING A SINGLE SCREW AND A TANDEM SCREW SYSTEM OF EXTRUDING EXPANDED POLYSTYRENE FOAM SHEET OR EPS. THE PROCESS TAKES POLYSTYRENE PELLETS THROUGH AN EXTRUSION PROCESS WHERE A NUCLIENT (TALC) AND BLOWING AGENT ARE ADDED. THE SHEETS ARE THERMOFORMED AND CUT TO PRODUCE THE FINAL PRODUCT.

RAW MATERIALS STORAGE AND USE

THERE ARE THREE RAW MATERIALS UTILIZED FOR THE SHEET PRODUCTION AT THE PLANT; POLYSTYRENE, ISOPENTANE, AND TALC. HIGHLY POLYMERIZED POLYSTYRENE ARRIVES AT THE FACILITY AS PELLETS 1/8 INCH IN DIAMETER AND 3/16 TO 1/4 INCH LONG. THE PELLETS ARE TRANSPORTED TO THE FACILITY BY TRUCK OR RAIL CAR, AND TRANSFERRED TO A STORAGE SILO BY AN AIR CONVEYOR. IN AN EFFORT TO

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PREVENT PARTICULATE RELEASE TO THE ATMOSPHERE, THE CONVEYING AIR IS PASSED THROUGH FILTERS AT THE GRINDER ROOM. IN ADDITION, THE DISCHARGED AIR FROM SILO NO 3 AND SILO NO. 13 IS DUCTED TO THE THERMAL OXIDIZER TO CONTROL VOLATILE ORGANIC COMPOUNDS (IE. , ISOPENTANE) EMISSIONS. ISOPENTANE IS THE SELECTED BLOWING AGENT AT THE FACILITY. THE BLOWING AGENT IS ADDED TO PRODUCE THE FOAMING EFFECT IN THE POLYSTYRENE SHEETS. IT ARRIVES IN LIQUID FORM VIA TANK TRUCK OR RAIL CAR AND IS TRANSFERRED TO A 30,000 GALLON PRESSURIZED RECEIVING TANK. A VAPOR RECOVERY SYSTEM PREVENTS THE RELEASE OF ISOPENTANE VAPORS TO THE ATMOSPHERE DURING THE PRESSURIZED TRANSFER. ISOPENTANE IS A VOLATILE AND FLAMMABLE ORGANIC, AND IS THE PRIMARY EMISSIONS OF CONCERN DURING THE MANUFACTURING AND RECYCLING PROCESSES. TALC IS USED AS THE NUCLIENT IN THE GENPAK MANUFACTURING PROCESS. PELLET TALC IS PURCHASED IN 50 POUND BAG QUANTITIES. IT IS NOT A GASEOUS MATERIAL AND THE SMALL QUANTITIES USED KEEP IT FROM BECOMING A MEASURABLE SOURCE OF PARTICULATE EMISSIONS. EXTRUSION PROCESS

IN THE EPS PROCESS, THE POLYSTYRENE PELLETS ARE INTRODUCED CONTINUOUSLY TO THE EXTRUDER VIA CONVEYOR TUBES FROM BOTH THE VIRGIN POLYSTYRENE SILO AND THE RECYCLED POLYSTYRENE STORAGE AREA (THE CONVEYING AIR IS FILTERED AT THE GRINDING ROOM). THERE ARE A TOTAL OF FIVE EXTRUDERS AT THE FACILITY. AT THE THROAT OF THE EXTRUDER, ONE PERCENT TALC IS ADDED BY HAND. AFTER THE TALC HAS BEEN ADDED, THE MIXTURE ENTERS THE EXTRUDER SCREW AND THE MELTING ZONE, WHERE THE MELT TEMPERATURE OF 440 DEGREES, PRESSURE OF 3,500 TO 4,000 PSI, APPROXIMATELY 4 PERCENT TO 4.5 PERCENT BY WEIGHT OF ISOPENTANE IS INJECTED AS BLOWING AGENT. A SECOND EXTRUDER THEN RECEIVES THE MELT WHERE THE MIXTURE IS COOLED TO 290 DEGR EES, AND PRESSURE REMAINS CONSTANT. UPON EXITING THE EXTRUDER, AT THE DIE LIPS, BLOWN AIR IS USED TO "SKIN" THE FOAM AND REDUCE THE RELEASE OF ISOPENTANE. THIS AIR IS EXHAUSTED TO THE ROOF VIA THE BUILDING VENTILATION SYSTEM. FINALLY, THE MELT IS STRETCHED OUT OVER A COOLING DRUM IN A BIAXIAL ORIENTATION AND THE SHEETS ARE WOUND INTO ROLLS AND KEPT IN TEMPORARY STORAGE FOR 3 TO 7 DAYS.

