

**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION**

October 16, 2019

PERMIT TO INSTALL
315-01C

ISSUED TO
CertainTeed Ceilings Corporation

LOCATED AT
200 South Main Street
L'Anse, Michigan

IN THE COUNTY OF
Baraga

STATE REGISTRATION NUMBER
B1479

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: September 20, 2019	
DATE PERMIT TO INSTALL APPROVED: October 16, 2019	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

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COMMON ACRONYMS

AQD	Air Quality Division
BACT	Best Available Control Technology
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
COMS	Continuous Opacity Monitoring System
Department/department/EGLE	Michigan Department of Environment, Great Lakes, and Energy
EU	Emission Unit
FG	Flexible Group
GACS	Gallons of Applied Coating Solids
GC	General Condition
GHGs	Greenhouse Gases
HVLP	High Volume Low Pressure*
ID	Identification
IRSL	Initial Risk Screening Level
ITSL	Initial Threshold Screening Level
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MAERS	Michigan Air Emissions Reporting System
MAP	Malfunction Abatement Plan
MSDS	Material Safety Data Sheet
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review
PS	Performance Specification
PSD	Prevention of Significant Deterioration
PTE	Permanent Total Enclosure
PTI	Permit to Install
RACT	Reasonable Available Control Technology
ROP	Renewable Operating Permit
SC	Special Condition
SCR	Selective Catalytic Reduction
SNCR	Selective Non-Catalytic Reduction
SRN	State Registration Number
TBD	To Be Determined
TEQ	Toxicity Equivalence Quotient
USEPA/EPA	United States Environmental Protection Agency
VE	Visible Emissions

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm	Actual cubic feet per minute
BTU	British Thermal Unit
°C	Degrees Celsius
CO	Carbon Monoxide
CO ₂ e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H ₂ S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
m	Meter
mg	Milligram
mm	Millimeter
MM	Million
MW	Megawatts
NMOC	Non-Methane Organic Compounds
NO _x	Oxides of Nitrogen
ng	Nanogram
PM	Particulate Matter
PM ₁₀	Particulate Matter equal to or less than 10 microns in diameter
PM _{2.5}	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
scf	Standard cubic feet
sec	Seconds
SO ₂	Sulfur Dioxide
TAC	Toxic Air Contaminant
Temp	Temperature
THC	Total Hydrocarbons
tpy	Tons per year
µg	Microgram
µm	Micrometer or Micron
VOC	Volatile Organic Compounds
yr	Year

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.
11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**
13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. **(R 336.2001)**

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU-PERLITE_EXPAND1	Two perlite expanders (w/ natural gas burners) and conveying systems. The thermal expanders are controlled by a two-cyclone and three-baghouse system (with two baghouses serving as product collectors and one baghouse serving as a tertiary product collector).	03/01/1992	FG-PERLITE EXPAND
EU-PERLITE_EXPAND2	Two perlite expanders (w/ natural gas burners) and conveying systems. The thermal expanders are controlled by a two-cyclone and three-baghouse system (with two baghouses serving as product collectors and one baghouse serving as a tertiary product collector).	TBD	FG-PERLITE EXPAND
EU-FOURDRIN&COE	Fourdrinier board machine, backsizer coater, heat exchanger, and a Coe dryer (natural gas-fired).	09/24/1960	FG-COATING
EU-BOILER	A 27 MMBTU/hour Cleaver-Brooks boiler with natural gas firing capability.	10/31/1991	NA
EU-MAINLINE	Primary saws controlled by dust collector, Sander controlled by dust collector, Wheelabrator tile etch machine w/ internally vented dust collector, Fissure rolls controlled by dust collector, JBI spray booth (Model WF 1410-S) (Main line), two Curtain coaters, Stipple coater, CaCO3 applicator controlled by dust collector, two natural gas-fired dryers, Press controlled by dust collector, Mainline spray booth (Finishing line), Transco dryer (natural gas-fired), First pass secondary saw controlled by dust collector, back coat curtain coater (Lake loop), lanly dryer, Secondary saws controlled by dust collector, Splitting saw controlled by dust collector, Accumulators controlled by dust collector, Stackers controlled by dust collector. The dust collector equipment utilized for the equipment listed above with dust collectors are MAC#1, MAC#2 and MAC#3.	01/01/1978	FG-COATING FG-MAC#1 FG-MAC#2 FG-MAC#3

