



**New York State Department of Environmental Conservation
Permit Review Report**

Permit ID: 4-0122-00004/00039

Renewal Number: 1

11/05/2010

Facility Identification Data

Name: OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH

Address: 1277 FEURA BUSH RD

FEURA BUSH, NY 12067

Owner/Firm

Name: OWENS CORNING INSULATING SYSTEMS LLC

Address: 1 OWENS CORNING PKWY

TOLEDO, OH 43659, USA

Owner Classification: Corporation/Partnership

Permit Contacts

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1277 FEURA BUSH RD

FEURA BUSH, NY 12067

Phone:5184753673

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.

Summary Description of Proposed Project

This is the first renewal of the Title V permit pursuant to Article 19 (Air Pollution Control) of the New York State Environmental Conservation Law and Title V of the federal Clean Air Act. The facility manufactures wool fiberglass insulation products and includes two glass furnaces and associated

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production lines controlled by electrostatic precipitators and other air pollution control equipment.

With this renewal, the permit has been modified to include conditions to implement provisions of the federal Compliance Assurance Monitoring (CAM) rule under 40 CFR Part 64, which requires monitoring of control device, capture system, and/or process parameters to provide a reasonable assurance of compliance with emission limitations or standards for individual sources having pre-control potential emissions that equal or exceed a major source threshold. Additionally, the permit has been modified to allow the conversion from a binder system that is currently based on a formaldehyde/phenol resin to a starch-based binder system in both bonded manufacturing lines. It is expected that the change to the new starch-based binder system will reduce the emissions of binder-related hazardous air pollutants (HAPs) at the facility by approximately 80 to 85 percent, and emissions of ammonia will be significantly lowered, as well. To account for a possible increase in actual emissions of volatile organic compounds (VOC) as a result of using the starch-based binder system, the facility is accepting a limit (or cap) on VOC emissions across its two manufacturing lines to maintain the increase to less than 40 tons per year, thereby avoiding nonattainment new source review requirements under 6 NYCRR Part 231. The switch to the starch-based binder system will not change the emissions of other criteria air pollutants. The United States Environmental Protection Agency (USEPA) has made a determination, as it has done for similar wool fiberglass manufacturing plants elsewhere, that the completion of the change to a non-formaldehyde/non-phenol, starch-based binder system will result in the OCIS Delmar Plant no longer being subject to the National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing, 40 CFR 63, Subpart NNN. With the modification to convert to a new starch-based binder system, ten new storage tanks will be constructed/installed within existing facility structures and existing 6 NYCRR Part 201 defined emission units and one existing tank will be modified. The binder related materials to be stored and the size of the tanks are as follows: two maltodextrin tanks at 15,227 gallons each; one sodium hydroxide tank at 13,900 gallons; one sodium hypophosphite tank at 6,186 gallons, one citric acid tank at 8,225 gallons; and six tanks ranging from 900 to 2,000 gallons each for hood wall wash water recirculation, binder make-up water storage, binder mix storage, and binder circulation. Note that storage tanks with capacities of less than 10,000 gallons are considered exempt activities under 6 NYCRR Subpart 201-3.

Overall, the affected sources (emission units and processes) for the DM-1 and DM-2 manufacturing lines as a result of the proposed starch-based binder conversion project are as follows:

- Fiber/pack forming and curing sections (DM-1 Line: Emission Unit U-00003, Process IDs FZ1, FZ2, CO, ME1 and DM-2 Line: Emission Unit U-00013, Process ID FC2)
- Smoke strippers and cooling sections (DM-1 Line: Emission Unit U-00003, Process IDs BP1, CS1, SS1 and DM-2 Line: Emission Unit U-00014, Process IDs CS2, SC2)
- Wash Water (IWS) and Other Water Systems (Emission Unit U-00010, Process ID FES)
- Installation of new process water handling equipment consisting of shaker screen type filters, sieve filters, and a sump/trench system to handle the water that contains un-reacted binder ingredients. These changes will result in insignificant fugitive VOC emissions.
- Binder preparation, delivery, and storage of binder ingredients (Emission Unit U-0006, Process IDs 212, 229, MSH and Emission Unit U-00007, Process BDR)

Attainment Status



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OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH is located in the town of BETHLEHEM in the county of ALBANY.

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*	MARGINAL 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 facility manufactures fiberglass insulation products. Operations consist of two glass furnaces and associated production lines (DM1 and DM2) controlled by electrostatic precipitators and other air pollution control equipment.

Permit Structure and Description of Operations

The Title V permit for OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH 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.

OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH is defined by the following emission

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unit(s):

Emission unit U00001 - THIS EMISSION UNIT REPRESENTS THE DM-1 MIXED BATCH BIN, CONTAINS EMISSION POINT 00002 AND IS LOCATED IN BUILDING 1.

Emission unit U00001 is associated with the following emission points (EP):
00002

Process: MB1 is located at Building 1 - PROCESS PROVIDES FOR SURGE STORAGE OF MIXED (SAND & MINERAL) BATCH AT THE FURNACE. THE MIXED BATCH IS PNEUMATICALLY CONVEYED FROM A SEPARATE BLENDING OPERATION TO THIS BATCH BIN.

Emission unit U00002 - THIS UNIT REPRESENTS THE DM-1 OXY-FUEL MELTER, CONTAINS EMISSION POINTS 00100 AND 00101, AND IS LOCATED IN BUILDING 1. EMISSION POINT 00100 FEEDS INTO THE NEW, COMMON STACK, EMISSION POINT 00300. EMISSION POINT 00101 IS USED STRICTLY FOR DEP EMERGENCY SHUTDOWN, MAINTENANCE, OR MALFUNCTION. WHEN A BYPASS SITUATION OCCURS IT IS BEST PRACTICE TO KEEP THE FURNACE IN A CONDITION OF THERMAL STABILITY BY MAINTAINING ITS PULL RATE. SHUTTING IT OFF OR EVEN RESTRICTING THE MOLTEN GLASS OUTPUT FOR THIS TYPE OF FURNACE AS A PERCEIVED MEANS OF REDUCING EMISSIONS CAN THERMALLY SHOCK THE FURNACE REFRACTORY RESULTING IN FAILURE OR REDUCED LIFE OF THE CAPITAL ASSET. BY REDUCING THE SURFACE AREA AND THICKNESS OF THE INSULATING CRUST OF THE UNMELTED BATCH CAN ALSO RESULT IN ACTUALLY INCREASED EMISSIONS.

Emission unit U00002 is associated with the following emission points (EP):
00101, 00300

Process: OX1 is located at Building 1 - CONVERSION OF SAND AND MINERAL BATCH TO GLASS BY THERMAL HEATING THROUGH OXY FUEL FIRED MELTER. THIS PROCESS IS HANDLED BY EMISSION POINT 00300 IN NORMAL OPERATING MODE AND 00101 DURING DEP EMERGENCY SHUTDOWN, MAINTENANCE OR MALFUNCTION.

Emission unit U00003 - THIS UNIT REPRESENTS THE DM-1 MIXING CHAMBER, FORMING ZONES, CURING OVEN, COOLING SECTION, STRIPPING SECTION AND THE MIST CONTROL SYSTEM FOR THE FORMING BASEMENT; AND CONTAINS EMISSION POINT 00005, 00006, 00102, 00103, 00104, AND 00022; LOCATED IN BUILDING 1.

Emission unit U00003 is associated with the following emission points (EP):
00005, 00006, 00022, 00102, 00103, 00104, 00105

Process: BP1 is located at Building 1 - THIS PROCESS REPRESENTS THE OPERATION OF DM1 COOLING SECTION BY ITSELF WHILE DM1 SMOKE STRIPPER IS OUT OF SERVICE DUE TO SCHEDULED MAINTENANCE EVENTS. SECTION 201-1.4 APPLIES DURING SCHEDULED MAINTENANCE WHICH IS PERFORMED UNDER PART 200.7.

Process: CO1 is located at Building 1 - THIS PROCESS INVOLVES THE OPERATION OF A CURING OVEN WHICH CURES THE FIBER PACK PRIOR TO FABRICATION.

Process: CS1 is located at Building 1 - THIS PROCESS INVOLVES THE COOLING OF THE PACK PRIOR TO PACKAGING BY PASSING AIR THROUGH THE PACK. THIS PROCESS CONTAINS EMISSION POINT 00006.

Process: FZ1 is located at Building 1 - FORMING ZONES FZ001, FZ002, FZ005, AND FZ006 DRAW PACK FORMING AIR FROM BENEATH THE PACK FORMING CONVEYOR. THIS PROCESS IS HANDLED BY EMISSION POINT 00005.



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Process: FZ2 is located at Building 1 - FORMING ZONES FZ003 AND FZ004 DRAW PACK FORMING AIR FROM BENEATH THE PACK FORMING CONVEYOR. THIS PROCESS IS VENTED THROUGH EMISSION POINTS 00102 AND 00103.

Process: ME1 is located at Building 1 - THIS PROCESS PROVIDES THE VENTILATION FOR THE BASEMENT PORTION OF THE FORMING ZONES.

Process: SS1 is located at Building 1 - THIS PROCESS IS USED TO DRAW AIR THROUGH THE PACK TO "STRIP" OUT THE SMOKE AND POLLUTANT GASES. THIS PROCESS IS SERVED BY EMISSION POINTS 00102 AND 00103 DURING NORMAL OPERATION, AND 00104 AND 00022 DURING WEST ELECTROSTATIC PRECIPITATOR DOWNTIME. OPERATION OF DM1SS DOES NOT REQUIRE THE SIMULTANEOUS USE OF CONTROLS.