MOLDING PROCESS:

THE NEXT STEP IN THE FABRICATION PROCESS IS THE SHAPING OF THE PRODUCT IN THE THERMFORMERS. THE SHEETS ARE HEATED TO APPROXIMATELY 300 DEGREES, ALLOWING MOLDING TO OCCUR. TEN THERMOFORMERS ARE AVAILABLE FOR THIS SEGMENT OF THE PROCESS. AFTER PRESSING THE SHEETS INTO THE DESIRED SHAPE FOR TRAYS OR CONTAINERS, THE SHEETS ARE CUT AND PACKED FOR SHIPPING .

SCRAP RECYCLE

SHEETS SCRAPS ARE CONVEYED FROM THE CUTTING AREA TO THE RECYCLING AREA OF THE PLANT. PELLETS SIMILAR TO THE VIRGIN POLYSTYRENE ARE FORMED



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THROUGH A REPELLETIZING PROCESS WHICH REMELTS AND RESHAPES THE RECYCLED MATERIAL. EMISSIONS FROM THE TWO (2) REPELLETIZERS ARE CAPTURED AND DUCTED TO THE THERMAL OXIDIZER TO CONTROL VOC EMISSIONS. RECYCLED POLYSTYRENE IS STORED IN THE STORAGE SILOS UNTIL IT IS REINTRODUCED WITH THE VIRGIN POLYSTYRENE IN THE PRIMARY EXTRUDERS.

PRINTING

IN ADDITION TO FOAM SHEET PRODUCTION, THERE IS A MINIMAL AMOUNT OF PRINTING WHICH OCCURS AT THE FACILITY. POLYSTYRENE SHEETS ARE PUT INTO A DRY OFF SET 2 COLOR OR 4 COLOR PRINTER. THE INK IS A PASTE LIKE MATERIAL WITH MINIMAL SOLVENTS. AFTER PRINTING, THE SHEET IS FED INTO A THERMOFORMER OVEN MAINTAINED AT 190 DEGREES F FOR THE OXIDATION DRYING OF THE INKS. THIS PROCESS INVOLVES MINIMAL EMISSIONS FROM THE VOLATILLIZATION OF THE INK COMPONENTS ETHYLHEXENEDIOL, ETHYLHEXANOL, AND HEXYLEN GLYCOL.

Permit Structure and Description of Operations

The Title V permit for GENPAK LLC MIDDLETOWN MAIN PLANT is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.

A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

GENPAK LLC MIDDLETOWN MAIN PLANT is defined by the following emission unit(s):
Emission unit UEXTRU - THE PROCESS TAKES POLYSTYRENE PELLETS THROUGH AN EXTRUSION PROCESS WHERE A NUCLIENT (TALC) AND BLOWING AGENT ARE ADDED.
It is further defined by the following process(es):

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Process: EXTPOLYSTRENE PELLETS ARE INTRODUCED TO AN EXTRUDER VIA A CONVEYOR FROM THE STORAGE SILOS. AT THE THROAT OF THE EXTRUDER, A NUCLIENT (TALC) IS ADDED BY HAND. THE MIXTURE ENTERS THE EXTRUDER SCREW AND MELT ZONE, AND THEN ISOPENTANE IS INJECTED AS A BLOWING AGENT. A SECOND EXTRUDER RECEIVES THE MIXTURE WHICH IS COOLED AT A CONSTANT PRESSURE. AFTER EXITING THE EXTRUDER, THE MIXTURE IS STRETCHED INTO FOAM SHEETS. THERE ARE A TOTAL OF FIVE EXTRUDERS AT THE FACILITY.