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU-NEWCUSTOMLINE	High speed trim/grove saw controlled by dust collector MAC#3, Bevel spray, JBI spray booth (Model WF 1810-S) (Custom line), BMH dryer (natural gas-fired), R&D flipper and accumulators.	08/16/2001	FG-COATING FG-MAC#3

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

**EU-FOURDRIN&COE
EMISSION UNIT CONDITIONS**

DESCRIPTION

Fourdrinier board machine, backsizer coater, heat exchanger, and a Coe dryer (natural gas-fired).

Flexible Group ID: FG-COATING

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV0002 - heat exchanger	72 x 30	40	40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
2. SV0003 – wet end seal fan	36	40	40 CFR 52.21(c) & (d)
3. SV0004 – zone #1 and zone #2	48	40	40 CFR 52.21(c) & (d)
4. SV0005 – zone #3	48	40	40 CFR 52.21(c) & (d)
5. SV0006 – zone #4	48	40	40 CFR 52.21(c) & (d)
6. SV0007 – dry end seal fan	60	40	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**EU-BOILER
EMISSION UNIT CONDITIONS**

DESCRIPTION

A 27 MMBTU/hour Cleaver-Brooks boiler with natural gas firing capability.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NO _x	0.2 pounds per million BTUs heat input	24-hour rolling average	EU-BOILER	GC 13	40 CFR 52.21(c) & (d)
2. NO _x	5.5 pounds per hour *	Hourly	EU-BOILER	GC 13	40 CFR 52.21(c) & (d)

* The maximum potential to emit is 24.1 tpy of NO_x based on 8,760 operating hours per year.

3. Visible emissions from EU-BOILER shall not exceed a six-minute average of 10 percent opacity. **(R 336.1301, R 336.1331, 40 CFR 52.21 (c) & (d))**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor emissions and operating information in accordance with the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Dc. **(R 336.1225, R 336.1702, 40 CFR Part 60 Subparts A & Dc)**
2. The permittee shall keep records of emissions and operating information to comply with the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Dc. All source emissions data and operating information is for the purpose of compliance demonstration. The permittee shall

keep all records on file at the facility and make them available to the Department upon request.
(R 336.1702, 40 CFR Part 60 Subparts A & Dc)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV0008	32	44	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Dc. **(40 CFR Part 60 Subparts A & Dc)**

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**EU-MAINLINE
EMISSION UNIT CONDITIONS**

DESCRIPTION

Cutting, coating and drying processes

Flexible Group ID: FG-COATING, FG-MAC#1, FG-MAC#2, FG-MAC#3

POLLUTION CONTROL EQUIPMENT

Water wash systems and dust collectors.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the spray booth portions of EU-MAINLINE unless their respective water wash systems are installed, maintained, and operated in a satisfactory manner. (R 336.1224, R 336.1301, R 336.1331, R 336.1910)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

NA

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV0009 – JBI spray booth	42	37	40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
2. SV0010a – Lanly dryer	16	32	40 CFR 52.21(c) & (d)
3. SV0010b – Lanly dryer	16	32	40 CFR 52.21(c) & (d)
4. SV0010c – Lanly dryer	16	32	40 CFR 52.21(c) & (d)
5. SV0011 – Mainline spray booth	35	33	40 CFR 52.21(c) & (d)
6. SV0012 – Transco dryer	16	32	40 CFR 52.21(c) & (d)
7. SV0013 – Transco dryer	18	32	40 CFR 52.21(c) & (d)
8. SV0014 – Transco dryer	18	32	40 CFR 52.21(c) & (d)
9. SV00029A – 70/40 dryer Zone 1	20	33.75	40 CFR 52.21(c) & (d)
10. SV00029B – 70/40 dryer Zone 2	20	33.75	40 CFR 52.21(c) & (d)
11. SV00029C – 70/40 dryer Zone 3	16	33.75	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**EUNEWCUSTOMLINE
EMISSION UNIT CONDITIONS**