Emission unit U00005 - THIS UNIT REPRESENTS THE DM-1 ASPHALT APPLICATOR AND FLEXOGRAPHIC PRINTING, WHICH CONTAINS EMISSION POINT 00013, AND IS LOCATED IN BUILDING 1.

Emission unit U00005 is associated with the following emission points (EP):
00013

Process: AA1 is located at Building 1 - PROCESS APPLIES A THIN COATING OF PETROLEUM-BASED ASPHALT TO PAPER FOR THE BACKING ON FIBERGLASS INSULATION.

Process: FG1 is located at Building 1 - THIS PROCESS USES INK TO PRINT INFORMATION ON THE FIBERGLASS BACKING (PAPER SUBSTRATE)

Emission unit U00006 - THIS UNIT REPRESENTS FACILITY STORAGE TANKS INCLUDING RED DYE, ASPHALT, PROCESS OIL, UREA, UREA DILUTION, AND NORTH AND SOUTH RESIN TANKS. THIS UNIT CONTAINS EMISSION POINTS 00007, 00008, 00009, 00010, 00012, 00020, 00024. EMISSION POINTS 00007 AND 00008 ARE LOCATED IN BUILDING 1 AND EMISSION POINTS 00009 THROUGH 00012, 00020 AND 00024 ARE LOCATED IN BUILDING 2. AS PART OF THE CONVERSION TO A STARCH-BASED BINDER SYSTEM, THERE ARE TWO NEW MALTODEXTRIN TANKS (AT 15,227 GALLONS EACH), AND THE EXISTING 13,900 GALLON TANK WILL BE MODIFIED TO STORE SODIUM HYDROXIDE. IN ADDITION, THERE ARE TWO NEW STORAGE TANKS (A SODIUM HYPOPHOSPHITE TANK AT 6,189 GALLONS AND A CITRIC ACID TANK AT 8,225 GALLONS) THAT ARE BELOW THE EXEMPTION LEVELS NOTED IN 6 NYCRR 201-3.2(C)(25) AND, THEREFORE, ARE NOT REQUIRED TO BE INDIVIDUALLY LISTED ELSEWHERE IN THIS PERMIT.

Emission unit U00006 is associated with the following emission points (EP):
00007, 00008, 00009, 00010, 00011, 00012, 00020, 00024, 00040, 00041, 00042

Process: 212 is located at Building 1 - STORAGE TANKS INCLUDING RED DYE, ASPHALT, PROCESS OIL, UREA, UREA DILUTION, AND NORTH AND SOUTH RESIN TANKS.

Process: 229 is located at Building 1 - STORAGE TANKS INCLUDING RED DYE, ASPHALT, PROCESS OIL, UREA, UREA DILUTION AND NORTH AND SOUTH RESIN TANKS.

Process: MSH is located at Building 1 - Storage tanks including two Maltodextrin (MALT1 & MALT2) tanks and one Sodium Hydroxide (NAOH1) tank.

Emission unit U00007 - THIS UNIT REPRESENTS THE BINDER ROOM, WHICH CONTAINS EMISSION POINT 00027, AND IS LOCATED IN BUILDING 1. FOUR NEW STORAGE TANKS (ONE BINDER MIX TANK AT 917 GALLONS AND THREE BINDER CIRCULATION TANKS AT 1,202 GALLONS EACH) ARE BEING ADDED AS PART OF THE CONVERSION TO A STARCH-BASED BINDER SYSTEM. ALL OF THESE TANKS HAVE CAPACITIES BELOW THE



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EXEMPTION LEVELS NOTED IN 6 NYCRR 201-3.2(C)(25) AND, THEREFORE, ARE NOT REQUIRED TO BE INDIVIDUALLY LISTED ELSEWHERE IN THIS PERMIT.

Emission unit U00007 is associated with the following emission points (EP):
00027

Process: BDR is located at Building 1 - BINDER ROOM CONTAINS VARIOUS PROCESS MIX TANKS USED IN THE PRODUCTION OF BINDER. THE BINDER ROOM IS EXHAUSTED THROUGH A CEILING FAN.

Emission unit U00008 - THIS UNIT REPRESENTS DM-1 BAGGING EQUIPMENT, WHICH CONTAINS EMISSION POINTS 00030 AND 00031, AND IS LOCATED IN BUILDING 1.

Emission unit U00008 is associated with the following emission points (EP):
00030, 00031

Process: BC1 is located at Building 1 - EIGHT COLLECTION UNITS ASSOCIATED WITH FIBERGLASS INSULATION BAGGING EQUIPMENT.

Emission unit U00009 - THIS UNIT REPRESENTS THE DM-1 CONDITIONING AND FOREHEARTH AREA WHICH CONTAINS EMISSION POINT 00035, AND IS LOCATED IN BUILDING 1.

Emission unit U00009 is associated with the following emission points (EP):
00035

Process: CA1 is located at Building 1 - THE CONDITIONING AREA INCLUDES THE CONDITIONING SECTION AND FOREHEARTH OF THE HOT END, THE AREAS SURROUNDING THE FURNACE, AND THE BATCH CHARGER SYSTEM. EMISSIONS FROM THESE THREE ACTIVITIES ORIGINATE INSIDE THE BUILDING AND EVENTUALLY EXIT THE BUILDING THROUGH LOUVERS.

Emission unit U00010 - THIS UNIT REPRESENTS MISCELLANEOUS FUGITIVE EMISSION SOURCES INCLUDING: 2 INK JET PRINTERS, A WASH WATER SYSTEM, AGGREGATE CULLET STORAGE PILE, AND UNLOADING AND MIXING OF GLASS BATCH MATERIAL. THE WASH WATER SYSTEM IS LOCATED IN BUILDING 1, THE AGGREGATE CULLET STORAGE PILE IS LOCATED IN BUILDING 4, AND THE UNLOADING AND MIXING OF GLASS BATCH MATERIAL IS LOCATED IN BUILDING 3. TWO NEW STORAGE TANKS (A HOOD WALL WASH WATER RECIRCULATION TANK AT 2,000 GALLONS AND A BINDER MAKE-UP WATER TANK AT 1,737 GALLONS) ARE BEING ADDED AS PART OF THE CONVERSION TO A STARCH-BASED BINDER SYSTEM. THESE TWO TANKS HAVE CAPACITIES BELOW THE EXEMPTION LEVELS NOTED IN 6 NYCRR 201-3.2(C)(25) AND, THEREFORE, ARE NOT REQUIRED TO BE INDIVIDUALLY LISTED ELSEWHERE IN THIS PERMIT.

Process: FES is located at Building 1 - FUGITIVE EMISSION SOURCES INCLUDING; WASH WATER SYSTEM, AGGREGATE CULLET STORAGE PILE, AND UNLOADING AND MIXING OF GLASS BATCH MATERIAL.

Process: INK is located at Building 1 - FUGITIVE EMISSIONS FROM INKJET PRINTING.



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Emission unit U00011 - THIS UNIT REPRESENTS THE DM2 MIXED BATCH BIN, WHICH CONTAINS EMISSION POINT 00014, AND IS LOCATED IN BUILDING 1.

Emission unit U00011 is associated with the following emission points (EP):
00014

Process: MB2 is located at Building 1 - DM-2 MIXED BATCH BIN. PROCESS PROVIDES FOR SURGE STORAGE OF MIXED (SAND AND MINERAL) BATCH AT THE FURNACE. THE MIXED BATCH IS PNEUMATICALLY CONVEYED FROM A SEPARATE BLENDING OPERATION TO THIS BATCH BIN.

Emission unit U00012 - THIS EMISSION UNIT REPRESENTS THE DM2 OXY FUEL MELTER, CONTAINS EMISSION POINTS 00200, 000201 AND IS LOCATED IN BUILDING 1. EMISSION POINT 00200 FEEDS INTO THE COMMON STACK, EMISSION POINT 00300. EMISSION POINT 00201 IS USED STRICTLY FOR DEP EMERGENCY SHUTDOWN, MAINTENANCE, OR MALFUNCTION. WHEN A BYPASS SITUATION OCCURS IT IS BEST PRACTICE TO KEEP THE FURNACE IN A CONDITION OF THERMAL STABILITY BY MAINTAINING ITS PULL RATE. SHUTTING IT OFF OR EVEN RESTRICTING THE MOLTEN GLASS OUTPUT FOR THIS TYPE OF FURNACE AS A PERCEIVED MEANS OF REDUCING EMISSIONS CAN THERMALLY SHOCK THE FURNACE REFRACTORY RESULTING IN FAILURE OR REDUCED LIFE OF THE CAPITAL ASSET. BY REDUCING THE SURFACE AREA AND THICKNESS OF THE INSULATING CRUST OF UNMELTED BATCH SUCH ACTIONS CAN ALSO ACTUALLY INCREASE EMISSIONS.

Emission unit U00012 is associated with the following emission points (EP):
00201

Process: OX2 is located at Building 1 - CONVERSION OF SAND AND MINERAL BATCH TO GLASS BY THERMAL HEATING THROUGH OXY FUEL FIRED MELTER. THIS PROCESS IS HANDLED BY EMISSION POINT 00300 IN NORMAL OPERATING MODE AND 00201 DURING DEP EMERGENCY SHUTDOWN, MAINTENANCE OR MALFUNCTION.

Emission unit U00013 - THIS UNIT REPRESENTS THE DM2 MIXING CHAMBER, WHICH CONTAINS EMISSION POINT 00017, AND IS LOCATED IN BUILDING 1.