Emission unit USILO1 - THIS EMISSION UNIT CONSISTS OF STORAGE SILO NO. 3, STORAGE NO. 13, TWO REPELLITIZERS AND A THERMAL OXIDIZER. THE TWO REPELLITIZERS REMELT AND RESHAPE RECYCLED POLYSTYRENE MATERIAL. STORAGE SILO NO. 3 AND NO. 13 ARE USED TO STORE THE WHITE POLYSTYRENE FLUFF REGRIND MATERIAL ALL OF THESE SOURCES ARE SUBJECT TO VOC REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT). VOC EMISSIONS ARE CAPTURED AND CONTROLLED BY A THERMAL OXIDIZER WITH GREATER THAN IS 95 PERCENT DESTRUCTION EFFICIENCY.

Emission unit USILO1 is associated with the following emission points (EP):
00001

It is further defined by the following process(es):

Process: 002WHITE SILO NO. 3 AND NO. 13 ARE USED TO STORE RECYCLED WHITE POLYSTYRENE FLUFF. AIR EMISSIONS FROM BOTH SILOS ARE CAPTURED AND DUCTED TO THE THERMAL OXIDIZER TO CONTROL VOC EMISSIONS.

Process: REPTWO REPELLETIZERS USED TO REMELT AND RESHAPE THE RECYCLED SCRAPS OF EPS. AIR EMISSIONS FROM THE REPELLETIZERS ARE CAPTURED AND DUCTED TO THE THERMAL OXIDIZER TO CONTROL VOC EMISSIONS.

Emission unit USILO2 - THIS EMISSION UNIT CONSISTS OF STORAGE SILO NO. 7, NO. 8 AND NO. 16. STORAGE SILO NO. 7 IS USED TO STORE SESAME POLYSTYRENE FOAM REGRIND. STORAGE SILO NO. 8 IS USED TO STORE COLORED POLYSTYRENE FOAM REGRIND AND STORAGE SILO NO. 16 IS USED TO STORE BLACK POLYSTYRENE LAMINATION REGRIND. STORAGE SILOS NO. 7, NO. 8 AND NO. 16 HAVE BEEN IDENTIFIED AS MEETING REASONABLY AVAILABLE TECHNOLOGY PURSUANT TO 6 NYCRR 212.10(f). THE REMAINING ELEVEN STORAGE SILOS ARE USED TO STORE SOLID RAW MATERIALS (POLYSTYRENE) AND ARE EXEMPT FROM PERMITTING IN ACCORDANCE WITH 6 NYCRR PART 201-3.2(C)(27).

Emission unit USILO2 is associated with the following emission points (EP):
0SIL7, 0SIL8, SIL16

It is further defined by the following process(es):

Process: 003SESAME POLYSTYRENE FOAM REGRIND SILO NO. 7, COLORED POLYSTYRENE FOAM REGRIND SILO NO. 8 AND BLACK POLYSTYRENE LAMINATION REGRIND SILO NO. 16 ARE USED TO STORE RECYCLED POLYSTYRENE PELLETS. EACH OF THESE SOURCES ARE NOT SUBJECT TO VOC RACT.

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Emission unit UPRINT - MINIMAL PRINTING OF POLYSTYRENE SHEETS IS ACCOMPLISHED USING A DRY OFFSET 2 COLOR OR 4 COLOR PRINTER.

It is further defined by the following process(es):

Process: PRIPOLYSTYRENE SHEETS ARE PUT INTO A DRY OFFSET 2 COLOR OR 4 COLOR PRINTER. THE INK IS A PASTE LIKE MATERIAL WITH MINIMAL SOLVENTS. AFTER PRINTING, SHEETS ARE FED INTO A THERMOFORMER OVEN FOR OXIDATION DRYING OF THE INKS.