DESCRIPTION

Cutting, coating and drying processes

Flexible Group ID: FG-COATING, FG-MAC#3

POLLUTION CONTROL EQUIPMENT

Water-wash and dust collector system.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not cure tiles at temperatures greater than 500°F in the BMH dryer portion of EU-NEWCUSTOMLINE. **(R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the spray booth portion of EU-NEWCUSTOMLINE unless the water wash system is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1301, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor the temperature in the BMH dryer portion of EU-NEWCUSTOMLINE on a continuous basis. **(R 336.1225, R 336.1702)**
2. The permittee shall record and keep, in a satisfactory manner, daily temperature records for the BMH dryer portion of EU-NEWCUSTOMLINE. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1225, R 336.1702)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV0015 – JBI spray booth	48	37	40 CFR 52.21(c) & (d)
2. SV0016a – BMH dryer	36	37	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-COATING	Various coating operations at the facility.	EU-FOURDRIN&COE EU-MAINLINE EU-NEWCUSTOMLINE
FG-PERLITE EXPAND	Perlite expansion system consisting of four perlite expanders. Emissions are controlled by a system of cyclones and baghouses.	EU-PERLITE EXPAND1 EU-PERLITE EXPAND2
FG-MAC#1	Operations controlled by the MAC#1 cartridge filter dust collector.	EU-MAINLINE
FG-MAC#2	Operations controlled by the MAC#2 cartridge filter dust collector.	EU-MAINLINE
FG-MAC#3	Operations controlled by the MAC#3 cartridge filter dust collector.	EU-MAINLINE EU-NEWCUSTOMLINE
FG-MACS	Operations controlled by the MAC#1, MAC#2, and MAC#3 cartridge filter dust collectors.	EU-MAINLINE EU-NEWCUSTOMLINE
FG-WHEELABRATOR	Wheelabrator tile etch machine w/ internally vented cartridge type dust collector.	EU-MAINLINE

**FG-COATING
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Various coating operations at the facility

Emission Unit: EU-FOURDRIN&COE, EU-MAINLINE, and EU-NEWCUSTOMLINE

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	14.0 tpy	12-month rolling time period as determined at the end of each calendar month	FG-COATING	SC VI.2	R 336.1225 R 336.1702(a)
2. Acetaldehyde (CAS No. 75-07-0)	1.46 tpy	12-month rolling time period as determined at the end of each calendar month	FG-COATING	SC VI.3	R 336.1225(1)
3. Acrylamide (CAS No. 79-06-1)	0.02 tpy	12-month rolling time period as determined at the end of each calendar month	FG-COATING	SC VI.4	R 336.1225(1)
4. Glutaraldehyde (CAS No. 111-30-8)	0.27 tpy	12-month rolling time period as determined at the end of each calendar month	FG-COATING	SC VI.5	R 336.1225(1)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC Content	0.23 lb/gal (minus water) ^a as applied	Instantaneous	FG-COATING	SC V.1	R 336.1702(a)

^a The phrase "minus water" shall also include compounds which are used as organic solvents and which are excluded from the definition of volatile organic compound. **(R 336.1602(4))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. All waste coatings and solvents shall be captured and stored in closed containers and shall be disposed of in an acceptable manner in compliance with all applicable rules and regulations. **(R 336.1224, R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The VOC content, water content, and density of any coatings or solvents, as applied and as received, shall be determined using federal Reference Test Method 24. For waterborne coatings or solvents, upon prior written approval by the AQD District Supervisor, the VOC content may be determined from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the Method 24 results shall be used to determine compliance. **(R 336.1224, R 336.1225, R 336.1702)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating or solvent, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both. All records are for the purpose of compliance demonstration. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702)**
2. The permittee shall keep the following information on a monthly basis for FG-COATING:
 - a) Gallons (with water) of each coating or solvent used.
 - b) Gallons (with water) of Rheolate 450 used per month.
 - c) Gallons (with water) of Rheolate 450 used per 12-month rolling time period as determined at the end of each calendar month.
 - d) VOC content (minus water and with water) of each coating or solvent as applied.
 - e) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - f) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The records are for the purpose of compliance demonstration and shall be kept in a format acceptable to the AQD Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702(a))**