Emission unit U00013 is associated with the following emission points (EP):
00017

Process: FC2 is located at Building 1 - DM-2 MIXING CHAMBER. MIXING CHAMBER MIXES 2 AIR STREAMS: 1) SATURATED AIR FROM THE FIBER FORMING PROCESS THAT GOES THROUGH A DROPOUT BOX AND MOISTURE ELIMINATOR; AND 2) EXHAUST AIR FROM THE CURE OVEN AFTERBURNER. THE OVEN CURES THE FIBER PACK PRIOR TO FABRICATION.

Emission unit U00014 - THIS UNIT REPRESENTS THE DM2 COOLING AREA, COMPRISED OF DM2 SMOKE STRIPPER AND DM2 COOLING SECTION. THIS UNIT CONTAINS EMISSION POINT 00018 AND 00021, AND IS LOCATED IN BUILDING 1.

Emission unit U00014 is associated with the following emission points (EP):
00018, 00021

Process: CS2 is located at Building 1 - DM-2 COOLING AREA. THIS PROCESS REPRESENTS THE OPERATION OF DM2 COOLING SECTION BY ITSELF WHILE DM-2 SMOKE STRIPPER IS OUT OF SERVICE DUE TO SCHEDULED MAINTENANCE EVENTS. SECTION 201.14 APPLIES DURING THIS SCHEDULED MAINTENANCE WHICH IS PERFORMED UNDER SECTION 200.7.
Process: SC2 is located at Building 1 - DM-2 COOLING AREA. THIS PROCESS REMOVES SMOKE



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FROM THE CURED FIBERGLASS AND DRAWS COOLING AIR THROUGH THEH GLASS PACK.

Emission unit U00015 - THIS UNIT REPRESENTS THE DM2 ASPHALT APPLICATOR AND FLEXOGRAPHIC PRINTING, WHICH CONTAINS EMISSION POINT 00019, AND IS LOCATED IN BUILDING 1.

Emission unit U00015 is associated with the following emission points (EP):
00019

Process: AA2 is located at Building 1 - DM-2 ASPHALT APPLICATOR. PROCESS APPLIES A THIN COAT OF PETROLEUM-BASED ASPHALT TO PAPER SUBSTRATE THAT IS THE BACKING OF FIBERGLASS INSULATION.

Process: FG2 is located at Building 1 - DM-2 FLEXOGRAPHIC PRINTING. THIS PROCESS USES INK TO PRINT INFORMATION ON THE FIBERGLASS BACKING.

Emission unit U00016 - THIS UNIT REPRESENTS THE DM2 BAGGING EQUIPMENT, WHICH CONTAINS EMISSION POINT 00032, AND IS LOCATED IN BUILDING 1.

Emission unit U00016 is associated with the following emission points (EP):
00032

Process: BC2 is located at Building 1 - DM-2 BAGGING EQUIPMENT. EIGHT DUST COLLECTION UNITS ASSOCIATED WITH THE FIBERGLASS BAGGING EQUIPMENT.

Emission unit U00017 - THIS UNIT REPRESENTS THE PENCIONE COLLECTORS 1,2,3 AND 4 WHICH CONTAINS EMISSION POINT 00028 AND 00029, AND IS LOCATED IN BUILDING 1.

Emission unit U00017 is associated with the following emission points (EP):
00028, 00029

Process: PC1 THE PENCIONE UNITS ARE USED TO COLLECT PARTICULATE MATTER RESULTING FROM FIBERGLASS CUTTING, TRIMMING, AND REPACK OPERATIONS.

Emission unit U00018 - THIS UNIT REPRESENTS THE DM2 CONDITIONING AREA, WHICH CONTAINS EMISSION POINT 00036, AND IS LOCATED IN BUILDING 1.

Emission unit U00018 is associated with the following emission points (EP):
00036

Process: CA2 is located at Building 1 - CONDITIONING

Title V/Major Source Status

OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH is subject to Title V requirements. This determination is based on the following information:

The facility is major for NOx, PM-10, VOC, CO, individual HAP, and total HAP.

Program Applicability

The following chart summarizes the applicability of OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability



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

NOTES:

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.



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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 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

3296

MINERAL WOOL

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

3-05-012-02

MINERAL PRODUCTS
MINERAL PRODUCTS - FIBERGLASS MANUFACTURE
RECUPERATIVE FURNACE (WOOL-TYPE FIBER)

3-05-012-04

MINERAL PRODUCTS
MINERAL PRODUCTS - FIBERGLASS MANUFACTURE
FORMING: ROTARY SPUN (WOOL-TYPE FIBER)

3-05-012-05

MINERAL PRODUCTS
MINERAL PRODUCTS - FIBERGLASS MANUFACTURE
CURING OVEN: ROTARY SPUN (WOOL-TYPE FIBER)

3-05-012-06

MINERAL PRODUCTS
MINERAL PRODUCTS - FIBERGLASS MANUFACTURE
COOLING (WOOL-TYPE FIBER)

3-05-012-21

MINERAL PRODUCTS
MINERAL PRODUCTS - FIBERGLASS MANUFACTURE

3-05-012-99

Raw Material: Unloading/Conveying
MINERAL PRODUCTS

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4-05-005-99	MINERAL PRODUCTS - FIBERGLASS MANUFACTURE Other Not Classified PRINTING/PUBLISHING PRINTING/PUBLISHING - GENERAL
4-07-999-98	INK THINNING SOLVENT - OTHER NOT SPECIFIED ORGANIC CHEMICAL STORAGE ORGANIC CHEMICAL STORAGE - MISCELLANEOUS Specify in Comments

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Service 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 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 or 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	Range
		lbs/yr	
007664-41-7	AMMONIA		>= 100 tpy but < 250 tpy
007440-36-0	ANTIMONY		> 0 but < 10 tpy
007440-38-2	ARSENIC		> 0 but < 10 tpy
000630-08-0	CARBON MONOXIDE		>= 100 tpy but < 250 tpy
007440-47-3	CHROMIUM		> 0 but < 10 tpy
007440-48-4	COBALT		> 0 but < 10 tpy
000050-00-0	FORMALDEHYDE		>= 10 tpy
0NY100-00-0	HAP		>= 100 tpy but < 250 tpy
007647-01-0	HYDROGEN CHLORIDE		> 0 but < 10 tpy
007664-39-3	HYDROGEN FLUORIDE		> 0 but < 10 tpy
007783-06-4	HYDROGEN SULFIDE		>= 2.5 tpy but < 10 tpy
007439-92-1	LEAD		> 0 but < 10 tpy
007439-96-5	MANGANESE		> 0 but < 10 tpy
000067-56-1	METHYL ALCOHOL		>= 10 tpy
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS		> 0 but < 10 tpy
0NY210-00-0	OXIDES OF NITROGEN		>= 250 tpy but < 75,000 tpy
0NY075-00-0	PARTICULATES		>= 250 tpy but < 75,000 tpy
000108-95-2	PHENOL		>= 10 tpy
0NY075-02-5	PM 2.5		>= 250 tpy but <

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0NY075-00-5	PM-10	75,000 tpy >= 250 tpy but < 75,000 tpy
007446-09-5	SULFUR DIOXIDE	>= 2.5 tpy but < 10 tpy
0NY998-00-0	VOC	>= 100 tpy but < 250 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 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 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 - 6 NYCRR 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 6 NYCRR 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.



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- 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.
- Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 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 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 issuance;



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- 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 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)



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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 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	Condition	Short Description
-- FACILITY	ECL 19-0301	132	Powers and Duties of the Department with respect to air pollution control
U-00001	40CFR 52-A.21	86	Prevention of Significant Deterioration
U-00002	40CFR 52-A.21	88, 89	Prevention of Significant Deterioration
U-00003	40CFR 52-A.21	94	Prevention of Significant Deterioration
U-00008	40CFR 52-A.21	119	Prevention of Significant Deterioration
U-00009	40CFR 52-A.21	120	Prevention of Significant Deterioration
U-00010	40CFR 52-A.21	121	Prevention of Significant Deterioration
U-00012	40CFR 52-A.21	122, 124	Prevention of Significant Deterioration

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U-00017	40CFR 52-A.21	131	Deterioration Prevention of Significant
FACILITY	40CFR 60-Kb.110b(b)	41	Deterioration NSPS for volatile organic liquid storage vessels- applicability and designation of affected facilities
FACILITY	40CFR 63-A.10	48, 49	Recordkeeping and Reporting
FACILITY	40CFR 63-A.4	42	Prohibited Activities and Circumvention
FACILITY	40CFR 63-A.6(e) (1)	43	General Provisions - Operations and Maintenance Requirements During Startup, Shutdown, and Malfunction
FACILITY	40CFR 63-A.6(e) (3)	44	Startup, Shutdown and Malfunction Plan
FACILITY	40CFR 63-A.9	45, 46, 47	Notification Requirements
FACILITY	40CFR 63- JJJJ.3320(b) (2)	50	Paper and Other Web Coating NESHAP - emission standard based on mass of coating materials
FACILITY	40CFR 63- JJJJ.3320(b) (3)	51	Paper and Other Web Coating NESHAP - Emission standard - mass of coating solids option
FACILITY	40CFR 63-JJJJ.3360(c)	52	Paper and Other Web Coating NESHAP - Determination of organic HAP content
FACILITY	40CFR 63-JJJJ.3400(b)	53	Paper and Other Web Coating NESHAP - Reporting - Initial Notification
FACILITY	40CFR 63- JJJJ.3400(c) (1)	54	Paper and Other Web Coating NESHAP - Submission of semiannual compliance reports.
FACILITY	40CFR 63- JJJJ.3400(c) (2)	55	Paper and Other Web Coating NESHAP - Semiannual compliance report contents.
FACILITY	40CFR 63-JJJJ.3410(a)	56	Paper and Other Web Coating NESHAP - Record keeping requirements.
FACILITY	40CFR 63- NNN.1382(a) (1)	57	Wool Fiberglass Emission Limits - Glass melting furnaces
FACILITY	40CFR 63- NNN.1382(a) (2)	58	Wool Fiberglass Emission Limits - Rotary spin mfg.
U- 00007/00027/BDR/BINDR	40CFR 63- NNN.1382(b) (10)	117, 118	Wool Fiberglass Manufacturing NESHAP