Title V/Major Source Status

GENPAK LLC MIDDLETOWN MAIN PLANT is subject to Title V requirements. This determination is based on the following information:

Emissions of volatile organic compounds from the facility are above major source thresholds, as defined in the federal Clean Air Act.

Program Applicability

The following chart summarizes the applicability of GENPAK LLC MIDDLETOWN MAIN PLANT with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	YES
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	NO
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	YES
SIP	YES

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PSD Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's)

MACT Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the

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individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
3086	PLASTICS FOAM PRODUCTS
3089	PLASTICS PRODUCTS, NEC

SCC Codes

SCC or Source Classification Code is a code developed and used by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
3-99-999-94	MISCELLANEOUS MANUFACTURING INDUSTRIES MISCELLANEOUS INDUSTRIAL PROCESSES Other Not Classified
4-05-005-97	PRINTING/PUBLISHING PRINTING/PUBLISHING - GENERAL OTHER NOT CLASSIFIED
3-08-009-01	RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS-FABRICATED PLASTIC PRODUCTS POLYSTYRENE:GENERAL

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to

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the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term ‘HAP’ refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
0NY998-00-0	VOC		>= 50 tpy but < 100 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6NYCRR Part 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of

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proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6NYCRR Part 201-6.5(a)(5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item H: Property Rights - 6 NYCRR Part 201-6.5(a)(6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit

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issuance;

- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an

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emergency.

Item L: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item M: Federally Enforceable Requirements - 40 CFR 70.6(b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the

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purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	32
U-SILO1	40CFR 64	COMPLIANCE ASSURANCE MONITORING	28
FACILITY	40CFR 68	Chemical accident prevention provisions	21
FACILITY	40CFR 82-F	Protection of Stratospheric Ozone - recycling and emissions reduction	22
FACILITY	6NYCRR 200.6	Acceptable ambient air quality.	1
FACILITY	6NYCRR 200.7	Maintenance of equipment.	10
FACILITY	6NYCRR 201-1.4	Unavoidable noncompliance and violations	33
FACILITY	6NYCRR 201-1.7	Recycling and Salvage	11
FACILITY	6NYCRR 201-1.8	Prohibition of reintroduction of collected contaminants to the air	12
FACILITY	6NYCRR 201-3.2(a)	Exempt Activities - Proof of eligibility	13
FACILITY	6NYCRR 201-3.3(a)	Trivial Activities - proof of eligibility	14
FACILITY	6NYCRR 201-6	Title V Permits and the Associated Permit Conditions	23, 24, 25
FACILITY	6NYCRR 201-6.5(a) (4)	General conditions	15
FACILITY	6NYCRR 201-6.5(a) (7)	General conditions	
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FACILITY	6NYCRR 201-6.5(a) (8)	General conditions	16
FACILITY	6NYCRR 201-6.5(c)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	3
FACILITY	6NYCRR 201-6.5(c) (2)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	4
FACILITY	6NYCRR 201-6.5(c) (3) (ii)	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring	5
FACILITY	6NYCRR 201-6.5(d) (5)	Compliance schedules	17
FACILITY	6NYCRR 201-6.5(e)	Compliance Certification	6
FACILITY	6NYCRR 201-6.5(f) (6)	Off Permit Changes	18
FACILITY	6NYCRR 202-1.1	Required emissions tests.	19
FACILITY	6NYCRR 202-2.1	Emission Statements - Applicability	7



