



February 8, 2023

Michigan Department of Environment, Great Lakes and Energy (EGLE)
Air Quality Division (AQD)
Grand Rapids District Office
350 Ottawa Avenue NW, Unit 10,
Grand Rapids, MI 49503

Subject: Application for Minor Modification of Renewable Operating Permit (ROP)
Louisiana-Pacific Corporation, Sagola Mill, SRN N1315
ROP Number MI-ROP-N1315-2018

TRC respectfully submits this application for minor modification of ROP on behalf of the Louisiana-Pacific Corporation (LP) for its facility in Sagola, Michigan (Sagola Mill). This application is submitted to incorporate the conditions of two approved Permit Install (PTI) numbers 24-22 and 24-22A into the facility's existing ROP number MI-ROP-N1315-2018 per Rule 216(2).

LP was issued the PTI numbers 24-22 and 24-22A on March 14, 2022 and December 14, 2022 respectively to expand and convert the existing Sagola Mill to respond to market demand for siding and similar specialty engineered wood panel products. The expansion and conversion of the Sagola Mill included number of changes to the existing oriented strand board plant and installation of new equipment in an expanded building footprint. The expansion and conversion represent a minor modification to the Sagola Mill. These changes were approved in the two above mentioned PTIs and need to be incorporated into the existing ROP. Therefore, content of the PTIs have been proposed to be incorporated into the existing ROP where applicable.

This application contains the required information for an administratively complete ROP modification application that includes the following:

- Attachment 1: EGLE Forms.
- Attachment 2: Copy of PTI Numbers 24-22 and 24-22A
- Attachment 2: Mark-up of the existing ROP.

A copy of the completed application has been submitted electronically via email to EGLE-ROP@michigan.gov.

EGLE-AQD
Grand Rapids District Office
February 8, 2023
Page 2

Application No. 202300036

If you have any questions or concerns, or need additional information, please contact Rich Menard, LP Sagola Plant Environmental Manager at 906-542-7360 or rich.menard@lpcorp.com or me at 513-386-6288 or jslayback@trccompanies.com.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read 'JS', with a long horizontal stroke extending to the right.

Jeff Slayback
Project Manager

Attachments

cc: Rich Menard, LP Sagola

Application No. 202300036

Attachment 1



Michigan Department of Environment, Great Lakes, and Energy - Air Quality Division

**RENEWABLE OPERATING PERMIT APPLICATION
C-001: CERTIFICATION**

This information is required by Article II, Chapter 1, part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to provide this information may result in civil and/or criminal penalties. Please type or print clearly.

This form is completed and included as part of Renewable Operating Permit (ROP) initial and renewal applications, notifications of change, amendments, modifications, and additional information.

Form Type C-001	SRN N1315
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Stationary Source Name Louisiana-Pacific Corporation, Sagola Plant	
City Sagola	County Dickinson

SUBMITTAL CERTIFICATION INFORMATION	
1. Type of Submittal <i>Check only one box.</i>	
<input type="checkbox"/> Initial Application (Rule 210)	<input checked="" type="checkbox"/> Notification / Administrative Amendment / Modification (Rules 215/216)
<input type="checkbox"/> Renewal (Rule 210)	<input type="checkbox"/> Other, describe on AI-001
2. If this ROP has more than one Section, list the Section(s) that this Certification applies to _____	
3. Submittal Media <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> FTP <input type="checkbox"/> Disk <input checked="" type="checkbox"/> Paper	
4. Operator's Additional Information ID - Create an Additional Information (AI) ID that is used to provide supplemental information on AI-001 regarding a submittal. AI -01	

CONTACT INFORMATION	
Contact Name Richard Menard	Title Plant Environmental Manager
Phone number 906-542-7360	E-mail address rich.menard@lpcorp.com

This form must be signed and dated by a Responsible Official.				
Responsible Official Name Brett Wiene			Title Plant Manager	
Mailing address N8504 Highway M-95				
City Sagola	State MI	ZIP Code 49881	County Dickinson	Country USA
As a Responsible Official, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this submittal are true, accurate and complete.				
 Signature of Responsible Official			2/7/23 Date	



RENEWABLE OPERATING PERMIT M-001: RULE 215 CHANGE NOTIFICATION RULE 216 AMENDMENT/MODIFICATION APPLICATION

This information is required by Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment.

1. SRN N1315	2. ROP Number MI-ROP-N1315-2018	3. County Dickinson
4. Stationary Source Name Louisiana-Pacific Corporation, Sagola Plant		
5. Location Address N8504 Highway M-95		6. City Sagola
<p>7. Submittal Type - <i>The submittal must meet the criteria for the box checked below. Check only one box. Attach a mark-up of the affected ROP pages for applications for Rule 216 changes.</i></p> <p><input type="checkbox"/> Rule 215(1) Notification of change. <i>Complete Items 8 – 10 and 14</i></p> <p><input type="checkbox"/> Rule 215(2) Notification of change. <i>Complete Items 8 – 10 and 14</i></p> <p><input type="checkbox"/> Rule 215(3) Notification of change. <i>Complete Items 8 – 11 and 14</i></p> <p><input type="checkbox"/> Rule 215(5) Notification of change. <i>Complete Items 8 – 10 and 14</i></p> <p><input type="checkbox"/> Rule 216(1)(a)(i)-(iv) Administrative Amendment. <i>Complete Items 8 – 10 and 14</i></p> <p><input type="checkbox"/> Rule 216(1)(a)(v) Administrative Amendment. <i>Complete Items 8 – 14. Results of testing, monitoring & recordkeeping must be submitted. See detailed instructions.</i></p> <p><input checked="" type="checkbox"/> Rule 216(2) Minor Modification. <i>Complete Items 8 – 12 and 14</i></p> <p><input type="checkbox"/> Rule 216(3) Significant Modification. <i>Complete Items 8 – 12 and 14, and provide any additional information needed on ROP application forms. See detailed instructions.</i></p> <p><input type="checkbox"/> Rule 216(4) State-Only Modification. <i>Complete Items 8 – 12 and 14</i></p>		
8. Effective date of the change. (MM/DD/YYYY) <i>See detailed instructions.</i> <u>02/20/2023</u>		9. Change in emissions? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>10. Description of Change - <i>Describe any changes or additions to the ROP, including any changes in emissions and/or pollutants that will occur. If additional space is needed, complete an Additional Information form (AI-001).</i></p> <p>Louisiana-Pacific Corporation – Sagola Mill was issued a Permit to Install (PTI) number 24-22A on December 14, 2022 to expand and convert the existing Sagola Mill. The expansion and conversion of the Sagola Mill included changes to the existing oriented strand board plant and installation of new equipment in an expanded building.</p>		
11. New Source Review Permit(s) to Install (PTI) associated with this application? If Yes, enter the PTI Number(s) <u>24-22</u> <u>24-22A</u> - - -		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12. Compliance Status - <i>A narrative compliance plan, including a schedule for compliance, must be submitted using an AI-001 if any of the following are checked No.</i>		
a. Is the change identified above in compliance with the associated applicable requirement(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b. Will the change identified above continue to be in compliance with the associated applicable requirement(s)?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
c. If the change includes a future applicable requirement(s), will timely compliance be achieved?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
13. Operator's Additional Information ID - <i>Create an Additional Information (AI) ID for the associated AI-001 form used to provide supplemental information.</i>		AI M01
14. Contact Name Richard Menard	Telephone No. 906-542-7360	E-mail Address rich.menard@lpcorp.com
15. This submittal also updates the ROP renewal application submitted on <u>02/08/2023</u> <i>(If yes, a mark-up of the affected pages of the ROP must be attached.)</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A

NOTE: A CERTIFICATION FORM (C-001) SIGNED BY A RESPONSIBLE OFFICIAL MUST ACCOMPANY ALL SUBMITTALS

For Assistance
Contact: 800-662-9278

www.michigan.gov/egle



RENEWABLE OPERATING PERMIT APPLICATION

AI-001: ADDITIONAL INFORMATION

This information is required by Article II, Chapter 1, Part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Please type or print clearly. Refer to instructions for additional information to complete this form.

SRN: N1315	Section Number (if applicable):
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1. Additional Information ID AI-M01

Additional Information

2. Is This Information Confidential?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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The expansion and conversion represent a minor modification to the Sagola Mill. These changes to the Mill needs to be incorporated into the existing ROP by incorporating the approved PTI. The proposed changes to the terma and conditions in the existing ROP is included in the attached mark-up copy of the ROP.

Attachment 2

PERMIT TO INSTALL

Table of Contents

COMMON ACRONYMS 2

POLLUTANT / MEASUREMENT ABBREVIATIONS..... 3

GENERAL CONDITIONS 4

EMISSION UNIT SPECIAL CONDITIONS..... 6

 EMISSION UNIT SUMMARY TABLE 6

 EUPRESS..... 8

FLEXIBLE GROUP SPECIAL CONDITIONS..... 12

 FLEXIBLE GROUP SUMMARY TABLE 12

 FGBH1..... 13

 FGBH2..... 15

 FGBH3..... 17

 FGBH4..... 19

 FGBH5..... 21

 FGBH6..... 23

 FGBH7..... 25

 FGBH8..... 27

 FGLAIDIG 29

 FGFINISHOVENS..... 31

 FGBLRS/HTRS..... 33

FGFACILITY CONDITIONS..... 34

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
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	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
EUPRESS	Press System (EUPRESS) including the mat forming line with a paper overlay system and the board press. The paper overlay system will unroll, measure, cut, and apply the paper to the formed mat prior to the board press. The board press will include embossing plates to provide the SmartSide® wood grain finish. Emissions from EUPRESS are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO). When operating as a RCO a layer of catalyst is placed in the combustion chamber, which allows the oxidation of VOC and HAPs to occur at lower temperatures. If the catalyst deactivates, the RCO can be converted to a RTO simply by increasing the temperature in the combustion chamber. Exposing the catalyst to high temperatures for prolonged periods of time deactivates the catalyst thus a RTO cannot be converted to a RCO unless the new layer of catalyst is placed in the combustion chamber.	1988 / 1996 / 2004 / 2008 / 2022	N/A
EUFORMING	Forming line system includes blenders, formers, fines blender, fines former, flying cut off saw, mat forming line controlled by baghouse dust collector BH2.	1988 / 1998 / 2022	FGBH2, FGBH1
EUSAWLINE	Sawline system includes first and second pass saws and controlled by baghouse dust collector BH4.	1988 / 1998 / 2022	FGBH4, FGBH1, FGBH5
EUPULVERIZING1	#1 Fuel fines pulverizing mill	2003	FGBH3
EUPULVERIZING2	#2 Fuel fines pulverizing mill	2003	FGBH3
EUSANDER	Sanding operations controlled by a baghouse dust collector BH7.	1988 / 1998	FGBH7, FGBH1, FGBH5
EUTGPATTERN	Tongue and Groove machine controlled by a baghouse dust collector BH7.	1988 / 1998	FGBH7, FGBH1, FGBH5
EUHAMMERMILL1	Primary fuel fines hammermill.	1988 / 1998	FGBH7, FGBH1, FGBH5
EUFUELBIN	Fuel fines bin controlled by a bin vent filter.	1988 / 2003	FGLAIDIG, FGBH1, FGBH3
EUPANELLINE	Board (panel) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5
EUPANELOV	Direct heated natural gas-fired oven on the Panel finishing line, total heat input 5.0 million Btu/hr.	2022	FGFINISHOVENS

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EULAPLANE1	Board (lap) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5
EULAP1OV	Direct heated natural gas-fired oven on the Lap finishing lane 1, total heat input 5.0 million Btu/hr	2022	FGFINISHOVENS
EULAP1XOV	Direct heated natural gas-fired oven on the Lap finishing lane 1, total heat input 6.3 million Btu/hr.	2022	FGFINISHOVENS
EULAPLANE2	Board (lap) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5
EULAP2OV	Direct heated natural gas-fired oven on the Lap finishing lane 2, total heat input 5.0 million Btu/hr.	2022	FGFINISHOVENS
EULAP2XOV	Direct heated natural gas-fired oven on the Lap finishing lane 2, total heat input 6.3 million Btu/hr.	2022	FGFINISHOVENS
EUVSLINE	Board (vented soffit) sawing, trimming, sanding, and finishing controlled by baghouse dust collector BH8.	2022	FGBH8, FGBH5
EUPRIMER	Non-VOC/HAP primer application on Panel, Lap, and VS lines by high-pressure spray or fan coater.	2022	N/A
EUHOG	Downgrade hog and room aspirations controlled by baghouse dust collector BH8.	2022	FGBH8, FGBH5
EUOVERFINES	Overlay fines hammermill, storage bin, and metering bin controlled by baghouse dust collector BH5.	2022	FGBH5
EUSCREENS	Aspiration from rotary screeners, conveyors, and dry bins controlled by baghouse dust collector BH1.	2022	FGBH1

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.