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FACILITY	40CFR 63- NNN.1382 (b) (2)	59	- Operating limits - binder formulation Wool Fiberglass Manufacturing NESHAP
FACILITY	40CFR 63- NNN.1382 (b) (2)	60	- Operating limits for ESP's Wool Fiberglass Manufacturing NESHAP
FACILITY	40CFR 63- NNN.1382 (b) (2)	61	- Operating limits for ESP's Wool Fiberglass Manufacturing NESHAP
FACILITY	40CFR 63- NNN.1382 (b) (5)	62	- Operating limits for ESP's Wool Fiberglass Manufacturing NESHAP
FACILITY	40CFR 63- NNN.1382 (b) (5)	63	- Operating limits for average glass pull rates Wool Fiberglass Manufacturing NESHAP
FACILITY	40CFR 63- NNN.1382 (b) (5)	64	- Operating limits for average glass pull rates Wool Fiberglass Manufacturing NESHAP
U- 00003/00005/CO1/DM1AB	40CFR 63- NNN.1382 (b) (6)	113	- Operating limits for incinerators Wool Fiberglass Manufacturing NESHAP
U- 00013/00017/FC2/DM2AB	40CFR 63- NNN.1382 (b) (6)	129	- Operating limits for incinerators Wool Fiberglass Manufacturing NESHAP
U- 00007/00027/BDR/BINDR	40CFR 63- NNN.1382 (b) (9)	116	- Operating limits - free-formaldehyde resin binder Wool Fiberglass Manufacturing NESHAP
FACILITY	40CFR 63-NNN.1383 (a)	65, 66	- Monitoring Provisions - Operation, Maintenance, and Monitoring Plan Wool Fiberglass Manufacturing NESHAP
U-00002	40CFR 63-NNN.1383 (c)	90, 91	- Monitoring Provisions - ESP's Wool Fiberglass Manufacturing NESHAP
U-00012	40CFR 63-NNN.1383 (c)	125, 126	- Monitoring Provisions - ESP's Wool Fiberglass Manufacturing NESHAP
FACILITY	40CFR 63-NNN.1383 (f)	67	- Monitoring Provisions - Continuous glass pull-rate monitors Wool Fiberglass
FACILITY	40CFR 63-NNN.1383 (g)	68, 69	

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FACILITY	40CFR 63-NNN.1383 (l)	70	Manufacturing NESHAP - Monitoring Provisions - Incinerator monitoring Wool Fiberglass Manufacturing NESHAP - Monitoring Provisions - Product LOI and density Wool Fiberglass Manufacturing NESHAP - Monitoring Provisions - Changes of parametric monitoring limits
FACILITY	40CFR 63-NNN.1383 (m)	71	Wool Fiberglass Mfg. Performance Test Requirements
FACILITY	40CFR 63-NNN.1384	72, 73	Wool Fiberglass Notification, Recordkeeping and Reporting
FACILITY	40CFR 63-NNN.1386	74	COMPLIANCE ASSURANCE MONITORING
FACILITY	40CFR 64	75, 76, 77	COMPLIANCE ASSURANCE MONITORING
U-00002	40CFR 64	92, 93	COMPLIANCE ASSURANCE MONITORING
U-00003	40CFR 64	95, 96	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ1/FZ1SS	40CFR 64	97, 98	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ1/FZ2SS	40CFR 64	99, 100	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ1/FZ5SS	40CFR 64	101, 102	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ1/FZ6SS	40CFR 64	103, 104	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ2/FZ3SS	40CFR 64	105, 106	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ2/FZ4SS	40CFR 64	107, 108	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ2/FZEP1	40CFR 64	109, 110	COMPLIANCE ASSURANCE MONITORING
U-00003/-/FZ2/FZEP2	40CFR 64	111, 112	COMPLIANCE ASSURANCE MONITORING
U-00012	40CFR 64	127, 128	COMPLIANCE ASSURANCE MONITORING
U-00013/00017/FC2/DM2DB FACILITY	40CFR 64 40CFR 64.8	130 78, 79, 80	COMPLIANCE ASSURANCE MONITORING CAM - Quality improvement plan (QIP) requirements Chemical accident prevention provisions
FACILITY	40CFR 68	21	State Operating Permits Program
FACILITY	40CFR 70	81	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 82-F	22	Acceptable ambient air quality.
FACILITY	6NYCRR 200.6	1	Maintenance of equipment.
FACILITY	6NYCRR 200.7	10	



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FACILITY	6NYCRR 201-1.4	133	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2 (a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3 (a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	23, 82, 83	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.5 (a) (4)	15	General conditions
FACILITY	6NYCRR 201-6.5 (a) (7)	2	General conditions
FACILITY	6NYCRR 201-6.5 (a) (8)	16	Fees
FACILITY	6NYCRR 201-6.5 (c)	3	General conditions
FACILITY	6NYCRR 201-6.5 (c) (2)	4	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (c) (3) (ii)	5	Permit conditions for Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (d) (5)	17	Compliance Monitoring
FACILITY	6NYCRR 201-6.5 (e)	6	Compliance schedules
FACILITY	6NYCRR 201-6.5 (f) (6)	18	Compliance
FACILITY	6NYCRR 201-6.5 (g)	24	Certification
FACILITY	6NYCRR 201-7	25, 26, 84, 85	Off Permit Changes
U-00001	6NYCRR 201-7	86	Permit shield
U-00002	6NYCRR 201-7	87, 88, 89	Federally Enforceable Emissions Caps
U-00003	6NYCRR 201-7	94	Federally Enforceable Emissions Caps
U-00008	6NYCRR 201-7	119	Federally Enforceable Emissions Caps
U-00009	6NYCRR 201-7	120	Federally Enforceable Emissions Caps
U-00010	6NYCRR 201-7	121	Federally Enforceable Emissions Caps
U-00012	6NYCRR 201-7	122, 123, 124	Federally Enforceable Emissions Caps
U-00017	6NYCRR 201-7	131	Federally Enforceable Emissions Caps
FACILITY	6NYCRR 202-1.1	19	Required emissions tests.
FACILITY	6NYCRR 202-1.2	27	Notification.
FACILITY	6NYCRR 202-1.3	28	Acceptable procedures.
FACILITY	6NYCRR 202-2.1	7	Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	8	Emission Statements - record keeping

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FACILITY	6NYCRR 211.2	134	requirements.
			General Prohibitions
			- air pollution
U-00005/-/AA1	6NYCRR 211.2	137	prohibited.
			General Prohibitions
			- air pollution
U-00010	6NYCRR 211.2	138	prohibited.
			General Prohibitions
			- air pollution
U-00015/-/AA2	6NYCRR 211.2	139	prohibited.
			General Prohibitions
			- air pollution
FACILITY	6NYCRR 211.3	20	prohibited.
			General Prohibitions
			- visible emissions
FACILITY	6NYCRR 212	29	limited
			General Process
FACILITY	6NYCRR 212.4 (a)	30	Emission Sources
			General Process
			Emission Sources -
			emissions from new
			sources and/or
			modifications
FACILITY	6NYCRR 212.4 (c)	31	General Process
			Emission Sources -
			emissions from new
			processes and/or
			modifications
FACILITY	6NYCRR 212.6 (a)	32	General Process
			Emission Sources -
			opacity of emissions
			limited
FACILITY	6NYCRR 215.2	9	Open Fires -
			Prohibitions
FACILITY	6NYCRR 220-2.3 (a)	135	Gaseous emissions
			from glass melting
			furnaces - RACT
			analysis.
FACILITY	6NYCRR 228-1.10	35	Handling, storage and
			disposal of VOCs
FACILITY	6NYCRR 228-1.3 (a)	33	Recordkeeping,
			reports for VOCs
FACILITY	6NYCRR 228-1.5 (a)	34	VOC recordkeeping by
			the facility
U-00006	6NYCRR	114	Volatile organic
	229.3 (e) (2) (iv)		liquid storage tanks
U-00006	6NYCRR 229.3 (e) (2) (v)	115	Volatile organic
			liquid storage tanks
FACILITY	6NYCRR 231-11.2 (b)	136	Reasonable
			Possibility
			requirements for
			insignificant mods -
			less than 50% with
			excluded emissions
U-00002	6NYCRR 231-2	87	New Source Review in
			Nonattainment Areas
			and Ozone Transport
			Region
U-00012	6NYCRR 231-2	123	New Source Review in
			Nonattainment Areas
			and Ozone Transport
			Region
FACILITY	6NYCRR 231-6	25, 26	Mods to Existing
			Major Facilities in



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FACILITY	6NYCRR 234.3 (a) (1) (i)	36	Nonattainment and Attainment Areas of the State in the OTR Control requirements - Ink
FACILITY	6NYCRR 234.5	37	Prohibition of sale or specification
FACILITY	6NYCRR 234.6	38	Handling, storage and disposal of VOCs
FACILITY	6NYCRR 234.7	39	Recordkeeping requirements
FACILITY	6NYCRR 234.8	40	Opacity

Applicability Discussion:

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

ECL 19-0301

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.