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FACILITY	6NYCRR 202-2.5	Emission Statements - record keeping requirements.	8
FACILITY	6NYCRR 211.2	General Prohibitions - air pollution prohibited.	34
FACILITY	6NYCRR 211.3	General Prohibitions - visible emissions limited	20
U-SILO1/00001	6NYCRR 212.10 (a) (2)	NOx and VOC RACT required at major facilities	30
U-PRINT	6NYCRR 212.10 (c) (4) (ii)	NOx and VOC RACT required at major facilities	27
U-SILO1/00001	6NYCRR 212.11 (b) (1)	Sampling and monitoring	31
U-SILO1/00001	6NYCRR 212.6 (a)	General Process Emission Sources - opacity of emissions limited	29
U-SILO1	6NYCRR 212.9 (b)	General Process Emission Sources - tables	35
FACILITY	6NYCRR 215	Open Fires	9
U-EXTRU	6NYCRR 231-2.6	Emission reduction credits	26

Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-301.

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6NYCRR Part 200-.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6NYCRR Part 200-.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6NYCRR Part 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

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6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 201-3.2(a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 201-3.3(a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

6NYCRR Part 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6NYCRR 201-6.5(a)(4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6NYCRR 201-6.5(a)(7)

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This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6NYCRR 201-6.5(a)(8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6NYCRR Part 201-6.5(c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6NYCRR Part 201-6.5(c)(2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6NYCRR Part 201-6.5(c)(3)(ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6NYCRR 201-6.5(d)(5)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6NYCRR Part 201-6.5(e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6NYCRR 201-6.5(f)(6)

This condition allows changes to be made at the facility, without modifying the

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permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6NYCRR Part 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6NYCRR Part 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

6NYCRR Part 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

40 CFR Part 68.

This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of

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appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, GENPAK LLC MIDDLETOWN MAIN PLANT has been determined to be subject to the following regulations:

40CFR 64

The federal Compliance Assurance Monitoring (CAM) rule, 40 CFR Part 64, requires monitoring of control device, capture system, and/or process parameters to provide a reasonable assurance of compliance with emission limitations or standards. It applies to emission units that use a control device to comply with certain standards and limitations and that have potential pre-control device emissions equal to or greater than a major source threshold.

6NYCRR 212 .10 (a) (2)

Facilities located outside of the lower Orange County and New York City metropolitan areas with a potential to emit volatile organic compounds at a rate of 50 tons or more per year must comply with Part 212.10 Reasonably Available Control Technology for major facilities.

6NYCRR 212 .10 (c) (4) (ii)

This requirement limits the VOC content, for surface coating processes not subject to Part 228, to 3.5 pounds per gallon as applied. This limit is considered reasonably available control technology (RACT) for the process.

6NYCRR 212 .11 (b) (1)

This requirement states that the exhaust temperature from a thermal or catalytic oxidizer must be monitored and recorded.

6NYCRR 212 .6 (a)

This rule specifies an opacity limitation of less than 20% for any six consecutive minute period for all process emission sources.

6NYCRR 212 .9 (b)

This section refers to Table 2 which specifies the degree of control required for Gases and Liquid Particulate Emissions (Environmental Rating of A, B, C or D) and Solid Particulate Emissions (Environmental Rating A or D) but excluding Volatile Organic Compound Emissions in the New York City Metropolitan Area. From Table 2 a volatile organic compound emission reduction of 91 percent is required for emission unit U-SILO1, based on an emission rate potential of about 41 pounds per hour and an environmental rating of B.

6NYCRR 231-2.6

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The requirements and criteria for creating and certifying emission reduction credits (ERCs) are set forth in section 231-2.6.

Compliance Certification

Summary of monitoring activities at GENPAK LLC MIDDLETOWN MAIN PLANT:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
U-SILO1	record keeping/maintenance procedures	28
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
FACILITY	record keeping/maintenance procedures	7
U-PRINT	monitoring of process or control device parameters as surrogate	27
U-SILO1/00001	record keeping/maintenance procedures	31
U-SILO1/00001	monitoring of process or control device parameters as surrogate	29
U-SILO1	monitoring of process or control device parameters as surrogate	35
U-EXTRU	record keeping/maintenance procedures	26

Basis for Monitoring

The monitoring requirements contained in this permit are associated with applicable regulations and previous permits.