**EUPRESS
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Press System (EUPRESS) including the mat forming line with a paper overlay system and the board press. The paper overlay system will unroll, measure, cut, and apply the paper to the formed mat prior to the board press. The board press will include embossing plates to provide the SmartSide® wood grain finish. Emissions from EUPRESS are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO). When operating as a RCO a layer of catalyst is placed in the combustion chamber, which allows the oxidation of VOC and HAPs to occur at lower temperatures. If the catalyst deactivates, the RCO can be converted to a RTO simply by increasing the temperature in the combustion chamber. Exposing the catalyst to high temperatures for prolonged periods of time deactivates the catalyst thus an RTO cannot be converted to a RCO unless the new layer of catalyst is placed in the combustion chamber.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

RCO or RTO

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	43.0 pph	Hourly	EUPRESS	SC V.1	40 CFR 52.21 (c), (d), and (j)
2. NOx	155.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUPRESS	SC VI.2	40 CFR 52.21 (c), (d), and (j)
3. CO	0.51 lb/TFP	12-month rolling time period as determined at the end of each calendar month	EUPRESS	SC V.1, and FGFACILITY SC I.1, SC 1.2, SC VI.2	40 CFR 52.21 (d) and (j)
4. VOC	3.44 pph	Hourly	EUPRESS	SC V.1	R 336.1702(a)
5. VOC	12.4 tpy	12-month rolling time period as determined at the end of each calendar month	EUPRESS	SC VI.3	R 336.1702(a)
6. PM10	0.072 lb/TFP	12-month rolling time period	EUPRESS	SC V.2, SC VI.4, and FGFACILITY SC I.1, SC 1.2, SC VI.2	40 CFR 52.21 (c), (d), and (j)
7. PM10	2.0 pph	Hourly	EUPRESS	SC V.2	R 336.2803, R 336.2804
8. PM2.5	2.0 pph	Hourly	EUPRESS	SC V.2	R 336.2803, R 336.2804
9. Formaldehyde	5.91 pph ¹	Hourly	EUPRESS	SC V.1	R 336.1225

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Except as provided in SC V.3. the permittee shall maintain an hourly average minimum combustion chamber temperature of 800 degrees (RCO) or 1400 degrees (RTO) or not less than the last compliance test temperature that met the applicable VOC emission limitation in SC I.4 during operation of EUPRESS based on a one-hour average for the RCO or RTO that controls EUPRESS. **(R 336.1225, R 336.1702(a), R 336.1910)**
2. Visible emissions from EUPRESS during normal operation (excluding the bake out time period) shall not exceed a six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity. **(R 336.1301(1)(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not produce product in EUPRESS unless the RCO or RTO is operating properly. **(R 336.1910)**

V. TESTING/SAMPLING

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

1. The permittee shall verify NOx, CO, VOC, and Formaldehyde emission rates from EUPRESS by testing at owner's expense, in accordance with the Department requirements, once every five years from the last test. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
NOx	40 CFR Part 60, Appendix A
CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A
Formaldehyde	40 CFR Part 63, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1225, R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21(c), (d), and (j))**

2. Within 180 days after commencement of initial startup and every five years thereafter, the permittee shall verify PM10 and PM2.5 emission rates from EUPRESS by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the

test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

3. The permittee may lower the minimum operating temperature in the RCO or RTO below the last compliance test value that met the applicable VOC emission limitation if sufficient data is submitted to the Department that proves that VOC emissions can be maintained under the applicable emission limit at the lower temperature. The permittee may conduct trials at a temperature less than the most recent successful compliance test no more frequently than quarterly to obtain such data. (R 336.1225, R 336.1702(a), R 336.1910)

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 RCO and RTO combustion chamber temperature and the volumetric flow rate through the RCO and RTO on a continuous basis with instrumentation acceptable to the Air Quality Division, except if an alternate method(s) is approved by the District Supervisor, Air Quality Division. (R 336.1225, R 336.1702(a))
2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling NOx records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205(1)(a), 40 CFR 52.21(c), (d) and (j))
3. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling VOC records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205(1)(a), R 336.1225, R 336.1702(a))
4. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling PM10 records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205(1)(a), 40 CFR 52.21(c), (d) and (j))

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 EUPRESS. (R 336.1201(7)(a))

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVPRESS	76	100	R 336.1225, R 336.1702, 40 CFR 52.21(c) and (d), R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹This 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
FGBH1	A baghouse controlling particulate emissions from EUSCREENS, EUFORMING, EUSAWLINE, EUTGPATTERN, EUSANDER, EUHAMMERMILL1, and EUFUELBIN.	EUSCREENS EUFORMING EUSAWLINE EUTGPATTERN EUSANDER, EUHAMMERMILL1 EUFUELBIN
FGBH2	A baghouse controlling particulate emissions from EUFORMING.	EUFORMING
FGBH3	A baghouse controlling particulate emissions from EUPULVERIZNG1, EUPULVERIZNG2, EUHAMMERMILL1, EUFUELBIN and fuel fines material transfer.	EUPULVERIZNG1 EUPULVERIZNG2 EUHAMMERMILL1 EUFUELBIN
FGBH4	A baghouse controlling particulate emissions from EUSAWLINE.	EUSAWLINE
FGBH5	A baghouse controlling particulate emissions from EUOVERFINES, EUSAWLINE, EUPANELLINE, EULAPLANE1, EULAPLANE2, EUTGPATTERN, EUSANDER and fuel fines material transfer.	EUOVERFINES EUSAWLINE EUPANELLINE EULAPLANE1 EULAPLANE2 EUTGPATTERN EUSANDER
FGBH6	A baghouse controlling particulate emissions from EUPANELLINE, EULAPLANE1, and EULAPLANE2.	EUPANELLINE EULAPLANE1 EULAPLANE2
FGBH7	A baghouse controlling particulate emissions from EUPATTERN and EUSANDER.	EUTGPATTERN EUSANDER
FGBH8	A baghouse controlling particulate emissions from EUVSLINE and EUHOG.	EUVSLINE EUHOG
FGLAIDIG	A baghouse controlling particulate emissions from EUHAMMERMILL1 and EUFUELBIN.	EUHAMMERMILL1 EUFUELBIN
FGFINISHOVENS	Direct natural gas fired ovens on the Panel finishing line and Lap finishing lanes 1 and 2.	EUPANELOV EULAP1OV EULAP1XOV EULAP2OV EULAP2XOV
FGBLRS/HTRS	Two (2) natural gas-fired service water heaters and thirty-nine (39) natural gas-fired air make-up units and space heaters.	NA

FGBH1
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUSCREENS, FGBH2, FGBH4, FGBH7, and FGLAIDIG.

Emission Units: EUSCREENS, EUFORMING (FGBH2), EUSAWLINE (FGBH4), EUPATTERN and EUSANDER (FGBH7), and EUMAMMERMILL1, and EUFUELBIN (FGLAIDIG)

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.39 pph	Hourly	FGBH1	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH1	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH1, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH1 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH1 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH1 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH1	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGBH2
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUFORMING.

Emission Units: EUFORMING

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.36 pph	Hourly	FGBH2	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.36 pph	Hourly	FGBH2	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH2, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH2 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH2 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH2 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH2	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH3
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUPULVERIZING1, EUPULVERIZING2, FGLAIDIG, and fuel fines material transfer.

Emission Units: EUPULVERIZING1, EUPULVERIZING2, EUHAMMERMILL1 and EUFUELBIN (FGLAIDIG), and fuel fines material transfer.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.21 pph	Hourly	FGBH3	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.21 pph	Hourly	FGBH3	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH3, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

- a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
- b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
- c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH3 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH3 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH3 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH3	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGBH4
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUSAWLINE.

Emission Units: EUSAWLINE

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.39 pph	Hourly	FGBH4	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH4	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH4, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH4 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH4 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH4 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH4	48	80	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGBH5
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUOVERFINES, FGBH4, FGBH6, and FGBH7.

Emission Units: EUOVERFINES, EUFORMING (FGBH2), EUPANELLINE, EULAPLANE1, EULAPLANE2 (FGBH6), EUTGPATTERN and EUSANDER (FGBH7), and fuel fines material transfer.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.47 pph	Hourly	FGBH5	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.47 pph	Hourly	FGBH5	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH5, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH5 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH5 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH5 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH5	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGBH6
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUPANELLINE, EULAPLANE1, AND EULAPLANE2.

Emission Units: EUPANELLINE, EULAPLANE1, AND EULAPLANE2.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.51 pph	Hourly	FGBH6	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.51 pph	Hourly	FGBH6	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH6, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

- a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
- b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
- c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH6 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH6 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH6 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH6	48	80	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH7
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUTGPATTERN and EUSANDER.

Emission Units: EUTGPATTERN, EUSANDER

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.39 pph	Hourly	FGBH7	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH7	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH7, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH7 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH7 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH7 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH7	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH8
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUVSLINE and EUHOG.

Emission Units: EUVSLINE, EUHOG

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.47 pph	Hourly	FGBH8	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.47 pph	Hourly	FGBH8	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH8, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH8 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH8 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH8 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH8	48	60	R 336.1331 R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGLAIDIG
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUHAMMERMILL1 and EUFUELBIN.

Emission Units: EUHAMMERMILL1, EUFUELBIN

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.16 pph	Hourly	FGLAIDIG	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.16 pph	Hourly	FGLAIDIG	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGLAIDIG, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGLAIDIG unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGLAIDIG by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGLAIDIG daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVLAIDIG	8	52	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGFINISHOVENS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Five direct natural gas-fired drying ovens on the panel finishing line (EUPANELLINE) and lap finishing lanes 1 and 2 (EULAPLANE1 AND EULAPLANE 2).

Emission Unit: EUPANELOV, EULAP1OV, EULAP1XOV, EULAP2OV, and EULAP2XOV

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall only burn natural gas in each oven in FGFINISHOVENS. (R 336.1225, R 336.1702)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The total heat input capacity of the ovens in FGFINISHOVENS shall not exceed a maximum of 27.6 MM BTU per hour.¹ (R 336.1225)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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:¹

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
SVPANELOV1	14	40	R 336.1225
SVPANELOV2	14	40	R 336.1225
SVLAP1OV1	14	40	R 336.1225
SVLAP1OV2	14	40	R 336.1225

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
SVLAP1XOV1	14	40	R 336.1225
SVLAP1XOV2	14	40	R 336.1225
SVLAP2OV1	14	40	R 336.1225
SVLAP2OV2	14	40	R 336.1225
SVLAP2XOV1	14	40	R 336.1225
SVLAP2XOV2	14	40	R 336.1225

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

FGBLRS/HTRS FLEXIBLE GROUP CONDITIONS
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DESCRIPTION

Two (2) natural gas-fired service water heaters and thirty-nine (39) natural gas-fired air make-up units and space heaters.

Emission Unit: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall only burn natural gas in each combustion unit in FGBLRS/HTRS. (R 336.1225, R 336.1702)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The total heat input capacity of the combustion units in FGBLRS/HTRS shall not exceed a maximum of 92.2 MMBTU per hour.¹ (R 336.1225)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

NA

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).