6 NYCRR 200.6

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

6 NYCRR 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

6 NYCRR 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.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 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.

6 NYCRR 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,



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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.

6 NYCRR Subpart 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.

6 NYCRR 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.

6 NYCRR 201-6.5 (a) (7)

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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 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.



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6 NYCRR 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.

6 NYCRR 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.

6 NYCRR 201-6.5 (f) (6)

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

6 NYCRR 201-6.5 (g)

Permit Exclusion Provisions - specifies those actions, such as administrative orders, suits, claims for natural resource damages, etc that are not affected by the federally enforceable portion of the permit, unless they are specifically addressed by it.

6 NYCRR 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.

6 NYCRR 202-2.1

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

6 NYCRR 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.

6 NYCRR 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 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 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68

This Part lists the regulated substances and there applicability thresholds and sets the requirements for



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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 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, OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH has been determined to be subject to the following regulations:

40 CFR 52.21

This citation applies to facilities that are subject to Prevention of Significant Deterioration (PSD) provisions; that is, facilities that are located in an attainment area and that emit pollutants which are listed in 40 CFR 52.21(b)(23)(i). The Owens Corning Insulating Systems - Feura Bush facility has capped (under 6 NYCRR Subpart 201-7) the past project from PSD applicability requirements by accepting limits on tons of glass pulled per year and pounds per hour emission rates. These limits have been carried over from the initial Title V permit into this permit renewal/modification.

40 CFR 60.110b (b)

This condition requires the facility to maintain a record of the dimensions and capacity for volatile organic liquid storage vessels (tanks) constructed, reconstructed, or modified after July 23, 1984. There are no other requirements for tanks of less than 20,000 gallon design capacity.

40 CFR 63.10

Section 63.10 contains default general recordkeeping requirements as well as recordkeeping for applicability determinations and continuous monitoring systems. It also contains default reporting requirements for "one shot" items such as performance test results and immediate startup shutdown, malfunction reports. It also contains periodic (semi-annual) reporting requirements for startup, shutdown, and malfunction; excess emissions; and continuous monitoring performance.

40 CFR 63.1382 (a) (1)

This condition lists the emission limit that glass-melting furnaces must meet. This limit is set at 0.5 pounds of particulate matter per ton of glass pulled (0.25 kg/Mg). The facility will need to conduct a performance test to measure the emissions of particulate matter to ensure that the emissions are less than this limit.

40 CFR 63.1382 (a) (2)

This condition lists the emissions limits that rotary spin manufacturing lines must meet in order to be in compliance with this National Emission Standard for Hazardous Air Pollutants.



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The limits are set at:

1.2 pounds of formaldehyde per ton of glass pulled for existing rotary spin manufacturing lines,
and
0.8 pounds of formaldehyde per ton of glass pulled for new rotary spin manufacturing lines.

The limits must be met on and after the date that the facility conducts a performance test to measure the emissions of formaldehyde to ensure that the emission limit is not being exceeded.

40 CFR 63.1382 (b) (10)

This condition ensures that the facility will not change the binder formulation from what was used when the emissions of hazardous air pollutants were measured to see if the facility was meeting the emission limit(s).

40 CFR 63.1382 (b) (2) (i)

This condition reduces the emissions of hazardous air pollutants by requiring the facility to take corrective action whenever the alarm goes off on a bag leak detection system. The facility must begin taking action within one hour of a leak being detected and finish correcting the problem in a timely manner according to the operations, maintenance, and monitoring plan required in this regulation.

40 CFR 63.1382 (b) (2) (ii)

This condition reduces the emissions of hazardous air pollutants by requiring the facility to perform a quality improvement plan when the electrostatic precipitator is not properly controlling HAP emissions.

During the performance test, the facility is required to set operating levels which indicate that the ESP is controlling HAP emissions below the limit in this subpart. If the parameters being monitored fall outside of these operating limits, that is an indication that the HAP emissions may be exceeding the emission limit.

40 CFR 63.1382 (b) (2) (iii)

This condition reduces emissions of hazardous air pollutants (HAP) by not allowing the facility to operate the electrostatic precipitator (ESP) outside of the operating limits more than 10% of the time.

During the performance test, the facility was required to establish limits on parameters that can be monitored during normal operation which would indicate that the ESP is operating properly such that emissions of HAP are below the emission limit set in this subpart.

40 CFR 63.1382 (b) (5) (i)

This condition reduces the emission of hazardous air pollutants (HAP) by requiring the facility to take corrective actions whenever the glass pull rate exceeds the average that was established during the performance test.

During the performance test, the facility had to determine an average glass pull rate which would correspond to a level of HAP emissions which met the emission limit in this subpart. If this pull rate is exceeded during normal operation, the facility must take actions to remedy the pull rate in a timely manner.

40 CFR 63.1382 (b) (5) (ii)

This condition reduces the emissions of hazardous air pollutants by requiring the facility to perform a quality improvement plan when the average glass pull rate is exceeding the average

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established during the performance test.

During the performance test, the facility had to determine an average glass pull rate which would correspond to a level of HAP emissions which met the emission limit in this subpart. If this pull rate is exceeded during normal operation more than 5% of the operating time, the QIP must be implemented in order to correct the glass pull rate.

40 CFR 63.1382 (b) (5) (iii)

This condition reduces the emissions of hazardous air pollutants by not allowing the facility to exceed the average glass pull rate established during the performance test for more than 10% of the total operating time.

During the performance test, the facility had to determine an average glass pull rate which would correspond to a level of HAP emissions which met the emission limit in this subpart. This pull rate is not to be exceeded during normal operation more than 10% of the operating time.

40 CFR 63.1382 (b) (6)

This condition reduces the emissions of formaldehyde by requiring the facility to operate any incinerator below the firebox temperature that was established during the most recent stack test.

During the performance test, the facility had to establish a minimum firebox temperature which would correspond to levels of formaldehyde emissions which would meet the emission limit in this subpart.

40 CFR 63.1382 (b) (9)

This condition reduces the emissions of formaldehyde by requiring the facility to use resin in the binder with a free-formaldehyde content that does not exceed the free-formaldehyde range that was established during the performance test. During the performance test the facility had to establish a range of free-formaldehyde in the formulation of the resin in the binder which would correspond to a level of formaldehyde emissions which would meet the emission limit in this subpart.

40 CFR 63.1383 (a)

This condition requires the facility to create a operations, maintenance, and monitoring plan which would spell out the procedures that are to be used to ensure that the emission limits are being met during and after process modifications, the monitoring devices are measuring properly, and the corrective actions to take if the process parameters or control device parameters exceed the limits that were determined during the performance test.

40 CFR 63.1383 (c)

This condition requires the facility to monitor certain parameters during operation of the electrostatic precipitator in order to prove that the ESP is properly controlling hazardous air pollutant emissions.

This condition lists the items that need to be included in the operation, maintenance, and monitoring plan for ESPs.

40 CFR 63.1383 (f)

This condition requires the facility to monitor the glass pull rate in order to prove that the limit that was set during the performance test is being met. Existing furnaces must monitor the pull rate either daily or hourly depending on whether there is a continuous monitor installed on the furnace. New furnaces must install a continuous monitor and record the pull rate hourly.



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40 CFR 63.1383 (g)

This condition requires the facility to monitor the firebox temperature that was set during the performance test to make sure that the incinerator is properly controlling emissions of formaldehyde.

This condition also requires the facility to annually inspect the incinerator to ensure proper operation and efficient combustion are attained.

40 CFR 63.1383 (l)

This condition requires the facility to monitor and record the loss on ignition (LOI) and the density of the product every eight hours in order to ensure that the emission limit in this subpart is being met.

40 CFR 63.1383 (m)

This condition allows the facility to change the parameter limits that signify compliance with the emission limits of this subpart as long as there is subsequent performance tests done which prove that the new parameter limits also correspond to levels of hazardous air pollutant emissions which meet the emission limits.

40 CFR 63.1384

This condition describes how the facility will conduct the performance tests that are needed to prove that the facility is meeting the emissions limits for hazardous air pollutants in this subpart. During the performance test, the facility will need to record certain parameters that will correspond to a level of emissions that meets the emission limit. These parameters can then be continuously monitored in order to prove that the facility is continuously meeting the emission limits in this subpart.

40 CFR 63.1386

This condition lists the notifications and reports that the facility must submit to NYSDEC in order to provide updates on the facility's compliance status regarding this subpart. This condition also lists the records that need to be kept on site in order to prove to a NYSDEC inspector that the facility has continuously been monitoring and meeting the emission limits in this subpart.

40 CFR 63.3320 (b) (2)

This condition reduces the emissions of hazardous air pollutants by requiring the facility to meet an emission limit for organic HAP that are emitted from the coating processes. The facility must not emit more than 4% of the mass of the coating materials as organic HAP for existing sources and 1.6% for new sources.

The facility will prove that it is meeting this limit during the initial compliance demonstration that is also required as part of this subpart.

40 CFR 63.3320 (b) (3)

This condition reduces the emissions of hazardous air pollutants by requiring the facility to meet an emission limit for organic HAP that are emitted from the coating processes. The facility must not emit more than 20% of the mass of the coating solids as organic HAP for existing sources and 8% for new sources.

The facility will prove that it is meeting this limit during the initial compliance demonstration that is also required as part of this subpart.