3. The permittee shall keep the following information on a monthly basis for FG-COATING:
 - a) Gallons (with water) of each acetaldehyde (CAS No. 75-07-0) containing coating or solvent used.
 - b) Acetaldehyde (CAS No. 75-07-0) content (with water) of each coating or solvent as applied.
 - c) Acetaldehyde (CAS No. 75-07-0) mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) Acetaldehyde (CAS No. 75-07-0) mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The records are for the purpose of compliance demonstration and shall be kept in a format acceptable to the AQD Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702(a))**

4. The permittee shall keep the following information on a monthly basis for FG-COATING:
 - a) Gallons (with water) of each acrylamide (CAS No. 79-06-1) containing coating or solvent used.
 - b) Acrylamide (CAS No. 79-06-1) content (with water) of each coating or solvent as applied.

- c) Acrylamide (CAS No. 79-06-1) mass emission calculations determining the monthly emission rate in tons per calendar month.
- d) Acrylamide (CAS No. 79-06-1) mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The records are for the purpose of compliance demonstration and shall be kept in a format acceptable to the AQD Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702(a))**

5. The permittee shall keep the following information on a monthly basis for FG-COATING:
- a) Gallons (with water) of each glutaraldehyde (CAS No. 111-30-8) containing coating or solvent used.
 - b) Glutaraldehyde (CAS No. 111-30-8) content (with water) of each coating or solvent as applied.
 - c) Glutaraldehyde (CAS No. 111-30-8) mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) Glutaraldehyde (CAS No. 111-30-8) mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The records are for the purpose of compliance demonstration and shall be kept in a format acceptable to the AQD Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702(a))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV0002 - heat exchanger	72 x 30	40	R 336.1225, 40 CFR 52.21(c) & (d)
2. SV0003 – wet end seal fan	36	40	R 336.1225, 40 CFR 52.21(c) & (d)
3. SV0004 – zone #1 and zone #2	48	40	R 336.1225, 40 CFR 52.21(c) & (d)
4. SV0005 – zone #3	48	40	R 336.1225, 40 CFR 52.21(c) & (d)
5. SV0006 – zone #4	48	40	R 336.1225, 40 CFR 52.21(c) & (d)
6. SV0007 – dry end seal fan	60	40	R 336.1225, 40 CFR 52.21(c) & (d)
7. SV0009 – JBI spray booth	42	37	R 336.1225, 40 CFR 52.21(c) & (d)
8. SV0010a – Lanly dryer	16	32	R 336.1225, 40 CFR 52.21(c) & (d)
9. SV0010b – Lanly dryer	16	32	R 336.1225, 40 CFR 52.21(c) & (d)
10. SV0010c – Lanly dryer	16	32	R 336.1225, 40 CFR 52.21(c) & (d)
11. SV0012 – Transco dryer	16	32	R 336.1225, 40 CFR 52.21(c) & (d)
12. SV0013 – Transco dryer	18	32	R 336.1225, 40 CFR 52.21(c) & (d)
13. SV0014 – Transco dryer	18	32	R 336.1225, 40 CFR 52.21(c) & (d)

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
14. SV00029A – 70/40 dryer Zone 1	20	33.75	R 336.1225, 40 CFR 52.21(c) & (d)
15. SV00029B – 70/40 dryer Zone 2	20	33.75	R 336.1225, 40 CFR 52.21(c) & (d)
16. SV00029C – 70/40 dryer Zone 3	16	33.75	R 336.1225, 40 CFR 52.21(c) & (d)
17. SV0015 – JBI spray booth	48	37	R 336.1225, 40 CFR 52.21(c) & (d)
18. SV0016a – BMH dryer	36	37	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**FG-PERLITE_EXPAND
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Perlite expansion system consisting of four perlite expanders. Emissions are controlled by a system of cyclones and baghouses.