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

RCO, RTO, and baghouse dust collectors

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Finished Product (OSB)	310,000 tons per year	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205, R 336.1225, R 336.1702(a), 40 CFR 52.21(j)
2. Finished Product (Siding)	250,000 tons per year	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205, R 336.1225, R 336.1702(a)

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 records of fugitive dust control activities and dates carried out per a AQD approved Fugitive Dust Control Plan. (R 336.1205, R 336.1371, R 336.1372)

2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling production records as required in SC I.1 and SC I.2. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(1)(a) and (3), 40 CFR 52.21(j))**
3. The permittee shall keep records of the Inspection and Maintenance Program specified in SC IX.2, including records of inspections done, problems found, repairs completed and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices. **(R 336.1201(3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. Permittee shall implement and maintain the Fugitive Dust Control Plan as specified in Appendix 3 to limit all fugitive dust emissions from the roadways, the material storage piles, stockpile areas, and other operations throughout the plant. **(R 336.1201, R 336.1371, 40 CFR 52.21)**
2. The permittee shall carry out an Inspection and Maintenance Program, including the keeping of a daily log or checklists, for all air cleaning devices to assure that the air cleaning devices are maintained and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control Rules and existing law. The permittee shall keep records of the Inspection and Maintenance Program including records of problems found, repairs done and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices. **(R 336.1301, R 336.1331, R 336.1910)**
3. The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart DDDD—National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products. **(40 CFR Part 63, Subpart DDDD)**

PERMIT TO INSTALL

Table of Contents

COMMON ACRONYMS 2

POLLUTANT / MEASUREMENT ABBREVIATIONS..... 3

GENERAL CONDITIONS 4

EMISSION UNIT SPECIAL CONDITIONS..... 6

 EMISSION UNIT SUMMARY TABLE 6

 EUPRESS..... 8

FLEXIBLE GROUP SPECIAL CONDITIONS..... 12

 FLEXIBLE GROUP SUMMARY TABLE 12

 FGBH1..... 13

 FGBH2..... 15

 FGBH3..... 17

 FGBH4..... 19

 FGBH5..... 21

 FGBH6..... 23

 FGBH7..... 25

 FGBH8..... 27

 FGFINISHOVENS..... 29

 FGBLRS/HTRS..... 31

FGFACILITY CONDITIONS..... 32

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 _{2e}	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
PM10	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	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 condition 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
EUPRESS	Press System (EUPRESS) including the mat forming line with a paper overlay system and the board press. The paper overlay system will unroll, measure, cut, and apply the paper to the formed mat prior to the board press. The board press will include embossing plates to provide the SmartSide® wood grain finish. Emissions from EUPRESS are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO). When operating as a RCO a layer of catalyst is placed in the combustion chamber, which allows the oxidation of VOC and HAPs to occur at lower temperatures. If the catalyst deactivates, the RCO can be converted to a RTO simply by increasing the temperature in the combustion chamber. Exposing the catalyst to high temperatures for prolonged periods of time deactivates the catalyst thus a RTO cannot be converted to a RCO unless the new layer of catalyst is placed in the combustion chamber.	1988 / 1996 / 2004 / 2008 / 2022	N/A
EUFORMING	Forming line system includes blenders, formers, fines blender, fines former, flying cut off saw, mat forming line controlled by baghouse dust collector BH2.	1988 / 1998 / 2022	FGBH2, FGBH1
EUSAWLINE	Sawline system includes first and second pass saws and controlled by baghouse dust collector BH4.	1988 / 1998 / 2022	FGBH4, FGBH1, FGBH5
EUPULVERIZING1	#1 Fuel fines pulverizing mill	2003	FGBH3
EUPULVERIZING2	#2 Fuel fines pulverizing mill	2003	FGBH3
EUSANDER	Sanding operations controlled by a baghouse dust collector BH7.	1988 / 1998	FGBH7, FGBH1, FGBH5
EUTGPATTERN	Tongue and Groove machine controlled by a baghouse dust collector BH7.	1988 / 1998	FGBH7, FGBH1, FGBH5
EUHAMMERMILL1	Primary fuel fines hammermill.	1988 / 1998	FGBH7, FGBH1, FGBH5
EUFUELBIN	Fuel fines bin.	1988 / 2003	FGBH1, FGBH3
EUPANELLINE	Board (panel) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5
EUPANELOV	Direct heated natural gas-fired oven on the Panel finishing line, total heat input 5.0 million Btu/hr.	2022	FGFINISHOVENS
EULAPLANE1	Board (lap) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EULAP1OV	Direct heated natural gas-fired oven on the Lap finishing lane 1, total heat input 5.0 million Btu/hr	2022	FGFINISHOVENS
EULAP1XOV	Direct heated natural gas-fired oven on the Lap finishing lane 1, total heat input 6.3 million Btu/hr.	2022	FGFINISHOVENS
EULAPLANE2	Board (lap) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5
EULAP2OV	Direct heated natural gas-fired oven on the Lap finishing lane 2, total heat input 5.0 million Btu/hr.	2022	FGFINISHOVENS
EULAP2XOV	Direct heated natural gas-fired oven on the Lap finishing lane 2, total heat input 6.3 million Btu/hr.	2022	FGFINISHOVENS
EUVSLINE	Board (vented soffit) sawing, trimming, sanding, and finishing controlled by baghouse dust collector BH8.	2022	FGBH8, FGBH5
EUPRIMER	Non-VOC/HAP primer application on Panel, Lap, and VS lines by high-pressure spray or fan coater.	2022	N/A
EUHOG	Downgrade hog and room aspirations controlled by baghouse dust collector BH8.	2022	FGBH8, FGBH5
EUOVERFINES	Overlay fines hammermill, storage bin, and metering bin controlled by baghouse dust collector BH5.	2022	FGBH5
EUSCREENS	Aspiration from rotary screeners, conveyors, and dry bins controlled by baghouse dust collector BH1.	2022	FGBH1

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.

**EUPRESS
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Press System (EUPRESS) including the mat forming line with a paper overlay system and the board press. The paper overlay system will unroll, measure, cut, and apply the paper to the formed mat prior to the board press. The board press will include embossing plates to provide the SmartSide® wood grain finish. Emissions from EUPRESS are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO). When operating as a RCO a layer of catalyst is placed in the combustion chamber, which allows the oxidation of VOC and HAPs to occur at lower temperatures. If the catalyst deactivates, the RCO can be converted to a RTO simply by increasing the temperature in the combustion chamber. Exposing the catalyst to high temperatures for prolonged periods of time deactivates the catalyst thus an RTO cannot be converted to a RCO unless the new layer of catalyst is placed in the combustion chamber.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

RCO or RTO

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	43.0 pph	Hourly	EUPRESS	SC V.1	40 CFR 52.21 (c), (d), and (j)
2. NOx	155.0 tpy	12-month rolling time period as determined at the end of each calendar month	EUPRESS	SC VI.2	40 CFR 52.21 (c), (d), and (j)
3. CO	0.51 lb/TFP	12-month rolling time period as determined at the end of each calendar month	EUPRESS	SC V.1, and FG FACILITY SC I.1, SC 1.2, SC VI.2	40 CFR 52.21 (d) and (j)
4. VOC	3.44 pph	Hourly	EUPRESS	SC V.1	R 336.1702(a)
5. VOC	12.4 tpy	12-month rolling time period as determined at the end of each calendar month	EUPRESS	SC VI.3	R 336.1702(a)
6. PM10	0.072 lb/TFP	12-month rolling time period	EUPRESS	SC V.2, SC VI.4, and FG FACILITY SC I.1, SC 1.2, SC VI.2	40 CFR 52.21 (c), (d), and (j)
7. PM10	2.0 pph	Hourly	EUPRESS	SC V.2	R 336.2803, R 336.2804
8. PM2.5	2.0 pph	Hourly	EUPRESS	SC V.2	R 336.2803, R 336.2804
9. Formaldehyde	5.91 pph ¹	Hourly	EUPRESS	SC V.1	R 336.1225

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Except as provided in SC V.3. the permittee shall maintain an hourly average minimum combustion chamber temperature of 800 degrees (RCO) or 1400 degrees (RTO) or not less than the last compliance test temperature that met the applicable VOC emission limitation in SC I.4 during operation of EUPRESS based on a one-hour average for the RCO or RTO that controls EUPRESS. **(R 336.1225, R 336.1702(a), R 336.1910)**
2. Visible emissions from EUPRESS during normal operation (excluding the bake out time period) shall not exceed a six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity. **(R 336.1301(1)(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not produce product in EUPRESS unless the RCO or RTO is operating properly. **(R 336.1910)**

V. TESTING/SAMPLING

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

1. The permittee shall verify NOx, CO, VOC, and Formaldehyde emission rates from EUPRESS by testing at owner's expense, in accordance with the Department requirements, once every five years from the last test. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
NOx	40 CFR Part 60, Appendix A
CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A
Formaldehyde	40 CFR Part 63, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1225, R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21(c), (d), and (j))**

2. Within 180 days after commencement of initial startup and every five years thereafter, the permittee shall verify PM10 and PM2.5 emission rates from EUPRESS by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the

test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

- The permittee may lower the minimum operating temperature in the RCO or RTO below the last compliance test value that met the applicable VOC emission limitation if sufficient data is submitted to the Department that proves that VOC emissions can be maintained under the applicable emission limit at the lower temperature. The permittee may conduct trials at a temperature less than the most recent successful compliance test no more frequently than quarterly to obtain such data. **(R 336.1225, R 336.1702(a), R 336.1910)**

VI. MONITORING/RECORDKEEPING

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

- The permittee shall monitor and record the RCO and RTO combustion chamber temperature and the volumetric flow rate through the RCO and RTO on a continuous basis with instrumentation acceptable to the Air Quality Division, except if an alternate method(s) is approved by the District Supervisor, Air Quality Division. **(R 336.1225, R 336.1702(a))**
- The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling NOx records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(1)(a), 40 CFR 52.21(c), (d) and (j))**
- The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling VOC records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(1)(a), R 336.1225, R 336.1702(a))**
- The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling PM10 records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(1)(a), 40 CFR 52.21(c), (d) and (j))**

VII. REPORTING

- 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 EUPRESS. **(R 336.1201(7)(a))**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVPRESS	76	100	R 336.1225, R 336.1702, 40 CFR 52.21(c) and (d), R 336.2803, R 336.2804

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
FGBH1	A baghouse controlling particulate emissions from EUSCREENS, EUFORMING, EUSAWLINE, EUTGPATTERN, EUSANDER, EUHAMMERMILL1, and EUFUELBIN.	EUSCREENS EUFORMING EUSAWLINE EUTGPATTERN EUSANDER EUHAMMERMILL1 EUFUELBIN
FGBH2	A baghouse controlling particulate emissions from EUFORMING.	EUFORMING
FGBH3	A baghouse controlling particulate emissions from EUPULVERIZNG1, EUPULVERIZNG2, EUHAMMERMILL1, EUFUELBIN and fuel fines material transfer.	EUPULVERIZNG1 EUPULVERIZNG2 EUHAMMERMILL1 EUFUELBIN
FGBH4	A baghouse controlling particulate emissions from EUSAWLINE.	EUSAWLINE
FGBH5	A baghouse controlling particulate emissions from EUOVERFINES, EUSAWLINE, EUPANELLINE, EULAPLANE1, EULAPLANE2, EUTGPATTERN, EUSANDER and fuel fines material transfer.	EUOVERFINES EUSAWLINE EUPANELLINE EULAPLANE1 EULAPLANE2 EUTGPATTERN EUSANDER
FGBH6	A baghouse controlling particulate emissions from EUPANELLINE, EULAPLANE1, and EULAPLANE2.	EUPANELLINE EULAPLANE EULAPLANE2
FGBH7	A baghouse controlling particulate emissions from EUPATTERN and EUSANDER.	EUTGPATTERN EUSANDER
FGBH8	A baghouse controlling particulate emissions from EUVSLINE and EUHOG.	EUVSLINE EUHOG
FGFINISHOVENS	Direct natural gas fired ovens on the Panel finishing line and Lap finishing lanes 1 and 2.	EUPANELOV EULAP1OV EULAP1XOV EULAP2OV EULAP2XOV
FGBLRS/HTRS	Two (2) natural gas-fired service water heaters and thirty-nine (39) natural gas-fired air make-up units and space heaters.	NA

**FGBH1
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUSCREENS, FGBH2, FGBH4, and FGBH7.

Emission Units: EUSCREENS, EUFORMING (FGBH2), EUSAWLINE (FGBH4), EUPATTERN and EUSANDER (FGBH7), and EUHAMMERMILL1, and EUFUELBIN

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.39 pph	Hourly	FGBH1	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH1	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH1, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH1 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH1 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH1 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH1	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH2 FLEXIBLE GROUP CONDITIONS
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DESCRIPTION

A baghouse controlling particulate emissions from EUFORMING.

Emission Units: EUFORMING

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.36 pph	Hourly	FGBH2	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.36 pph	Hourly	FGBH2	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH2, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH2 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH2 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH2 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH2	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH3
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUPULVERIZING1, EUPULVERIZING2, and fuel fines material transfer.

Emission Units: EUPULVERIZING1, EUPULVERIZING2, EUHAMMERMILL1 and EUFUELBIN, and fuel fines material transfer.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.21 pph	Hourly	FGBH3	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.21 pph	Hourly	FGBH3	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH3, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH3 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH3 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH3 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH3	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH4 FLEXIBLE GROUP CONDITIONS
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DESCRIPTION

A baghouse controlling particulate emissions from EUSAWLINE.