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40 CFR 63.3360 (c)

This condition requires the facility to calculate the portion of the coating that is organic hazardous air pollutants and spells out which methods are allowable to calculate the content. This condition will ensure that the facility is calculating their emissions of organic HAP in a consistent and easily understandable manner when determining whether they are meeting the emission limits in this subpart.

40 CFR 63.3400 (b)

This condition requires that the facility submit an initial notification no later than one year before the facility needs to be in compliance with this subpart. The notification will include basic information about the facility and will be submitted to EPA Region 2 and the NYSDEC. A permit application may be submitted instead of an initial notification in certain cases.

40 CFR 63.3400 (c) (1)

This condition requires that the facility submit semi-annual compliance reports in order to let NYSDEC know whether the facility has been meeting the emission limits contained in this subpart. This condition spells out the dates that the reports are to be submitted by.

40 CFR 63.3400 (c) (2)

This condition spells out the information that needs to be submitted in the semi-annual compliance reports that must be submitted in order to show that the facility has been meeting the emission limits contained in this subpart.

40 CFR 63.3410 (a)

This condition spells out which records the facility must keep in order to prove that the facility is meeting the requirements in this subpart. The records need to be kept on a monthly basis and include items such as CEM data, material usage, HAP content, and operating parameter data.

40 CFR 63.4

Section 63.4 outlines generally prohibited activities such as operating in noncompliance with applicable standards and circumventing the rules. It requires sources to comply with Part 63 requirements regardless of whether those requirements have been included in a title V (NYCRR Part 201-6) permit for the source. Intentional or unintentional concealment of an emission that would otherwise violate a standard is itself a violation.

40 CFR 63.6 (e) (1)

This condition requires the facility to address the emissions of hazardous air pollutants (HAPs) during periods when the process(es) are starting up, shutting down, or malfunctioning. This condition requires the facility to come up with a startup, shutdown, malfunction plan (SSMP) which addresses how the plant personnel will react to each of the situations when the process(es) are not functioning normally and what steps will be taken to reduce the release of HAPs to the atmosphere.

If the facility takes actions which aren't in the SSMP, then the facility needs to notify NYSDEC, and update the SSMP accordingly.

The facility must have the SSMP available upon request for the NYSDEC to review.

40 CFR 63.6 (e) (3)

Paragraph 63.6(e)(3) requires a startup, shutdown, and malfunction (SSM) plan for MACT-affected sources and that the plan be followed.

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40 CFR 63.9

Section 63.9 contains default notification requirements and deadlines for initial notifications (existing source: 120 days from promulgation; new source: dependent on size and timing), requests for extension of compliance (dependent on type of extension), notification that a source is subject to special compliance requirements (no later than initial notification), performance test notification (60 days before test), continuous monitoring related notifications (60 days before performance evaluation), and notifications of compliance status (also referred to as initial compliance reports; 60 days after completion of relevant compliance demonstration activity).

40 CFR 64.8

This applies to Title V facilities with precontrol major emissions with an emission limit.

40 CFR Part 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 (i.e., sources) 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.

Conditions requiring 3rd field secondary amperage and voltage monitoring at the Dry Electrostatic Precipitators of both furnaces were added so that these parametric ranges will continue to be used to monitor the effectiveness of such control equipment once the starch-based binder system is employed to replace the phenol/formaldehyde binder and the related conditions of 40 CFR 63.1383(c), Subpart NNN no longer apply.

Acid Rain program requirements; stratospheric ozone protection requirements; post-1990 New Source Performance Standards, Emission Guidelines, and National Emission Standards for Hazardous Air Pollutants; and some other limitations are exempt from CAM. However, many of the exempt requirements are subject to less stringent periodic monitoring under 40 CFR Part 70 and 6NYCRR Subpart 201-6.

40 CFR Part 70

This applies to Title V sources.

6 NYCRR 202-1.2

This regulation specifies that the department is to be notified at least 30 days in advance of any required stack test. The notification is to include a list of the procedures to be used that are acceptable to the department. Finally, free access to observe the stack test is to be provided to the department's representative.

6 NYCRR 202-1.3

This regulation requires that any emission testing, sampling and analytical determination used to determine compliance must use methods acceptable to the department. Acceptable test methods may include but are not limited to the reference methods found in 40 CFR Part 60 appendix A and Part 61, appendix B. Alternate methods may also be used provided they are determined to be acceptable by the department. Finally, unless otherwise specified, all emission test reports must be submitted within 60 days after completion of testing.

6 NYCRR 212.4 (a)

This rule requires compliance with the degree of control specified in Tables 2, 3 and 4 for new (after



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July 1, 1973) process emission sources.

6 NYCRR 212.4 (c)

This rule requires existing sources (in operation after July 1, 1973) of solid particulates with environmental rating of B or C which are not subject to Table 5 "Processes for which Permissible Emission Rate is Based on Process Weight, to be limited to an particulate emission rate not to exceed 0.05 grains per dry standard cubic foot.

6 NYCRR 212.6 (a)

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

6 NYCRR 220-2.3 (a)

A reasonably available control technology (RACT) analysis shall be submitted to the department for emissions of oxides of nitrogen (NO_x) from the furnace that proposes a RACT emission limit(s), and identifies the procedures and monitoring equipment to be used to demonstrate compliance with the proposed RACT emission limit(s). The RACT emissions limit(s) shall be expressed in pounds of NO_x per ton of glass produced. Owens Corning Insulating Systems - Feura Bush is subject to this requirement because it is a glass plant that is a major facility of NO_x.

6 NYCRR 228-1.10

This citation specifies the procedures and protocols for the handling, storage and disposal of volatile organic compounds.

6 NYCRR 228-1.3 (a)

This citation prohibits the use of coatings that exceed the maximum permitted pounds of volatile organic compounds per gallon, unless a coating system meeting certain requirements is used.

6 NYCRR 228-1.5 (a)

This citation requires the owner or operator of any emission source subject to 6 NYCRR Part 228 to maintain and, upon request, provide the Department with a certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual volatile organic compound (VOC) content of each as applied coating. In addition it requires the purchase, usage and/or production records of the coating material, including solvents and any additional information required to determine compliance with Part 228, to be maintained in a format acceptable to the Department; and upon request, submitted to the Department.

6 NYCRR 229.3 (e) (2) (iv)

This section requires a tank with submerged fill for storage of volatile organic liquids

6 NYCRR 229.3 (e) (2) (v)

This section requires the tank to be equipped with conservation vents for storage of volatile organic liquids.

6 NYCRR 231-11.2 (b)

This citation lists the record keeping requirements for insignificant modifications that are less than 50% of the applicable significant project threshold including excluded emissions as defined in Part 231-4.1(b)(40)(i)(c). These "reasonable possibility" record keeping requirements apply because for the



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starch-based binder change project, actual emissions projections were used instead of potential emissions when comparing future project resultant emissions to baseline actual emissions.

6 NYCRR 234.3 (a) (1) (i)

For packaging rotogravure, publication rotogravure or flexographic printing processes that use ink, coating or adhesive containing VOC must use inks that have a VOC content of 0.8 kilograms of VOC per kilogram of solids as applied or 0.16 kilograms of VOC per kilogram of ink, coating or adhesive as applied.

6 NYCRR 234.5

This regulation requires that a person shall not sell, specify, or require the application of a coating, ink or adhesive on a substrate if such activity is prohibited by any of the provisions of this Part.

6 NYCRR 234.6

This regulation specifies the following:

An owner or operator of a facility subject to this Part shall not:

- (a) Use open containers to store or dispose of cloth or paper impregnated with VOC or solvents that are used for surface preparation, cleanup or the removal of ink, coating or adhesive;
- (b) Use open containers to store or dispose of spent or fresh VOC or solvents used for surface preparation, cleanup or the removal of ink, coating or adhesive;
- (c) Use open containers to store, dispose or dispense ink, coating or adhesive unless production, sampling, maintenance or inspection procedures require operational access. This provision does not apply to the actual device or equipment designed for the purposes of applying an ink, coating or adhesive to a substrate.

6 NYCRR 234.7

This regulation sets forth the record keeping requirements for facilities subject to the requirements of Part 234.

6 NYCRR 234.8

This regulation requires that emissions from a unit subject to Part 234 shall not have an



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opacity greater than 10%.

6 NYCRR Part 212

This regulation applies to process (versus combustion) sources.

6 NYCRR Subpart 201-7

This regulation sets forth emission caps that cannot be exceeded by the facility. In particular, the facility has capped from the requirements of 40 CFR 52.21 and 6 NYCRR Subparts 231-2 and 231-6 (see separate discussions).

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County. The facility has capped (under 6 NYCRR Subpart 201-7) the past project from Subpart 231-2 applicability requirements by accepting limits on tons of glass pulled per year. These limits have been carried over from the initial Title V permit into this permit renewal/modification.

6 NYCRR Subpart 231-6

This Subpart applies to modifications to existing major facilities in non-attainment areas and attainment areas of the State within the Ozone Transport Region (OTR). The Owens Corning Insulating Systems - Feura Bush facility has capped (under 6 NYCRR Subpart 201-7) the starch-based binder system conversion project from these requirements by accepting monitoring limits on the tons of binder used per year so that the VOC emissions increase from the associated starch-based binder project will be limited to no more than 39 tons per year (tpy). When added to the two-year average baseline emissions of 59.78 tpy (from 2005-2006 facility emissions statements), the total VOC emissions from the affected process sources shall not exceed 98.78 tpy as a rolling 12-month average.