Emission Unit: EU-PERLITE_EXPAND1, EU-PERLITE_EXPAND2

POLLUTION CONTROL EQUIPMENT

Each emission unit is controlled by a system composed of two cyclones and three dust collectors (with two baghouses serving as product collectors and one shared baghouse serving as a tertiary product collector).

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM	0.04 lbs per 1,000 lbs of exhaust gas *	Hourly	Each dust collector in FG-PERLITE_EXPAND	GC 13	R 336.1331 (c), 40 CFR 52.21(c) & (d)
2. PM10	0.37 pph	Hourly	Each dust collector in FG-PERLITE_EXPAND**	GC 13	R 336.1331 (c), 40 CFR 52.21(c) & (d)
3. PM2.5	0.15 pph	Hourly	Each dust collector in FG-PERLITE_EXPAND**	GC 13	R 336.1331 (c), 40 CFR 52.21(c) & (d)
4. PM10	0.43 pph	Hourly	Tertiary baghouse portion of FG-PERLITE_EXPAND	GC 13	R 336.1331 (c), 40 CFR 52.21(c) & (d)
5. PM2.5	0.18 pph	Hourly	Tertiary baghouse portion of FG-PERLITE_EXPAND	GC 13	R 336.1331 (c), 40 CFR 52.21(c) & (d)
* The pph is a mass limit and the lbs/1000 lbs of exhaust gas is a concentration limit. Both limits are calculated on a dry gas basis and apply on a per stack basis.					
** This limit applies to the baghouses serving as the primary and secondary collectors.					

6. Visible emissions from FG-PERLITE_EXPAND shall not exceed a six-minute average of 10 percent opacity. **(R 336.1301, R 336.1303, R 336.1331, 40 CFR 52.21 (c) & (d))**

II. MATERIAL LIMIT(S)

1. The permittee shall burn only pipeline quality natural gas in FG-PERLITE_EXPAND. **(R 336.1224, R 336.1225, R 336.1702(a), 40 CFR 52.21(c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not process any asbestos tailing or asbestos containing waste materials in FG-PERLITE_EXPAND pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. **(R 336.1224, R 336.1225, 40 CFR Part 61 Subpart M)**

2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. **(R 336.1224, R 336.1370)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the expander portion of FG-PERLITE_EXPAND unless the cyclones and dust collectors are both installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**
2. The permittee shall not operate FG-PERLITE_EXPAND unless gauges which measure the pressure drop across each dust collector are installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record the pressure drop across each dust collector in FG-PERLITE_EXPAND a minimum of once per week. **(R 336.1224, R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**
2. The permittee shall visually inspect and record observations of emissions from the dust collector vents while FG-PERLITE_EXPAND is operating. These observations shall be conducted on a weekly basis. **(R 336.1301, R 336.1303, R 336.1331, R 336.1910)**
3. The permittee shall monitor the dust collector emission points to verify the filters are operating properly, by taking visible emission readings for FG-PERLITE_EXPAND a minimum of once per calendar week. A "visible emissions reading" refers to a survey to be performed for the purpose of determining if there is the presence of visible emissions or if there are no visible emissions, other than uncombined water vapor. Visible emission readings shall be taken at least once per week, for one minute in duration, during daylight hours and during routine operating conditions. This can be performed by either a certified or non-certified reader. Such readings do not have to be conducted per the requirements of Method 9. Multiple stacks may be observed simultaneously. If any visible emissions (other than uncombined water vapor) are observed, the permittee shall immediately inspect the filters and perform any required maintenance. **(R 336.1910, 40 CFR 52.21 (c) & (d))**
6. The permittee shall keep, according to a method acceptable to the AQD District Supervisor, weekly records of visual inspections for each dust collector in FG-PERLITE_EXPAND. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, status of visible emissions, and any corrective action taken. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EU-PERLITE_EXPAND2. **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV0001a	26	28	40 CFR 52.21(c) & (d)
2. SV0001b	26	28	40 CFR 52.21(c) & (d)
3. SV0022a	24	45	40 CFR 52.21(c) & (d)
4. SV0022b	24	45	40 CFR 52.21(c) & (d)
5. SV0022c	21	48	40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**FG-MACS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Operations controlled by the MAC#1, MAC#2, and MAC#3 cartridge filter dust collectors.