Emission Units: EUSAWLINE

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.39 pph	Hourly	FGBH4	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH4	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH4, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH4 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH4 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH4 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH4	48	80	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGBH5
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUOVERFINES, FGBH4, FGBH6, and FGBH7.

Emission Units: EUOVERFINES, EUFORMING (FGBH2), EUPANELLINE, EULAPLANE1, EULAPLANE2 (FGBH6), EUTGPATTERN and EUSANDER (FGBH7), and fuel fines material transfer.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.47 pph	Hourly	FGBH5	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.47 pph	Hourly	FGBH5	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH5, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH5 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH5 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH5 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH5	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH6
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUPANELLINE, EULAPLANE1, AND EULAPLANE2.

Emission Units: EUPANELLINE, EULAPLANE1, AND EULAPLANE2.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.51 pph	Hourly	FGBH6	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.51 pph	Hourly	FGBH6	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH6, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH6 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH6 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH6 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH6	48	80	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH7
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUTGPATTERN and EUSANDER.

Emission Units: EUTGPATTERN, EUSANDER

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.39 pph	Hourly	FGBH7	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH7	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH7, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH7 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH7 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH7 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH7	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

FGBH8
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUVSLINE and EUHOG.

Emission Units: EUVSLINE, EUHOG

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.47 pph	Hourly	FGBH8	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.47 pph	Hourly	FGBH8	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH8, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. **(R 336.1910, R 336.1911)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH8 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. **(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))**

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH8 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH8 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. **(R 336.1301)**
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. **(R 336.1331)**

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
14. SVBH8	48	60	R 336.1331 R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGFINISHOVENS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Five direct natural gas-fired drying ovens on the panel finishing line (EUPANELLINE) and lap finishing lanes 1 and 2 (EULAPLANE1 AND EULAPLANE 2).

Emission Unit: EUPANELOV, EULAP1OV, EULAP1XOV, EULAP2OV, and EULAP2XOV

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall only burn natural gas in each oven in FGFINISHOVENS. **(R 336.1225, R 336.1702)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The total heat input capacity of the ovens in FGFINISHOVENS shall not exceed a maximum of 27.6 MM BTU per hour.¹ **(R 336.1225)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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:¹

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
SVPANELOV1	14	40	R 336.1225
SVPANELOV2	14	40	R 336.1225
SVLAP1OV1	14	40	R 336.1225
SVLAP1OV2	14	40	R 336.1225

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
SVLAP1XOV1	14	40	R 336.1225
SVLAP1XOV2	14	40	R 336.1225
SVLAP2OV1	14	40	R 336.1225
SVLAP2OV2	14	40	R 336.1225
SVLAP2XOV1	14	40	R 336.1225
SVLAP2XOV2	14	40	R 336.1225

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

FGBLRS/HTRS FLEXIBLE GROUP CONDITIONS
--

DESCRIPTION

Two (2) natural gas-fired service water heaters and thirty-nine (39) natural gas-fired air make-up units and space heaters.

Emission Unit: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall only burn natural gas in each combustion unit in FGBLRS/HTRS. **(R 336.1225, R 336.1702)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The total heat input capacity of the combustion units in FGBLRS/HTRS shall not exceed a maximum of 92.2 MMBTU per hour.¹ **(R 336.1225)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

NA

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).

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

RCO, RTO, and baghouse dust collectors

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. Finished Product (OSB)	310,000 tons per year	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205, R 336.1225, R 336.1702(a), 40 CFR 52.21(j)
2. Finished Product (Siding)	250,000 tons per year	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.2	R 336.1205, R 336.1225, R 336.1702(a)

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 records of fugitive dust control activities and dates carried out per a AQD approved Fugitive Dust Control Plan. (R 336.1205, R 336.1371, R 336.1372)

2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling production records as required in SC I.1 and SC I.2. All records shall be kept on file for a period of at least five years and made available to the Department upon request. **(R 336.1205(1)(a) and (3), 40 CFR 52.21(j))**
3. The permittee shall keep records of the Inspection and Maintenance Program specified in SC IX.2, including records of inspections done, problems found, repairs completed and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices. **(R 336.1201(3))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. Permittee shall implement and maintain the Fugitive Dust Control Plan as specified in Appendix 3 to limit all fugitive dust emissions from the roadways, the material storage piles, stockpile areas, and other operations throughout the plant. **(R 336.1201, R 336.1371, 40 CFR 52.21)**
2. The permittee shall carry out an Inspection and Maintenance Program, including the keeping of a daily log or checklists, for all air cleaning devices to assure that the air cleaning devices are maintained and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control Rules and existing law. The permittee shall keep records of the Inspection and Maintenance Program including records of problems found, repairs done and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices. **(R 336.1301, R 336.1331, R 336.1910)**
3. The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart DDDD—National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products. **(40 CFR Part 63, Subpart DDDD)**

Attachment 3

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

EFFECTIVE DATE: December 21, 2018

ISSUED TO

Louisiana-Pacific Corporation, Sagola Plant

State Registration Number (SRN): N1315

LOCATED AT

N8504 Highway M-95, Sagola, Dickinson County, Michigan 49881

Style Definition: TOC 2

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-N1315-2018

Expiration Date: December 21, 2023

Administratively Complete ROP Renewal Application Due Between
June 21, 2022 and June 21, 2023

This Renewable Operating Permit (ROP) is issued in accordance with and subject to Section 5506(3) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Pursuant to Michigan Air Pollution Control Rule 210(1), this ROP constitutes the permittee's authority to operate the stationary source identified above in accordance with the general conditions, special conditions and attachments contained herein. Operation of the stationary source and all emission units listed in the permit are subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-N1315-2018

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(5) of Act 451. Pursuant to Michigan Air Pollution Control Rule 214a, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environmental Quality

Ed Lancaster, Upper Peninsula District Supervisor

(Rev. 08-22-17)

TABLE OF CONTENTS

AUTHORITY AND ENFORCEABILITY 5

A. GENERAL CONDITIONS..... 6

Permit Enforceability 6

General Provisions..... 6

Equipment & Design 7

Emission Limits 7

Testing/Sampling 7

Monitoring/Recordkeeping 8

Certification & Reporting 8

Permit Shield 9

Revisions 11

Reopenings..... 11

Renewals 13

Stratospheric Ozone Protection 13

Risk Management Plan..... 13

Emission Trading 13

Permit to Install (PTI) 14

B. SOURCE-WIDE CONDITIONS 15

C. EMISSION UNIT CONDITIONS 19

EMISSION UNIT SUMMARY TABLE 19

EUTOH-WOOD 22

EUTOH-NG..... 25

EUPRESS..... 28

EUFORMING..... 32

D. FLEXIBLE GROUP CONDITIONS 35

FLEXIBLE GROUP SUMMARY TABLE 35

FGDRYERS 37

FGBH1..... 56

FGBH2..... 59

FGBH3..... 62

FGBH4..... 65

FGBH5..... 68

FGBH6..... 71

FGBH7..... 74

FGBH8..... 77

FGFINISHOVENS..... 80

FGBLRS/HTRS..... 82

FGCIRICEMACT..... 84

FGSIRICEMACT..... 88

FGBOILERMACT..... 91

E. NON-APPLICABLE REQUIREMENTS 108

APPENDICES 109

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

Appendix 1. Acronyms and Abbreviations	70
Appendix 2. Schedule of Compliance	71
Appendix 3. Monitoring Requirements	71
Appendix 4. Recordkeeping	71
Appendix 5. Testing Procedures	71
Appendix 6. Permits to Install	71
Appendix 7. Emission Calculations	72
Appendix 8. Reporting	73

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ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

AUTHORITY AND ENFORCEABILITY

For the purpose of this permit, the **permittee** is defined as any person who owns or operates an emission unit at a stationary source for which this permit has been issued. The **department** is defined in Rule 104(d) as the Director of the Michigan Department of Environmental Quality (MDEQ) or his or her designee.

The permittee shall comply with all specific details in the permit terms and conditions and the cited underlying applicable requirements. All terms and conditions in this ROP are both federally enforceable and state enforceable unless otherwise footnoted. Certain terms and conditions are applicable to most stationary sources for which an ROP has been issued. These general conditions are included in Part A of this ROP. Other terms and conditions may apply to a specific emission unit, several emission units which are represented as a flexible group, or the entire stationary source which is represented as a Source-Wide group. Special conditions are identified in Parts B, C, D and/or the appendices.

In accordance with Rule 213(2)(a), all underlying applicable requirements are identified for each ROP term or condition. All terms and conditions that are included in a PTI are streamlined, subsumed and/or is state-only enforceable will be noted as such.

In accordance with Section 5507 of Act 451, the permittee has included in the ROP application a compliance certification, a schedule of compliance, and a compliance plan. For applicable requirements with which the source is in compliance, the source will continue to comply with these requirements. For applicable requirements with which the source is not in compliance, the source will comply with the detailed schedule of compliance requirements that are incorporated as an appendix in this ROP. Furthermore, for any applicable requirements effective after the date of issuance of this ROP, the stationary source will meet the requirements on a timely basis, unless the underlying applicable requirement requires a more detailed schedule of compliance.

Issuance of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**
- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R 336.1214a(5))**
- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

1. The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. **(R 336.1213(1)(a))**
2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. **(R 336.1213(1)(b))**
3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. **(R 336.1213(1)(c))**
4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: **(R 336.1213(1)(d))**
 - a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
 - c. Inspect, at reasonable times, any of the following:
 - i. Any stationary source.
 - ii. Any emission unit.
 - iii. Any equipment, including monitoring and air pollution control equipment.
 - iv. Any work practices or operations regulated or required under the ROP.
 - d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.
5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. **(R 336.1213(1)(e))**

6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. **(R 336.1213(1)(f))**
7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**
8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

9. Any 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).² **(R 336.1370)**
10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

11. Unless otherwise specified in this ROP, the permittee shall comply with Rule 301, which states, in part, "Except as provided in subrules 2, 3, and 4 of this rule, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of the following:"² **(R 336.1301(1))**
 - a. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
 - b. A limit specified by an applicable federal new source performance standard.

The grading of visible emissions shall be determined in accordance with Rule 303.

12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
 - a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.¹ **(R 336.1901(a))**
 - b. Unreasonable interference with the comfortable enjoyment of life and property.¹ **(R 336.1901(b))**

Testing/Sampling

13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1).² **(R 336.2001)**
14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**
15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(5))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

Monitoring/Recordkeeping

16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate. **(R 336.1213(3)(b))**
- The date, location, time, and method of sampling or measurements.
 - The dates the analyses of the samples were performed.
 - The company or entity that performed the analyses of the samples.
 - The analytical techniques or methods used.
 - The results of the analyses.
 - The related process operating conditions or parameters that existed at the time of sampling or measurement.
17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. **(R 336.1213(1)(e), R 336.1213(3)(b)(ii))**

Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**
19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The USEPA address is: USEPA, Air Compliance Data - Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. **(R 336.1213(4)(c))**
20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. **(R 336.1213(4)(c))**
21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. **(R 336.1213(3)(c))**
- For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
 - For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
 - For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
 - a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
 - b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that; "based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete." The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.
23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**
24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**
25. 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 appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor 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 conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.² **(R 336.1912)**

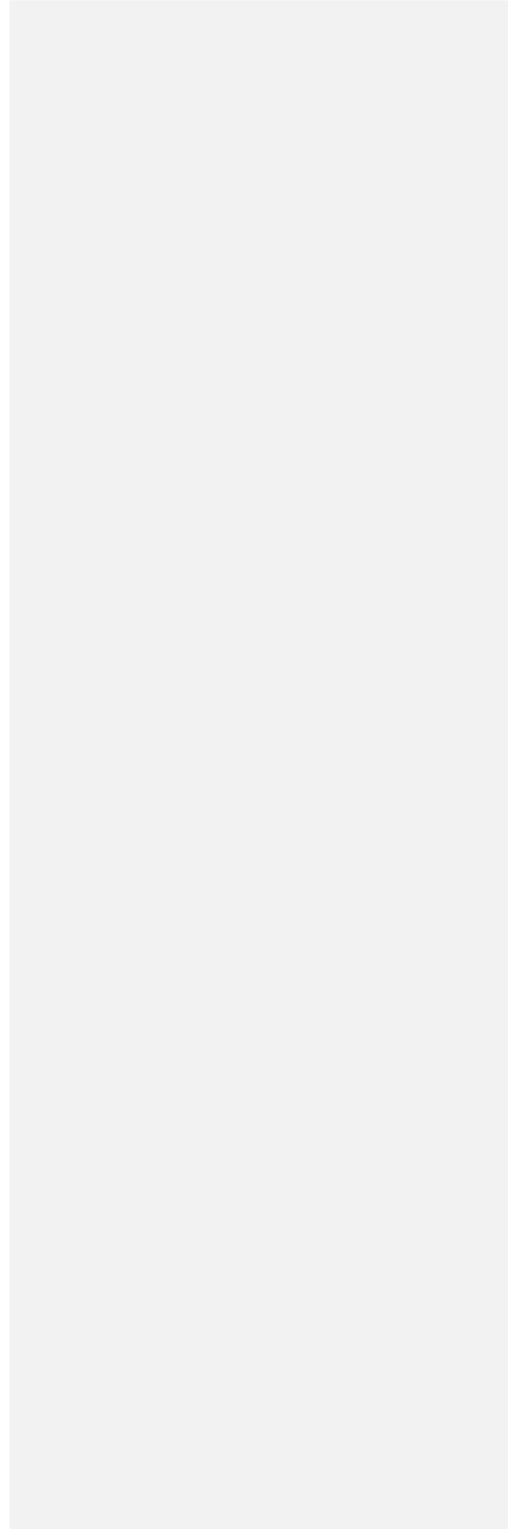
Permit Shield

26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance, if either of the following provisions is satisfied. **(R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))**
 - a. The applicable requirements are included and are specifically identified in the ROP.
 - b. The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.

Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.

27. Nothing in this ROP shall alter or affect any of the following:
 - a. The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. **(R 336.1213(6)(b)(i))**
 - b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. **(R 336.1213(6)(b)(ii))**
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018



ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

- d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**
28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
- a. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
 - b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
 - c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. **(R 336.1216(1)(c)(iii))**
 - d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
 - e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**
29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. **(R 336.1217(1)(c), R 336.1217(1)(a))**

Revisions

30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. **(R 336.1215, R 336.1216)**
31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). **(R 336.1219(2))**
32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(10))**
33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions that the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. **(R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))**

Reopenings

34. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
- a. If additional requirements become applicable to this stationary source with three or more years remaining in the term of the ROP, but not if the effective date of the new applicable requirement is later than the ROP expiration date. **(R 336.1217(2)(a)(i))**
 - b. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
 - c. If the department determines that the ROP contains a material mistake, information required by any applicable requirement was omitted, or inaccurate statements were made in establishing emission limits or the terms or conditions of the ROP. **(R 336.1217(2)(a)(iii))**
 - d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(9))**

Stratospheric Ozone Protection

36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F.
37. If the permittee is subject to 40 CFR Part 82, and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).
39. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates as provided in 40 CFR 68.10(a):
- June 21, 1999,
 - Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
 - The date on which a regulated substance is first present above a threshold quantity in a process.
40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.
41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c). **(40 CFR Part 68)**

Emission Trading

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of Michigan's State Implementation Plan. Such activities must comply with Rule 215 and Rule 216. **(R 336.1213(12))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

Permit to Install (PTI)

- 43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule.² **(R 336.1201(1))**
- 44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.² **(R 336.1201(8), Section 5510 of Act 451)**
- 45. The terms and conditions of a PTI 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 the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI 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. The written request shall be sent to the appropriate AQD District Supervisor, MDEQ.² **(R 336.1219)**
- 46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, MDEQ, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.² **(R 336.1201(4))**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

B. SOURCE-WIDE CONDITIONS

Part B outlines the Source-Wide Terms and Conditions that apply to this stationary source. The permittee is subject to these special conditions for the stationary source in addition to the general conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply to this source, NA (not applicable) has been used in the table. If there are no Source-Wide Conditions, this section will be left blank.

SOURCE-WIDE CONDITIONS

DESCRIPTION

The following conditions apply to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment. All process equipment at the facility including equipment covered by other permits, grand-fathered equipment and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NANA

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I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Finished Product (OSB)	310,000 tons ² per year	12 month rolling time period as determined at the end of each calendar month	Facility Wide	SC VI. 2	R 336.1205 R 336.1225 R 336.1702(a) 40 CFR 52.21(c), (d) and (j)
2. Finished Product (Siding)	250,000 tons per year	12 month rolling time period as determined at the end of each calendar month	Facility Wide	SC VI	R336.1205, R3361225, R3361702(a)

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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 336.1213(3)(b)(ii))

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee shall keep records of fugitive dust control activities and dates carried out per a DEQ approved Fugitive Dust Control Plan. (R 336.1205, R 336.1371, R 336.1372)

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling production records. All records shall be kept on file for a period of at least five years and made available to the Department upon request.² **(R 336.1205 (1)(a) and (3), 40 CFR 52.21(c), (d) and (j))**
3. The permittee shall keep records of the Inspection and Maintenance Program specified under IX.1, including records of inspections done, problems found, repairs completed and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices.² **(R 336.1201(3))**

See Appendices 3, 4, and 7

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

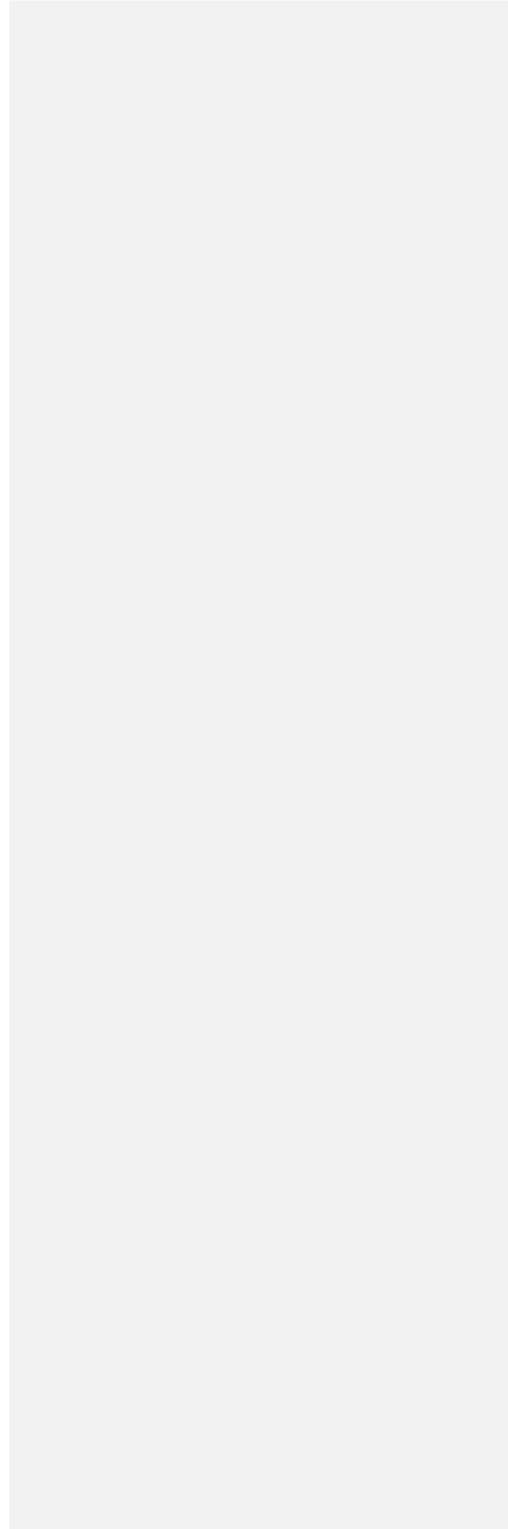
1. Permittee shall implement and maintain the Fugitive Dust Control Plan as specified in Appendix 3 to limit all fugitive dust emissions from the roadways, the material storage piles, stock pile areas, and other operations throughout the plant. **(R 336.1201, R 336.1371, 40 CFR 52.21)**
2. The permittee shall carry out an Inspection and Maintenance Program, including the keeping of a daily log or checklists, for all air cleaning devices to assure that the air cleaning devices are maintained and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control Rules and existing law. The permittee shall keep records of the Inspection and Maintenance Program including records of problems found, repairs done and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices.² **(R 336.1301, R 336.1331, R 336.1910, 40 CFR Part 64.6(c) & 64.7(b))**
3. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**
4. The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart DDDD—National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products. **(40 CFR Part 63, Subpart DDDD)**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018



ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

C. EMISSION UNIT CONDITIONS

Part C outlines terms and conditions that are specific to individual emission units listed in the Emission Unit Summary Table. The permittee is subject to the special conditions for each emission unit in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no conditions specific to individual emission units, this section will be left blank.

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
EUTOH-WOOD	60 million BTU per hour heat input Geka Thermal Oil Heater, fired with wood & bark, controlled by the electrostatic precipitator.	1988 / 1996	FGBOILERMACT
EUTOH-NG	One Geka thermal oil heater to burn natural gas, rated at a maximum heat input of 24 million BTU per hour.	1988	FGBOILERMACT
EUFLAKE1	50 million BTU per hour direct heat input wood-fired or natural gas-fired, single-pass wood flake dryer (Surface/Core Dryer) controlled by a wet ESP.	1988 / 1996 / 2004	FGDRYERS
EUFLAKE2	50 million BTU per hour direct heat input wood-fired or natural gas-fired single-pass wood flake dryer (Core Dryer) controlled by a wet ESP.	1988 / 1996 / 2004	FGDRYERS
EUFLAKE3	50 million BTU per hour direct heat input wood-fired or natural gas-fired single-pass wood flake dryer (Surface Dryer) controlled by a wet ESP.	1988 / 1996 / 2004	FGDRYERS

ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUPRESS	<u>Press System (EUPRESS) including the mat forming line with a paper overlay system and the board press. The paper overlay system will unroll, measure, cut, and apply the paper to the formed mat prior to the board press. The board press will include embossing plates to provide the SmartSide® wood grain finish. Emissions from EUPRESS are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO). When operating as a RCO a layer of catalyst is placed in the combustion chamber, which allows the oxidation of VOC and HAPs to occur at lower temperatures. If the catalyst deactivates, the RCO can be converted to a RTO simply by increasing the temperature in the combustion chamber. Exposing the catalyst to high temperatures for prolonged periods of time deactivates the catalyst thus a RTO cannot be converted to a RCO unless the new layer of catalyst is placed in the combustion chamber.</u> Press System including the board press and press unloader controlled by either a RCO or RTO.	1988 / 1996 / 2004 / 2008 / <u>2022</u>	NA
EUFORMING	<u>Forming line system includes blenders, formers, fines blender, fines former, flying cut off saw, mat forming line controlled by baghouse dust collector BH2.</u> The forming line system includes the blenders, formers, flying cutoff saw, and mat forming line controlled by a baghouse dust collector.	1988 / 1998 / <u>2022</u>	<u>FGBH2, FGBH1NA</u>
EUSAWLINE	<u>Sawline system includes first and second pass saws and controlled by baghouse dust collector BH4.</u> The sawline system includes sawline cleanup points and the trim, crosscut, and rip saws.	1988 / 1998 / <u>2022</u>	<u>FGBH4, FGBH1, FGBH5FGSANDER1, FGMAIN1, FGMAIN3, FGLAIDIG</u>
<u>EUPULVERIZING1</u> <u>EUFINISHING1</u>	<u>#1 Fuel fines pulverizing mill#1-Finishing (Pulverizing) mill</u>	2003	<u>FGBH3FGMAIN3</u>
<u>EUPULVERIZING2</u> <u>EUFINISHING2</u>	<u>#2 Fuel fines pulverizing mill#2-Finishing (Pulverizing) mill</u>	2003	<u>FGBH3FGMAIN3</u>
EUSANDER	<u>Sanding operations controlled by a baghouse dust collector BH7Sander.</u>	1988 / 1998	<u>FGBH7, FGBH1, FGBH5FGSANDER1, FGSANDER2, FGMAIN1, FGMAIN3, FGLAIDIG</u>
EUTGPATTERN	<u>Tongue and Groove Machine controlled by a baghouse dust collector BH7.</u>	1988 / 1998	<u>FGBH7, FGBH1, FGBH5FGSANDER1, FGSANDER2, FGMAIN1, FGMAIN3, FGLAIDIG</u>