Non Applicability Analysis

List of non-applicable rules and regulations:

Location Facility/EU/EP/Process/ES	Regulation	Short Description
FACILITY	40 CFR 60.680	Wool fiberglass insulation manufacturing plants

Reason: Currently, both the DM-1 and DM-2 manufacturing lines are not subject to 40 CFR 60, Supart PPP (40 CFR 60.680 or NSPS PPP) - Standard of Performance for Wool Fiberglass Insulation Manufacturing Plants. The



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proposed binder change project to a starch-based binder will not trigger the applicability of NSPS PPP for either the DM-1 or DM-2 manufacturing lines. Applicability of NSPS PPP is for rotary spin wool fiberglass insulation manufacturing lines that commence construction, modification or reconstruction after February 7, 1984. 40 CFR 60.14 defines modification as any physical change or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies, where the emission rate is required to be expressed as kg/hour. In other words, the NSPS modification provisions apply an hourly emissions rate test to determine whether an emissions increase results from a physical or operational change. Pursuant to longstanding USEPA interpretations, the emission rate before and after a physical or operational change is evaluated at each unit by comparing the hourly potential emissions under current maximum capacity to hourly emissions at maximum capacity after the change.

The binder change project will not increase the hourly bare glass production rate of any of the affected manufacturing lines. A comparison by the facility of the standardized emission factor data applicable prior to the binder change with emission factor data obtained from stack tests performed during starch-based binder trials at the OCIS facility in Eloy, AZ demonstrates that the maximum hourly particulate matter emissions will not increase as a result of the binder change project. Therefore, both the DM-1 and DM-2 manufacturing lines will remain not subject to NSPS PPP.

U-00015/-/FG2

40 CFR 63.820

Printing and Publishing
NESHAP-applicability

Reason: This standard covers wide web flexographic printing. Although the facility does use flexographic printing, it does not qualify as wide web. In all cases, the printing face is less than 18 inches wide.

NOTE: Non-applicability determinations are cited as a permit condition under 6 NYCRR Part 201-6.5(g). This information is optional and provided only if the applicant is seeking to obtain formal confirmation, within an issued Title V permit, that specified activities are not subject to the listed federal applicable or state only requirement. The applicant is seeking to obtain verification that a requirement does not apply for the stated reason(s) and the Department has agreed to include the non-applicability determination in the issued Title V permit which in turn provides a shield against any potential enforcement action.

Compliance Certification

Summary of monitoring activities at OWENS-CORNING INSULATING SYSTEMS- FEURA

BUSH:

Location	Cond No.	Type of Monitoring
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Facility/EU/EP/Process/ES

FACILITY	41	record keeping/maintenance procedures
FACILITY	50	work practice involving specific operations
FACILITY	51	work practice involving specific operations
FACILITY	52	record keeping/maintenance procedures
FACILITY	53	record keeping/maintenance procedures
FACILITY	54	record keeping/maintenance procedures
FACILITY	55	record keeping/maintenance procedures
FACILITY	56	record keeping/maintenance procedures
FACILITY	57	intermittent emission testing
FACILITY	58	intermittent emission testing
U-00007/00027/BDR/BINDR	117	monitoring of process or control device parameters as surrogate
U-00007/00027/BDR/BINDR	118	monitoring of process or control device parameters as surrogate
FACILITY	59	record keeping/maintenance procedures
FACILITY	60	record keeping/maintenance procedures
FACILITY	61	record keeping/maintenance procedures
FACILITY	62	record keeping/maintenance procedures
FACILITY	63	record keeping/maintenance procedures
FACILITY	64	record keeping/maintenance procedures
U-00003/00005/CO1/DM1AB	113	monitoring of process or control device parameters as surrogate
U-00013/00017/FC2/DM2AB	129	monitoring of process or control device parameters as surrogate
U-00007/00027/BDR/BINDR	116	monitoring of process or control device parameters as surrogate
FACILITY	65	record keeping/maintenance procedures
FACILITY	66	record keeping/maintenance procedures
U-00002	90	monitoring of process or control device parameters as surrogate
U-00002	91	monitoring of process or control device parameters as surrogate
U-00012	125	monitoring of process or control device parameters as surrogate
U-00012	126	monitoring of process or control device parameters as surrogate
FACILITY	67	record keeping/maintenance procedures
FACILITY	68	record keeping/maintenance procedures
FACILITY	69	record keeping/maintenance procedures
FACILITY	70	record keeping/maintenance procedures
FACILITY	71	record keeping/maintenance procedures
FACILITY	72	record keeping/maintenance procedures
FACILITY	73	record keeping/maintenance procedures
FACILITY	74	record keeping/maintenance procedures
FACILITY	75	record keeping/maintenance procedures
FACILITY	76	record keeping/maintenance procedures
FACILITY	77	record keeping/maintenance procedures
U-00002	92	monitoring of process or control device parameters as surrogate
U-00002	93	monitoring of process or control device parameters as surrogate
U-00003	95	monitoring of process or control device parameters as surrogate
U-00003	96	monitoring of process or control device parameters as surrogate
U-00003/-/FZ1/FZ1SS	97	monitoring of process or control device parameters as surrogate
U-00003/-/FZ1/FZ1SS	98	monitoring of process or control device parameters as surrogate



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U-00003/-/FZ1/FZ2SS	99	monitoring of process or control device parameters as surrogate
U-00003/-/FZ1/FZ2SS	100	monitoring of process or control device parameters as surrogate
U-00003/-/FZ1/FZ5SS	101	monitoring of process or control device parameters as surrogate
U-00003/-/FZ1/FZ5SS	102	monitoring of process or control device parameters as surrogate
U-00003/-/FZ1/FZ6SS	103	monitoring of process or control device parameters as surrogate
U-00003/-/FZ1/FZ6SS	104	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZ3SS	105	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZ3SS	106	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZ4SS	107	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZ4SS	108	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZEP1	109	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZEP1	110	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZEP2	111	monitoring of process or control device parameters as surrogate
U-00003/-/FZ2/FZEP2	112	monitoring of process or control device parameters as surrogate
U-00012	127	monitoring of process or control device parameters as surrogate
U-00012	128	monitoring of process or control device parameters as surrogate
U-00013/00017/FC2/DM2DB	130	record keeping/maintenance procedures
FACILITY	78	record keeping/maintenance procedures
FACILITY	79	record keeping/maintenance procedures
FACILITY	80	record keeping/maintenance procedures
FACILITY	81	monitoring of process or control device parameters as surrogate
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	25	record keeping/maintenance procedures
FACILITY	26	record keeping/maintenance procedures
U-00001	86	record keeping/maintenance procedures
U-00002	87	work practice involving specific operations
U-00002	88	work practice involving specific operations
U-00002	89	intermittent emission testing
U-00003	94	intermittent emission testing
U-00008	119	intermittent emission testing
U-00009	120	record keeping/maintenance procedures
U-00010	121	record keeping/maintenance procedures
U-00012	122	intermittent emission testing
U-00012	123	work practice involving specific operations
U-00012	124	work practice involving specific operations
U-00017	131	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
U-00005/-/AA1	137	monitoring of process or control device parameters as surrogate
U-00010	138	record keeping/maintenance procedures
U-00015/-/AA2	139	monitoring of process or control device parameters as surrogate
FACILITY	29	record keeping/maintenance procedures
FACILITY	30	record keeping/maintenance procedures
FACILITY	31	intermittent emission testing
FACILITY	32	record keeping/maintenance procedures



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FACILITY	135	record keeping/maintenance procedures
FACILITY	35	record keeping/maintenance procedures
FACILITY	33	work practice involving specific operations
FACILITY	34	record keeping/maintenance procedures
FACILITY	136	record keeping/maintenance procedures
FACILITY	36	work practice involving specific operations
FACILITY	37	record keeping/maintenance procedures
FACILITY	38	record keeping/maintenance procedures
FACILITY	39	record keeping/maintenance procedures
FACILITY	40	monitoring of process or control device parameters as surrogate

Basis for Monitoring

Monitoring conditions in this permit are of four types:

1. Permit conditions with “intermittent emission testing”: this type of monitoring involves the direct measurement of contaminant (or surrogate contaminant) emissions from an emission point on a periodic basis.

The stack tests for the following limits/caps are this type of monitoring:

For both furnaces:

- the 40 CFR 63 NNN particulate limit carried over from the initial Title V permit.
- the New Source Review PM-10 lb/hr cap carried over from the initial Title V permit.
- the Part 212 0.050 grains/dscf limit carried over from the initial Title V permit.

For both lines (DM-1 and DM-2):

- the 40 CFR 63 NNN formaldehyde limit carried over from the initial Title V permit.

For the DM-1 line:

- the New Source Review PM-10 lb/hr cap for the DM-1 mixing chamber and the 2 WEPs (Wet Electrostatic Precipitator) stacks carried over from the initial Title V permit.
- (There is no New Source Review cap specifically for the DM-2 line because the DM-2 line was not modified.)

For the DM-2 line:

- the Part 212 0.050 grains/dscf particulate limit for the DM-2 mixing chamber carried over from the initial Title V permit.
- (There is no 0.050 gr/dscf limit for the DM-1 mixing chamber and 2WEPs because the New Source Review lb/hr cap is more stringent.)

2. Permit conditions with “monitoring of process or control device parameters as surrogate”: this type of monitoring involves the indirect measurement of emissions via monitoring of process or control device parameters and performance on a continuous or periodic basis.