Emission Unit: EU-MAINLINE and EU-NEWCUSTOMLINE

POLLUTION CONTROL EQUIPMENT

Cartridge filter dust collectors MAC#1, MAC#2, and MAC#3

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM10	1.6 pph	Hourly	FG-MAC#1	GC 13	R 336.1331 (c)
2. PM	0.01 lbs per 1,000 lbs of exhaust gas*	Test protocol	FG-MAC#1	GC 13	R 336.1331, 40 CFR 52.21(c) & (d)
3. PM10	2.0pph	Hourly	FG-MAC#2	GC 13	R 336.1331 (c)
4. PM	0.01 lbs per 1,000 lbs of exhaust gas*	Test protocol	FG-MAC#2	GC 13	R 336.1331, 40 CFR 52.21(c) & (d)
5. PM10	2.4 pph	Hourly	FG-MAC#3	GC 13	R 336.1331 (c)
6. PM	0.01 lbs per 1,000 lbs of exhaust gas*	Test protocol	FG-MAC#3	GC 13	R 336.1331, 40 CFR 52.21(c) & (d)

* Calculated on a dry gas basis.

3. Visible emissions from FG-MAC#1, FG-MAC#2, and FG-MAC#3 shall not exceed a six-minute average of 5 percent opacity. **(R 336.1301, R 336.1303, R 336.1331, 40 CFR 52.21 (c) & (d))**

II. MATERIAL LIMIT(S)

1. The permittee shall not process any asbestos tailing or asbestos containing waste materials in FG-MACS pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. **(R 336.1224, R 336.1225, 40 CFR Part 61 Subpart M)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FG-MAC#1 unless cartridge filter dust collector MAC#1 is installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**
2. The permittee shall not operate FG-MAC#1 unless a gauge which measures the pressure drop across dust collector MAC#1 is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1331, R 336.1910)**

3. The permittee shall not operate FG-MAC#2 unless cartridge filter dust collector MAC#2 is installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**
4. The permittee shall not operate FG-MAC#2 unless a gauge which measures the pressure drop across dust collector MAC#2 is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1331, R 336.1910)**
5. The permittee shall not operate FG-MAC#3 unless cartridge filter dust collector MAC#3 is installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**
6. The permittee shall not operate FG-MAC#3 unless a gauge which measures the pressure drop across dust collector MAC#3 is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record the pressure drop across each cartridge filter dust collector in FG-MACS a minimum of once per week. **(R 336.1224, R 336.1331, R 336.1910)**
2. The permittee shall visually inspect and record observations of emissions from the dust collector vent while FG-MAC#1 is operating. These observations shall be conducted on a weekly basis. **(R 336.1301, R 336.1303, R 336.1331, R 336.1910)**
3. The permittee shall visually inspect and record observations of emissions from the dust collector vent while FG-MAC#2 is operating. These observations shall be conducted on a weekly basis. **(R 336.1301, R 336.1303, R 336.1331, R 336.1910)**
4. The permittee shall visually inspect and record observations of emissions from the dust collector vent while FG-MAC#3 is operating. These observations shall be conducted on a weekly basis. **(R 336.1301, R 336.1303, R 336.1331, R 336.1910)**
5. The permittee shall keep, according to a method acceptable to the AQD District Supervisor, weekly records of pressure drop for each cartridge filter dust collector in FG-MACS. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1910, 40 CFR 52.21 (c) & (d))**
6. The permittee shall keep, according to a method acceptable to the AQD District Supervisor, weekly records of visual inspections for each cartridge filter dust collector in FG-MACS. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, R 336.1331)**

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of FG-MACS. **(R 336.1201(7)(a))**

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV0017*	48 x 36	14.25	40 CFR 52.21(c) & (d)
2. SV0018*	48 x 36	14.25	40 CFR 52.21(c) & (d)
3. SV0019*	48 x 36	14.25	40 CFR 52.21(c) & (d)
4. SV0017	48 x 36	35	40 CFR 52.21(c) & (d)
5. SV0018	48 x 36	35	40 CFR 52.21(c) & (d)
6. SV0019	48 x 36	35	40 CFR 52.21(c) & (d)

* Stacks will continue operate at 14.25 ft until the startup of EU-PERLITE_EXPAND2.