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ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUHAMMERMILL1	Primary fuel fines hammermill, Primary hammer mill	1988 / 1998	FGBH7, FGBH1, FGBH5FGMAIN3, FGLAIDIG
EUFUELBIN	Fuel fines bin, Laidig fuel bin	1988 / 2003	FGBH1, FGBH3FGMAIN3, FGLAIDIG
EUFIREPUMP	Diesel fired emergency fire protection system water pump	1987	FGCIRICEMACT
EUPANELLINE	Board (panel) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5 ←
EUPANELOV	Direct heated natural gas-fired oven on the Panel finishing line, total heat input 5.0 million Btu/hr.	2022	FGFINISHOVENS
EULAPLANE1	Board (lap) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5
EULAP1OV	Direct heated natural gas-fired oven on the Lap finishing lane 1, total heat input 5.0 million Btu/hr.	2022	FGFINISHOVENS
EULAP1XOV	Direct heated natural gas-fired oven on the Lap finishing lane 1, total heat input 6.3 million Btu/hr.	2022	FGFINISHOVENS
EULAPLANE2	Board (lap) sawing, trimming, scoring, sanding, and finishing controlled by baghouse dust collector BH6.	2022	FGBH6, FGBH5
EULAP2OV	Direct heated natural gas-fired oven on the Lap finishing lane 2, total heat input 5.0 million Btu/hr.	2022	FGFINISHOVENS
EULAP2XOV	Direct heated natural gas-fired oven on the Lap finishing lane 2, total heat input 6.3 million Btu/hr.	2022	FGFINISHOVENS
EUVSLINE	Board (vented soffit) sawing, trimming, sanding, and finishing controlled by baghouse dust collector BH8.	2022	FGBH8, FGBH5
EUPRIMER	Non-VOC/HAP primer application on Panel, Lap, and VS lines by high-pressure spray or fan coater.	2022	N/A
EUHOG	Downgrade hog and room aspirations controlled by baghouse dust collector BH8.	2022	FGBH8, FGBH5
EUOVERFINES	Overlay fines hammermill, storage bin, and metering bin controlled by baghouse dust collector BH5.	2022	FGBH5
EUSCREENS	Aspiration from rotary screeners, conveyors, and dry bins controlled by baghouse dust collector BH1.	2022	FGBH1
EUTODIESEL	Emergency diesel fuel fired thermal oil pump	1991	FGCIRICEMACT
EUDRYER1BACK UP	LP gas fired emergency drive	2004	FGSIRICEMACT
EUDRYER2BACK UP	LP gas fired emergency drive	2004	FGSIRICEMACT
EUDRYER3BACK UP	LP gas fired emergency drive	2004	FGSIRICEMACT

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**EUTOH-WOOD
 EMISSION UNIT CONDITIONS**

DESCRIPTION

60 million BTU per hour heat input Geka Thermal Oil Heater, fired with wood and bark

Flexible Group ID: FGBOILERMACT

POLLUTION CONTROL EQUIPMENT

- Multiclone
- Dry Electrostatic Precipitator (ESP)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	11.55 pph ²	Hourly	EUTOH-WOOD	SC VI. 1	R 336.1331 40 CFR 52.21 (d) and (j)
2. PM-10	11.55 pph ²	Hourly	EUTOH-WOOD	SC V.1	40 CFR 52.21 (c), (d) and (j)
3. NOx	16.8 pph ²	Hourly	EUTOH-WOOD	SC V.1	40 CFR 52.21 (c), (d) and (j)
4. CO	28.6 pph ²	Hourly	EUTOH-WOOD	SC V.1	40 CFR 52.21 (d) and (j)
5. VOC	0.50 pph ²	Hourly	EUTOH-WOOD	SC V.1	R 336.1702(a) 40 CFR 52.21 (d) and (j)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Dry Fuel	30,660 tons ²	12 month rolling time period as determined at the end of each calendar month	EUTOH-WOOD	SC VI.2	R 336.1205 R 336.1225 R 336.1702 40 CFR 52.21(c) & (d))

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall burn only wood & bark in EUTOH-WOOD.² (R 336.1205(3))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EUTOH-WOOD, when fired with wood/bark, unless the Multiclone and Dry Electrostatic Precipitator are operating properly.² (R 336.1301, R 336.1331, R 336.1910)

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. The permittee shall verify NOx and VOC emission rates from EUTOH-WOOD by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M
CO	40 CFR Part 60, Appendix A
NOx	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

2. The permittee shall verify the NOx and VOC emission rates from EUTOH-WOOD at a minimum, every three years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (R 336.1213(3))

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. The permittee shall conduct Visible Emission (VE) readings of the Dry ESP dust collectors daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the ESP. Readings do not need to be conducted by a certified VE reader² (R 336.1301)
2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling fuel usage records, in tons dry fuel, for EUTOH-WOOD. All records shall be kept on file for a period of at least five years and made available to the Department upon request.² (R 336.1205(1)(a) and (3), R 336.1225, R 336.1331, R 336.1702(a), 40 CFR 52.21 (c), (d))

See Appendices 3, 4, and 7

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

See Appendix 8

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVTOHBNG	47 ²	100 ²	R 336.1331 R 336.1702(a) 40 CFR 52.21(c) and (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EUTOH-NG
 EMISSION UNIT CONDITIONS**

DESCRIPTION

A 24 million BTU per hour heat input Geka Thermal Oil Heater, fired with natural gas.

Flexible Group ID: FGBOILERMACT

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.17 pph ²	Hourly	EUTOH-NG	SC V.1	R 336.1331
2. PM-10	0.17 pph ²	Hourly	EUTOH-NG	SC V.1	40 CFR 52.21 (c), (d) and (j)
3. NOx	2.83 pph ²	Hourly	EUTOH-NG	SC V.1	40 CFR 52.21 (c), (d) and (j)
4. CO	1.98 pph ²	Hourly	EUTOH-NG	SC V.1	40 CFR 52.21 (d) and (j)
5. VOC	0.129 pph ²	Hourly	EUTOH-NG	SC V.1	R 336.1702(a)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall burn only natural gas in the EUTOH-NG. ² (R 336.1205(3))

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee shall verify, at the request of the AQD District Supervisor, PM, PM-10, NOx, CO, and VOC emission rates from EUTOH-NG by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M
NOx	40 CFR Part 60, Appendix A
CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

2. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (R 336.1213(3))

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
4. The permittee shall submit any performance test reports, including RATA reports, to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

See Appendix 8

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVTOHBNG	47 ²	100 ²	R 336.1331 R 336.1702(a) 40 CFR 52.21(c) and (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD - National Emission Standards for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters referenced in the FGBOILERMACT section of this ROP. (40 CFR Part 63, Subpart DDDDD)

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EUPRESS
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Press System (EUPRESS) including the mat forming line with a paper overlay system and the board press. The paper overlay system will unroll, measure, cut, and apply the paper to the formed mat prior to the board press. The board press will include embossing plates to provide the SmartSide® wood grain finish. Press System including the mat forming line and the board press. Emissions from EUPRESS are controlled by a single device that oxidizes VOCs and HAPs either thermally (RTO) or catalytically (RCO). When operating as a RCO a layer of catalyst is placed in the combustion chamber, which allows the oxidation of VOC and HAPs to occur at lower temperatures. If the catalyst deactivates, the RCO can be converted to a RTO simply by increasing the temperature in the combustion chamber. Exposing the catalyst to high temperatures for prolonged periods of time deactivates the catalyst thus an RTO cannot be converted to a RCO unless the new layer of catalyst is placed in the combustion chamber.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

RCO or RTO Regenerative catalytic oxidizer (RCO) or regenerative thermal oxidizer (RTO)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	43.0 pph ^{22 *}	Hourly	EUPRESS	SC V.1	40 CFR 52.21 (c), (d), and (j)
2. NOx	155.0 tpy ^{22 **}	12-month rolling time period <u>as determined at the end of each calendar month</u>	EUPRESS	SC VI.2	40 CFR 52.21 (c), (d), and (j)
3. CO	0.51 lb/TFP ²²	12-month rolling time period <u>as determined at the end of each calendar month</u>	EUPRESS	SC V.1 See Source Wide Conditions II. 1 and VI.2 <u>and FGFACILITY SC I.1, SC 1.2, SC VI.2</u>	40 CFR 52.21 (d) and (j)
4. VOC	3.44 pph ^{2,2*}	Hourly	EUPRESS	SC V.1	R 336.1702(a)
5. VOC	12.4 tpy ^{22, **}	12-month rolling time period <u>as determined at the end of each calendar month</u>	EUPRESS	SC VI.3	R 336.1702(a)
6. PM	0.072 lb/TFP ²	12-month rolling time period	EUPRESS	III.2 Source Wide Conditions II.1 and VI.2	R 336.1331

ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
7.6. PM-10	0.072 lb/TFP ^{**}	12-month rolling time period	EUPRESS	SC V.2, SC VI.4, SC V.4 Source Wide Conditions II. 1 and VI.2 and FGFACILITY SC I.1, SC 1.2, SC VI.2	40 CFR 52.21 (c), (d), and (j)
7. PM10	2.0 pph	Hourly	EUPRESS	SC V.2	R 336.2803, R 336.2804
8. PM2.5	2.0 pph	Hourly	EUPRESS	SC V.2	R 336.2803, R 336.2804
8.9. Formaldehyde	5.91 pph^{**}	Hourly	EUPRESS	SC V.1	R 336.1225

^{*}If tested emission factors for EUPRESS exist, those emission factors shall be used to estimate pollutant emissions and determine compliance with the tons per year limit.
^{**}Annual limits are based on a facility-wide production limit of 310,000 tons of finished product.

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II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- Except as provided in SC V.43, the permittee shall maintain an hourly average minimum combustion chamber temperature of 800 degrees (RCO) or 1400 degrees (RTO) or not less than the last compliance test temperature that met the applicable VOC emission limitation in SC I during operation of the press based on a one hour average for the RCO or RTO that controls the EUPRESS emission unit.⁻² (~~R 336.1225, R 336.1702(a)R 336.1702, R 336.1910~~)
- Visible emissions from EUPRESS during normal operation (excluding the bake out time period) shall not exceed a six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.² (R 336.1301(1)(a))

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not produce product in EUPRESS unless the RCO or RTO is operating properly.⁻² (~~R 336.1910~~)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (~~R 336.1213(3)(b)(ii)~~)

- The permittee shall verify ~~PM-10, NOx, CO, and VOC, and Formaldehyde~~ emission rates from EUPRESS by testing at owner's expense, in accordance with the Department requirements once every five years from the last test. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM10/PM2.5	40 CFR Part 51, Appendix M
NOx	40 CFR Part 60, Appendix A

ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A
Formaldehyde	40 CFR Part 63, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c), (d), and (j))**

2. Within 180 days after commencement of initial startup and every five years thereafter, the permittee shall verify PM10 and PM2.5 emission rates from EUPRESS by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below. The permittee shall verify the PM10, NOx, CO, VOC, and Formaldehyde emission rates from EUPRESS, at a minimum, every five years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004).

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

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An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804).

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3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. **(R 336.1213(3))**
4. The permittee may lower the minimum operating temperature in the RCO/RTO below the last compliance test value that met the applicable VOC emission limitation if sufficient data is submitted to the Department that proves that VOC emissions can be maintained under the applicable emission limit at the lower temperature. The permittee may conduct trials at a temperature less than the most recent successful compliance test no more frequently than quarterly to obtain such data. ² **(R 336.1225, R 336.1702, R 336.1910)**

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See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall monitor and record the RCO/RTO combustion chamber temperature and the volumetric flow rate through the RCO/RTO on a continuous basis with instrumentation acceptable to the Air Quality Division, except if an alternate method(s) is approved by the District Supervisor, Air Quality Division. ² **(R 336.1201(3))**
2. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling NOx records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. ² **(R 336.1205(1)(a), 40 CFR 52.21(c), (d) and (j))**
3. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling VOC records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. ² **(R 336.1205(1)(a), R 336.1225, R 336.1702(a))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

4. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling PM10 records for EUPRESS. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205(1)(a), 40 CFR 52.21(c), (d) and (j))

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

See Appendix 8

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVPRESS	76 ²	100 ²	R 336.1225, R 336.1331, R 336.1702(a)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**EUFORMING
 EMISSION UNIT CONDITIONS**

DESCRIPTION

The forming line system includes the blenders, formers, flying cutoff saw, and forming line.

EUFORMING is a CAM subject emission unit subject to the requirements of 40 CFR Part 64. The CAM subject pollutant for this emission unit is PM-10.