The 3rd field secondary amperage and voltage monitoring at both furnace DEPs (Dry Electrostatic Precipitators) and both DM-1 WEPs; the plate wash water solids content monitoring at both WEPs; the water flow and pressure drop monitoring for all 6 scrubbers; the temperature monitoring for both incinerators; the free-formaldehyde content in the binder resin and the binder formulation monitoring; the surface coating (of asphalt) temperature monitoring; the mixed batch niter content monitoring are all this type of monitoring. For instance, the 3rd field secondary amperage and



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voltage monitoring parametric range limits are used to monitor the effectiveness of the precipitator control equipment. These parametric ranges were developed from past stack testing and were correlated with emissions limitations in the associated capping monitoring conditions on both furnaces and the DM-1 mixing chamber. Therefore, monitoring the parameters of amperage and voltage at the precipitators provides assurance that such control equipment is functioning properly and that emissions are in compliance with stated limits. Most of the 40 CFR Part 64, Compliance Assurance Monitoring conditions are this type of monitoring.

3. Permit conditions with “work practices involving specific operations”: this type of monitoring involves activities where time of operation, throughput of product, throughput of raw material, or parameter of a process material throughput is being measured and represents an operating limit.

The ton/yr glass throughput monitoring for both lines carried over from the initial Title V permit; the Part 228 coating VOC content monitoring; the 40 CFR 63 JJJJ organic HAP content of the ink monitoring are all this type of monitoring.

4. Permit conditions with “record keeping/maintenance procedures”: this type of monitoring refers to activities involving the upkeep of records to demonstrate compliance with a requirement or the application of maintenance procedures which may be necessary to maintain acceptable operations.

The remainder of the monitoring conditions are this type of monitoring.

Additional Discussions:

1. VOC Capping from Subpart 231-6 Requirements for the Starch-based Binder Conversion Project - Due to a possible increase in VOC emissions as a result of the starch-based binder conversion project, the increase in VOC emissions from the associated processes and sources is limited to no more than 39 tons per year in order to stay below the 6 NYCRR Part 231 significant project threshold of 40 tons per year and, thereby, avoid Subpart 231-6 applicability requirements. Adding the increase of 39 tons per year to the baseline VOC emissions of 59.78 tons per year (two-year average from 2005-2006 facility emission statements) results in a cap of 98.78 tons per year of total VOC emissions from the affected process sources.

Monitoring compliance with this ton per year VOC cap involves an approach to develop a limitation on the amount of corresponding binder solids used per year. First, VOC emissions testing will be conducted on the forming, curing, and cooling sections of the DM-1 and DM-2 manufacturing lines following the completion of the binder change project. From this testing, an emission factor in pounds of VOC emitted per pound of binder solids applied will be established for each manufacturing line. These line-specific emission factors will then be used in an equation to calculate the maximum binder solids application rate expressed in tons per year that will be allowed in order to maintain emissions to less than the VOC emissions cap of 98.78 tons per year. The detailed calculation approach is contained in a July 2010 amendment to “Appendix F – VOC Documentation” of the application for a Title V permit modification addressing the starch-based binder conversion project which was submitted by the facility to the Department in December 2009. For reference, the calculation approach is also shown immediately below:

In support of the 6 NYCRR 231-6 avoidance capping monitoring condition contained in the permit (cited as a facility level Subpart 201-7 capping monitoring condition), the following calculation approach shall be used to demonstrate compliance with the VOC emissions limit associated with the binder change project. Essentially, this approach will determine the maximum binder solids application rate (tons of



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binder solids applied per year) necessary to maintain emissions to less than the VOC limit of 98.78 tons per year.

EMISSION/BINDER USAGE LIMITS

- A.** Total VOC emissions from the DM-1 and DM-2 forming, cooling, and curing sections and Fugitive Sources U-0006 (Process ID 212, 229, **MSH**), U-0007 (Process ID BDR), U-0010 (Process ID FES) shall not exceed:

98.78 TPY AS A ROLLING, 12-MONTH SUMMATION OF EMISSIONS (A_{VOC})

- B.** The total rolling, 12-month binder solids usage from the DM-1 and DM-2 manufacturing lines (P_a) shall not exceed P_l and P_c as defined below in Equations 1 and 2:

Equation 1

$$P_a = \sum_{i=1}^n P_{a,i} \leq P_l \leq P_c$$

Equation 2

$$P_l = [A_{VOC} - E_{tanks}] \div \left[\left(\sum_{i=1}^n EF_i \right) \times \left(\frac{1 \text{ ton VOC}}{2,000 \text{ lbs VOC}} \right) \times \left(\frac{2,000 \text{ lbs binder solids}}{1 \text{ ton binder solids}} \right) \right]$$

Where:

- $Binder\ Solids$ = Materials in the binder solution that are not water
- P_a = Total actual rolling, 12-month binder solids usage for DM-1 and DM-2, tons per year
- $P_{a,i}$ = Actual rolling, 12-month binder solids usage for Line i , tons per year
- P_l = Total rolling, 12-month binder solids usage limit for DM-1 and DM-2, tons per year
- P_c = Total maximum binder solids usage corresponding to the maximum annual bare glass capacity (expressed in tons per year) and the maximum binder content of finished products (expressed as percent LOI) of DM-1 and DM-2, tons per year
- LOI = loss on ignition, which represents the fraction of the finished insulation product that consists of cured binder
- n = Total number of affected insulation lines



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- A_{VOC} = Rolling, 12-month allowable VOC emission limit specified in paragraph A above, tons per year
- EF_i = Emission factor in lb VOC/lb binder solids applied in the Line i forming section determined from the most recent performance test (required elsewhere in this permit) for Line i , and calculated as follows:

$$EF_i = \frac{e_{forming,i} + e_{curing,i} + e_{cooling,i}}{bar_i}$$

Where:

- $e_{forming,i}$ = Average VOC emission rate from the forming section of Line i during the performance test, lb VOC/hr
- $e_{curing,i}$ = Average VOC emission rate from the curing section of Line i during the performance test, lb VOC/hr
- $e_{cooling,i}$ = Average VOC emission rate from the cooling section of Line i during the performance test, lb VOC/hr
- bar_i = Average binder solids application rate in the forming section of Line i during the performance test, lb binder solids/hr

E_{tanks} = Actual VOC emissions from fugitive sources U-0006 (Process ID 212, 229, MSH), U-0007 (Process ID BDR), U-0010 (Process ID FES), based on actual throughput and determined using EPA Tanks software.

2. 40 CFR Part 63, Determination of Subpart NNN non-applicability to starch-based binder conversion - As part of its application submitted to the Department on December 7, 2009 for a permit modification to allow conversion from a binder system based on a phenol-formaldehyde resin to a binder system formulated around a starch-based resin at the Feura Bush (Delmar), New York facility, Owens Corning Insulating Systems, LLC (OCIS) presented supporting information (dated November 20, 2009 and March 9, 2010) requesting a determination regarding the applicability of the NESHAP for Wool Fiberglass Manufacturing (Subpart NNN) to operations at the OCIS Feura Bush facility following the binder conversion. The Department forwarded this request onto the United States Environmental Protection Agency (USEPA), which oversees the federal NESHAP program. In response, USEPA informed the Department on June 15, 2010 of its determination that, upon completion of the conversion to the starch-based binder system, the OCIS Feura Bush facility will no longer meet the definition of an affected facility in 40 CFR 63.1380 and, therefore, will no longer be subject to Subpart NNN.



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The NESHAP for Wool Fiberglass Manufacturing lists three affected sources subject to the standards of Subpart NNN: glass-melting furnaces located at a wool fiberglass manufacturing facility; rotary spin wool fiberglass manufacturing lines producing a bonded wool fiberglass building insulation product; and flame attenuation wool fiberglass manufacturing lines producing a bonded heavy density product. Currently, prior to the switch to a starch-based binder, the OCIS Feura Bush facility operates two glass-melting furnaces located at a wool fiberglass manufacturing facility and two rotary spin wool fiberglass manufacturing lines producing a bonded wool fiberglass building insulation product that are subject to Subpart NNN requirements. There is no flame attenuation wool fiberglass manufacturing line at the facility.

Consistent with other Subpart NNN determinations by USEPA for similar wool fiberglass manufacturing facilities elsewhere, the following is the rationale for the Subpart NNN non-applicability determination relating to the starch-based binder conversion. OCIS Feura Bush is claiming that due to the switch to a starch-based binder system from a phenol-formaldehyde binder, it will no longer produce a bonded product and, therefore, will not produce building insulation as defined per Subpart NNN. If the facility will no longer produce building insulation, then it will not meet the definition of a rotary spin manufacturing line. If there is no rotary spin manufacturing line or flame attenuation manufacturing line located at the facility, then the facility does not meet the definition of a wool fiberglass manufacturing facility in Subpart NNN. Additionally, OCIS is claiming that if the Feura Bush facility is no longer defined as a wool fiberglass manufacturing facility, as a result of the switch to a starch-based binder (i.e., non-phenol, non-formaldehyde), then the glass-melting furnaces located at the facility are no longer subject to Subpart NNN because these furnaces are no longer located at a wool fiberglass manufacturing facility.

Note that the Subpart NNN requirements will remain in the permit for the phenol-formaldehyde binder operations until such binder system is actually removed from the facility. It is noted in the permit, however, that the Subpart NNN conditions will not apply when the facility is using the starch-based binder system instead of the phenol-formaldehyde based binder. Furthermore, if at any point in the future after the starch-based binder conversion the facility decides to again use a phenol-formaldehyde binder, then the facility will immediately be subject to the Subpart NNN standards.