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

**FG-WHEELABRATOR
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Wheelabrator tile etch machine.

Emission Unit: EU-MAINLINE

POLLUTION CONTROL EQUIPMENT

Internally vented cartridge type dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. PM10	0.344 pph	Hourly	FG-WHEELABRATOR	GC 13	R 336.1331 (c)
2. PM	0.01 lbs per 1,000 lbs of exhaust gas*	Test protocol	FG-WHEELABRATOR	GC 13	R 336.1331, 40 CFR 52.21(c) & (d)
* Calculated on a dry gas basis.					

3. Visible emissions from FG-WHEELABRATOR shall not exceed a six-minute average of 5 percent opacity. **(R 336.1301, R 336.1303, R 336.1331, 40 CFR 52.21 (c) & (d))**

II. MATERIAL LIMIT(S)

1. The permittee shall not process any asbestos tailing or asbestos containing waste materials in FG-WHEELABRATOR pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. **(R 336.1224, R 336.1225, 40 CFR Part 61 Subpart M)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate FG-WHEELABRATOR unless the cartridge type dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1331, R 336.1910, 40 CFR 52.21 (c) & (d))**

2. The permittee shall not operate FG-WHEELABRATOR unless a gauge which measures the pressure drop across the dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1224, R 336.1331, R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall monitor and record the pressure drop across the cartridge filter dust collector in FG-WHEELABRATOR a minimum of once per week. **(R 336.1224, R 336.1331, R 336.1910)**
2. The permittee shall visually inspect and record observations of emissions from the dust collector vent while FG-WHEELABRATOR is operating. These observations shall be conducted on a weekly basis. **(R 336.1301, R 336.1303, R 336.1331, R 336.1910)**
3. The permittee shall keep, according to a method acceptable to the AQD District Supervisor, weekly records of pressure drop for the cartridge filter dust collector in FG-WHEELABRATOR. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1910, 40 CFR 52.21 (c) & (d))**
4. The permittee shall keep, according to a method acceptable to the AQD District Supervisor, weekly records of visual inspections for the cartridge type dust collector in FG-WHEELABRATOR. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, R 336.1331)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

1. The exhaust gases from FG-WHEELABRATOR shall not be discharged to the ambient air at any time. **(40 CFR 52.21 (c) & (d))**

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

- ¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FGFACILITY CONDITIONS

DESCRIPTION: The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. NO _x	Less than 90 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205(3)
2. Formaldehyde (CAS No. 50-00-0)	0.35 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.3	R 336.1225(2)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Natural Gas	1.28x 10 ⁹ cubic ft	12-month rolling time period	FGFACILITY	SC VI.1	R 336.1205(3)

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep monthly natural gas usage records, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a calendar month basis, and a 12-month rolling time period basis used in FGFACILITY. All records are for the purpose of compliance demonstration. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(3))**
2. The permittee shall calculate the actual emissions of NO_x, from FGFACILITY based on the most recent calendar year. If stack test results for FGFACILITY exist for the aforementioned pollutant, those stack test results may be used to estimate pollutant emissions subject to the approval of the AQD. In the event that

stack test results do not exist for a specific pollutant, the applicable emission factor listed in AP-42 shall be used to estimate the emissions of the pollutant from FGFACILITY. All records are for the purpose of compliance demonstration. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(3))**

3. The permittee shall keep the following information on a monthly basis for FGFACILITY:
- a) Gallons (with water) of each formaldehyde (CAS No. 50-00-0) containing coating or solvent used.
 - b) Formaldehyde (CAS No. 50-00-0) content (with water) of each coating or solvent as applied.
 - c) Formaldehyde (CAS No. 50-00-0) mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) Formaldehyde (CAS No. 50-00-0) mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The records are for the purpose of compliance demonstration and shall be kept in a format acceptable to the AQD Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1225(2))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).