Flexible Group ID: ~~FGBH2, FGBH1, FGMAIN3, FGLAIDIG~~

POLLUTION CONTROL EQUIPMENT

~~Baghouse dust collector.~~

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	EUFORMING	SC-VI.1 SC-VI.2	R 336.1331
2. PM	0.9 pph ²	Hourly	EUFORMING	SC-VI.1 SC-VI.2	R 336.1301
3. PM-10	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	EUFORMING	SC-VI.1 SC-VI.2	R 336.1205(3)
4. PM-10	0.9 pph ²	Hourly	EUFORMING	SC-VI.1 SC-VI.2	40 CFR 52.21 (c), (d) and (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

~~1. Visible emissions from EUFORMING shall not exceed a six-minute average of five percent opacity.²
 (R 336.1301, R 336.1331)~~

IV. DESIGN/EQUIPMENT PARAMETER(S)

~~1. The permittee shall not operate the pneumatic material delivery system of EUFORMING, unless the associated baghouse is operating properly.² (R 336.1910)~~

V. TESTING/SAMPLING

~~Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))~~

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. ~~(R 336.1213(3)(b)(ii))~~

- ~~1. The permitted shall conduct Visible Emission (VE) readings of the baghouse dust collectors daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collectors. Readings do not need to be conducted by a certified VE reader.² ~~(R 336.1304, R 336.1331, 40 CFR Part 64.6(c) & 64.7(b))~~~~
- ~~2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1–5.0 inches of H₂O.² ~~(40 CFR 64.6(c)(1)(i and ii))~~~~
- ~~3. An excursion is a departure from the indicator range of 0.1-5.0 inches of H₂O for.² ~~(40 CFR 64.6(c)(2))~~~~
- ~~4. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions).² ~~(40 CFR 64.7(d))~~~~
- ~~5. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.² ~~(40 CFR 64.6(c)(3), 64.7(c))~~~~
- ~~6. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment.² ~~(40 CFR 64.7(b))~~~~

VII. REPORTING

- ~~1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. ~~(R 336.1213(3)(c)(iii))~~~~
- ~~2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. ~~(R 336.1213(3)(c)(i))~~~~
- ~~3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. ~~(R 336.1213(4)(c))~~~~
- ~~4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. ~~(R 336.1213(3)(c), R 336.2001(5))~~~~
- ~~5. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. ~~(40 CFR 64.9(a)(2)(i))~~~~

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

See Appendix 8

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVMAIN2	27 X 37 ²	48 ²	R-336.1334

IX. OTHER REQUIREMENT(S)

1. ~~The permittee shall comply with all applicable requirements of 40 CFR Part 64. (40 CFR Part 64)~~

Footnotes:

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

²~~This condition is federally enforceable and was established pursuant to Rule 201(1)(a).~~

D. FLEXIBLE GROUP CONDITIONS

Part D outlines the terms and conditions that apply to more than one emission unit. The permittee is subject to the special conditions for each flexible group in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no special conditions that apply to more than one emission unit, this section will be left blank.

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
FGDRYERS	Three single pass wood flake dryers each with a wet ESP controlled by a single RTO.	EUFLAKE1 EUFLAKE2 EUFLAKE3
FGSANDER1	A baghouse controlling particulate emissions from EUSAWLINE, EUTGPATTERN, and EUSANDER.	EUSAWLINE EUTGPATTERN EUSANDER
FGSANDER2	A baghouse controlling particulate emissions from EUTGPATTERN and EUSANDER.	EUTGPATTERN EUSANDER
FGMAIN1	A baghouse controlling particulate emissions from EUSAWLINE, EUTGPATTERN, and EUSANDER.	EUSAWLINE EUTGPATTERN EUSANDER
FGMAIN3	A baghouse controlling particulate emissions from EUSAWLINE, EUFORMING, EUFINISHING1, EUFINISHING2, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, and EUFUELBIN.	EUSAWLINE EUFORMING EUFINISHING1 EUFINISHING2 EUSANDER EUTGPATTERN EUHAMMERMILL1 EUFUELBIN
FGLAIDIG	A baghouse controlling particulate emissions from EUSAWLINE, EUFORMING, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, AND EUFUELBIN.	EUSAWLINE EUFORMING EUSANDER EUTGPATTERN EUHAMMERMILL1 EUFUELBIN
<u>FGBH1</u>	<u>A baghouse controlling particulate emissions from EUSCREENES, EUFORMING, EUSAWLINE, EUTGPATTERN, EUSANDER, EUHAMMERMILL1, and EUFUELBIN.</u>	<u>EUSCREENES EUFORMING EUSAWLINE EUTGPATTERN EUSANDER EUHAMMERMILL1 EUFUELBIN</u>
<u>FGBH2</u>	<u>A baghouse controlling particulate emissions from EUFORMING.</u>	<u>EUFORMING</u>

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ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGBH3	A baghouse controlling particulate emissions from EUPULVERIZNG1, EUPULVERIZNG2, EUHAMMERMILL1, EUFUELBIN and fuel fines material transfer.	EUPULVERIZNG1 EUPULVERIZNG2 EUHAMMERMILL1 EUFUELBIN
FGBH4	A baghouse controlling particulate emissions from EUSAWLINE.	EUSAWLINE
FGBH5	A baghouse controlling particulate emissions from EUOVERFINES, EUSAWLINE, EUPANELLINE, EULAPLANE1, EULAPLANE2, EUTGPATTERN, EUSANDER and fuel fines material transfer.	EUOVERFINES EUSAWLINE EUPANELLINE EULAPLANE1 EULAPLANE2 EUTGPATTERN EUSANDER
FGBH6	A baghouse controlling particulate emissions from EUPANELLINE, EULAPLANE1, and EULAPLANE2.	EUPANELLINE EULAPLANE1 EULAPLANE2
FGBH7	A baghouse controlling particulate emissions from EUPATTERN and EUSANDER.	EUTGPATTERN EUSANDER
FGBH8	A baghouse controlling particulate emissions from EUVSLINE and EUHOG.	EUVSLINE EUHOG
FGFINISHOVENS	Direct natural gas fired ovens on the Panel finishing line and Lap finishing lanes 1 and 2.	EUPANELOV EULAP1OV EULAP1XOV EULAP2OV EULAP2XOV
FGBLRS/HTRS	Two (2) natural gas-fired service water heaters and thirty-nine (39) natural gas-fired air make-up units and space heaters.	NA
FGCIRICEMACTFGEN GINECI	Existing compression ignition engines <500 HP located at a Major Source subject to RICE MACT conditions.	EUFIREPUMP EUTODIESEL
FGSIRICEMACTFGEN GINESI	Existing spark ignition engines <500 HP located at a Major Source subject to RICE MACT conditions.	EUDRYER1BACKUP EUDRYER2BACKUP EUDRYER3BACKUP
FGBOILERMACT	Existing boilers and process heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD	EUTOH-NG EUTOH-WOOD

**FGDRYERS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Three single pass wood flake dryers, each with a process cyclone to collect PM.

FGDRYERS is a CAM subject emission unit subject to the requirements of 40 CFR Part 64. The CAM subject pollutant for this emission unit is PM and PM-10.

Emission Units: EUFLAKE1, EUFLAKE2, EUFLAKE3

POLLUTION CONTROL EQUIPMENT

Wet Electrostatic Precipitators.
 Regenerative Thermal Oxidizer.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	0.62 lb/TFP Hardwood ²	12-month rolling average	FGDRYERS	SC V.1 SC VI.2 Appendix 7	R 336.2803 R 336.2804 R 336.2810 40 CFR 52.21 (c), (d), and (j)
2. NOx	1.24 lb/TFP Softwood ²	12-month rolling average	FGDRYERS	II.1 SC V.1 SC VI.2 and 5, Appendix 7	R 336.2803 R 336.2804 R 336.2810 40 CFR 52.21 (c), (d), and (j)
3. CO	3.64 lb/TFP Hardwood ²	12-month rolling average	FGDRYERS	SC V.1 SC VI.3 Appendix 7	R 336.2803 R 336.2804 R 336.2810 40 CFR 52.21 (d) and (j)
4. CO	4.39 lb/TFP Softwood ²	12-month rolling average	FGDRYERS	II.1 SC V.1 SC VI.3 and 5, Appendix 7	R 336.2804 R 336.2810 40 CFR 52.21 (d) and (j)
5. VOC	0.29 lb/TFP Hardwood ²	12-month rolling average	FGDRYERS	SC V.1 SC VI.4 Appendix 7	R 336.1702(a)
6. VOC	0.37 lb/TFP Softwood ²	12-month rolling average	FGDRYERS	II.1 SC V.1 SC VI.4 and 5, Appendix 7	R 336.1702(a)
7. PM	0.007 gr/dscf ²	Continuously	FGDRYERS	III. 1	R 336.1331
8. PM	10.0 pph ²	Hourly	FGDRYERS	III. 1	R 336.1301

ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
9. PM-10	0.007 gr/dscf ²	Continuously	FGDRYERS	SC V.1	R 336.2803 R 336.2804 R 336.2810 40 CFR 52.21 (c), (d), and (j)
10. PM-10	10.0 pph ²	Hourly	FGDRYERS	SC V.1	R 336.2803 R 336.2804 R 336.2810 40 CFR 52.21 (c), (d), and (j)
11. Formaldehyde	6.8 pph ²	Hourly	FGDRYERS	SC V.1	R 336.1225

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Softwood	60 percent or less (unless testing to determine compliance with emission limits has occurred) ²	12 month rolling time period	FGDRYERS	SC VI. 5	R 336.1225 R 336.1702 (a) R 336.1901

III. PROCESS/OPERATIONAL RESTRICTION(S)

- Visible emissions from FGDRYERS during normal operation (excluding the bake out time period) shall not exceed a six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.² (R 336.1301(1)(a))
- The permittee shall maintain an hourly average minimum combustion chamber temperature in the RTO of 1550 degrees Fahrenheit, or not less than the last compliance test value that met the applicable VOC emission limitation. The permittee shall maintain an hourly average maximum flow rate through the RTO of 217,000 actual cubic feet per minute only if FGDRYERS is operating.² (R 336.1702 (a), R 336.1910)

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate FGDRYERS unless the Wet Electrostatic Precipitator and the Regenerative Thermal Oxidizer are operating properly.² (R 336.1910)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee shall verify NOx, CO, VOC, PM-10, and Formaldehyde emission rates from FGDRYERS by testing at owner's expense, in accordance with the Department requirements, at a minimum, every five years from the date of the last test. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M
NOx	40 CFR Part 60, Appendix A

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A
Formaldehyde	40 CFR Part 63, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21 (c), (d) and (j))

2. The permittee may lower the minimum operating temperature in the RTO below the last compliance test value that met the applicable VOC emission limitation if sufficient data is submitted to the Department - and approved by the District Supervisor, Air Quality Division - that proves that VOC emissions can be maintained under the applicable emission limit at the lower temperature. The permittee may conduct trials at a temperature lower than the most recent successful compliance test no more frequently than quarterly to obtain such data.² (R 336.1702, R 336.1910)

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. The permittee shall monitor and record the RTO combustion chamber temperature and the volumetric flow rate through the RTO on a continuous basis with instrumentation acceptable to the Air Quality Division.² (R 336.1201)
2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling NOx records for FGDRYERS. All records shall be kept on file for a period of at least five years and made available to the Department upon request.² (R 336.1205(1)(a) and (3), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(c), (d) and (j))
3. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling CO records for FGDRYERS. All records shall be kept on file for a period of at least five years and made available to the Department upon request.² (R 336.1205(1)(a) and (3), R 336.2804, R 336.2810, 40 CFR 52.21 (d) and (j))
4. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling VOC records for FGDRYERS. All records shall be kept on file for a period of at least five years and made available to the Department upon request.² (R 336.1205(1)(a) and (3), R 336.1225, R 336.1702(a))
5. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling average softwood usage records for FGDRYERS. All records shall be kept on file for a period of at least five years and made available to the Department upon request.² (R 336.1205(1)(a) and (3), R 336.1225, R 336.1702(a))
- ~~6.4.~~ The permittee shall continuously monitor and record twice per shift the transformer voltage for both transformers as an indicator of proper operation of each ESP. The indicator range is 40 kV to 70 kV. (40 CFR 64.6(c)(1)(i) and (ii))
- ~~7.5.~~ An excursion is a departure from the indicator range of 40kV to 70kV for more than one hour. (40 CFR 64.6(c)(2))

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

8.6. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). The operator must shut down the corresponding wet bin live bottom if the upset condition is not corrected. **(40 CFR 64.7(d))**

9.7. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 64.7(c))**

10.8. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**

14.9. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan and any activities undertaken to implement a quality improvement plan, and other information such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions. **(40 CFR 64.9(b)(1))**

See Appendix 7

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. **(40 CFR 64.9(a)(2)(i))**
5. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. **(40 CFR 64.9(a)(2)(ii))**
6. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

See Appendix 8

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVDRYERS	96 ²	100 ²	R 336.1225, R 336.1331, R 336.2803, R 336.2804, 40 CFR 52.21 (c) and (d)

IX. OTHER REQUIREMENT(S)

1. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the AQD and if necessary, submit a proposed modification of the CAM Plan to address the necessary monitoring changes. Such a modification may include but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. **(40 CFR 64.7(e))**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FGSANDER1
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUSAWLINE, EUTGPATTERN, and EUSANDER.

FGSANDER1 is a CAM subject emission unit subject to the requirements of 40 CFR Part 64. The CAM subject pollutant for this emission unit is PM-10.

Emission Units: EUSAWLINE, EUTGPATTERN, and EUSANDER.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGSANDER1	SC-VI. 1 SC-VI. 2	R 336.1334
2. PM	0.68 pph ²	Hourly	FGSANDER1	SC-VI. 1 SC-VI. 2	R 336.1304
3. PM-10	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGSANDER1	SC-VI. 1 SC-VI. 2	R 336.1205(a)
4. PM-10	0.68 pph ²	Hourly	FGSANDER1	SC-VI. 1 SC-VI. 2	40 CFR 52.21 (c), (d) and (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Visible emissions from FGSANDER1 shall not exceed a six-minute average of 5 percent opacity.² **(R 336.1304, R 336.1334)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the pneumatic material delivery system directly leading to FGSANDER1, unless the associated baghouse is operating properly.² **(R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

See Appendix 5

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. ~~(R 336.1213(3)(b)(ii))~~

- ~~1. The permitted shall conduct Visible Emission (VE) readings of the baghouse dust collectors daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collectors. Readings do not need to be conducted by a certified VE reader.² ~~(R 336.1301, R 336.1331, 40 CFR Part 64.6(c) & 64.7(b))~~~~
- ~~2. The permittee shall continuously measure the pressure drop and record once per 12 hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-5.0 inches of H₂O.² ~~(40 CFR 64.6(c)(1)(i and ii))~~~~
- ~~3. An excursion is a departure from the indicator range of 0.1 to 5.0 inches of H₂O for greater than one hour.² ~~(40 CFR 64.6(c)(2))~~~~
- ~~4. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). ~~(40 CFR 64.7(d))~~~~
- ~~5. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. ~~(40 CFR 64.6(c)(3), 64.7(c))~~~~
- ~~6. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. ~~(40 CFR 64.7(b))~~~~

VII. REPORTING

- ~~1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. ~~(R 336.1213(3)(c)(ii))~~~~
- ~~2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. ~~(R 336.1213(3)(c)(i))~~~~
- ~~3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. ~~(R 336.1213(4)(c))~~~~
- ~~4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. ~~(R 336.1213(3)(c), R 336.2001(5))~~~~
- ~~5. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions~~

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

~~and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. (40 CFR 64.9(a)(2)(i))~~

~~6. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. (40 CFR 64.9(a)(2)(ii))~~

~~See Appendix 8~~

~~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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVSANDER1	20 X 27²	32²	R-336.1331 40 CFR 52.21(c) and (d)

~~IX. OTHER REQUIREMENT(S)~~

~~1. The permittee shall comply with all applicable requirements of 40 CFR Part 64. (40 CFR Part 64)~~

~~**Footnotes:**~~

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

~~²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).~~

**FGSANDER2
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUTGPATTERN and EUSANDER

FGSANDER2 is a CAM subject emission unit subject to the requirements of 40 CFR Part 64. The CAM subject pollutant for this emission unit is PM-10.

Emission Units: EUTGPATTERN and EUSANDER

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGSANDER2	SC-VI-1 SC-VI-2	R 336.1331
2. PM	1.24 pph ²	Hourly	FGSANDER2	SC-VI-1 SC-VI-2	R 336.1301
3. PM-10	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGSANDER2	SC-VI-1 SC-VI-2	R 336.1205(a)
4. PM-10	1.24 pph ²	Hourly	FGSANDER2	SC-VI-1 SC-VI-2	40 CFR 52.21 (c), (d) and (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Visible emissions from FGSANDER2 shall not exceed a six-minute average of 5 percent opacity.² ~~(R 336.1301, R 336.1331)~~

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the pneumatic material delivery system directly leading to FGSANDER2, unless the associated baghouse is operating properly.² ~~(R 336.1910)~~

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. ~~(R 336.1213(3)(b)(ii))~~

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

- ~~1. The permitted shall conduct Visible Emission (VE) readings of the baghouse dust collectors daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collectors. Readings do not need to be conducted by a certified VE reader². **(R 336.1304, R 336.1331, 40 CFR Part 64.6(c) & 64.7(b))**~~
- ~~2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-5.0 inches of H₂O.² **(40 CFR 64.6(c)(1)(i and ii))**~~
- ~~3. An excursion is a departure from the indicator range of 0.1 to 5.0 inches of H₂O for greater than one hour.² **(40 CFR 64.6(c)(2))**~~
- ~~4. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). **(40 CFR 64.7(d))**~~
- ~~5. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 64.7(c))**~~
- ~~6. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**~~

VII. REPORTING

- ~~1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**~~
- ~~2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**~~
- ~~3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**~~
- ~~4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**~~

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

~~5. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. (40 CFR 64.9(a)(2)(i))~~

~~6. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. (40 CFR 64.9(a)(2)(ii))~~

See Appendix 8

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVSANDER2	26 x 34²	30²	R 336.1331 40 CFR 52.21(c) and (d)

IX. OTHER REQUIREMENT(S)

~~1. The permittee shall comply with all applicable requirements of 40 CFR Part 64. (40 CFR Part 64)~~

Footnotes:

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

~~²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).~~

**FGMAIN1
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUSAWLINE, EUTGPATTERN, AND EUSANDER

FGMAIN1 is a CAM subject emission unit subject to the requirements of 40 CFR Part 64. The CAM subject pollutant for this emission unit is PM-10.

Emission Units: EUSAWLINE, EUTGPATTERN, AND EUSANDER

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGMAIN1	SC-VI-1 SC-VI-2	R 336.1331
2. PM	1.6 pph ²	Hourly	FGMAIN1	SC-VI-1 SC-VI-2	R 336.1301
3. PM-10	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGMAIN1	SC-VI-1 SC-VI-2	R 336.1205(a)
4. PM-10	1.6 pph ²	Hourly	FGMAIN1	SC-VI-1 SC-VI-2	40 CFR 52.21 (c), (d) and (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Visible emissions from FGMAIN1 shall not exceed a six-minute average of five percent opacity.² **(R 336.1301, R 336.1331)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the pneumatic material delivery system directly leading to FGMAIN1, unless the associated baghouse is operating properly.² **(R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

1. ~~The permitted shall conduct Visible Emission (VE) readings of the baghouse dust collectors daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collectors. Readings do not need to be conducted by a certified VE reader². (R 336.1301, R 336.1331, 40 CFR Part 64.6(c) & 64.7(b))~~
2. ~~The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1 to 5.0 inches of H₂O.² (40 CFR 64.6(c)(1)(i and ii))~~
3. ~~An excursion is a departure from the indicator range of 0.1 to 5.0 inches of H₂O for greater than one hour.² (40 CFR 64.6(c)(2))~~
4. ~~Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). (40 CFR 64.7(d))~~
5. ~~Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. (40 CFR 64.6(c)(3), 64.7(c))~~
6. ~~The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. (40 CFR 64.7(b))~~

VII. REPORTING

1. ~~Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))~~
2. ~~Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))~~
3. ~~Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))~~
4. ~~The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))~~
5. ~~Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. (40 CFR 64.9(a)(2)(i))~~

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

~~6. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. (40 CFR 64.9(a)(2)(ii))~~

~~See Appendix 8~~

~~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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVMAIN1	27 x 37²	48²	R 336.1334 40 CFR 52.21(c) and (d)

~~IX. OTHER REQUIREMENT(S)~~

~~1. The permittee shall comply with all applicable requirements of 40 CFR Part 64. (40 CFR Part 64)~~

~~**Footnotes:**~~

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

~~²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).~~

**FGMAIN3
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUSAWLINE, EUFORMING, EUFINISHING1, EUFINISHING2, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, AND EUFUELBIN

FGMAIN3 is a CAM subject emission unit subject to the requirements of 40 CFR Part 64. The CAM subject pollutant for this emission unit is PM-10.

Emission Units: EUSAWLINE, EUFORMING, EUFINISHING1, EUFINISHING2, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, AND EUFUELBIN

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector. This is a CAM subject control device.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs exhaust gas calculated on a dry gas basis ²	Continuously	FGMAIN3	SC-VI.1 SC-VI.2	R 336.1331
2. PM	1.1 pph ²	Hourly	FGMAIN3	SC-VI.1 SC-VI.2	R 336.1301
3. PM-10	0.01 lb/1000 lbs exhaust gas calculated on a dry gas basis ²	Continuously	FGMAIN3	SC-VI.1 SC-VI.2	R 336.1205(a)
4. PM-10	1.1 pph ²	Hourly	FGMAIN3	SC-VI.1 SC-VI.2	40 CFR 52.21 (e), (d) and (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Visible emissions from FGMAIN3 shall not exceed a six-minute average of five percent opacity.² (R 336.1301, R 336.1331)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the pneumatic material delivery system directly leading to FGMAIN3, unless the associated baghouse is operating properly.² (R 336.1910)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. ~~(R 336.1213(3)(b)(ii))~~

- ~~1. The permittee shall conduct Visible Emission (VE) readings of the baghouse dust collectors daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collectors. Readings do not need to be conducted by a certified VE reader.² **(R 336.1301, R 336.1331, 40 CFR Part 64.6(c) & 64.7(b))**~~
- ~~2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1 to 5.0 inches of H₂O.² **(40 CFR 64.6(c)(1)(i and ii))**~~
- ~~3. An excursion is a departure from the indicator range of 0.1 to 5.0 inches of H₂O for greater than one hour.² **(40 CFR 64.6(c)(2))**~~
- ~~4. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). **(40 CFR 64.7(d))**~~
- ~~5. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 64.7(c))**~~
- ~~6. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**~~

VII. REPORTING

- ~~1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**~~
- ~~2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**~~
- ~~3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**~~
- ~~4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**~~
- ~~5. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions~~

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

~~and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. (40 CFR 64.9(a)(2)(i))~~

~~6. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. (40 CFR 64.9(a)(2)(ii))~~

~~See Appendix 8~~

~~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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVMAIN3	34²	52²	R-336.1331 40 CFR 52.21 (c) and (d)

~~IX. OTHER REQUIREMENT(S)~~

~~1. The permittee shall comply with all applicable requirements of 40 CFR Part 64. (40 CFR Part 64)~~

~~**Footnotes:**~~

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

~~²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).~~

**FGLAIDIG
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUSAWLINE, EUFORMING, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, AND EUFUELBIN.

Emission Units: EUSAWLINE, EUFORMING, EUSANDER, EUTGPATTERN, EUHAMMERMILL1, AND EUFUELBIN

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGLAIDIG	III.1	R 336.1331
2. PM	0.14 pph ²	Hourly	FGLAIDIG	III.1	R 336.1301
3. PM-10	0.01 lb/1000 lbs exhaust gas, calculated on a dry gas basis ²	Continuously	FGLAIDIG	III.1	R 336.1205(a)
4. PM-10	0.14 pph ²	Hourly	FGLAIDIG	III.1	40 CFR 52.21 (e), (d) and (j)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Visible emissions from FGLAIDIG shall not exceed a six-minute average of five percent opacity.² (R 336.1301, R 336.1331)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the pneumatic material delivery system directly leading to FGLAIDIG, unless the associated baghouse is operating properly.² (R 336.1910)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

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VII. REPORTING

- ~~1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))~~
- ~~2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))~~
- ~~3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))~~
- ~~4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))~~

See Appendix 8

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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVLAIDIG	8²	50²	R 336.1331 40 CFR 52.21 (c) and (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FGBH1
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUSCREENS, FGBH2, FGBH4, and FGBH7.

Emission Units: EUSCREENS, EUFORMING (FGBH2), EUSAWLINE (FGBH4), EUPATTERN and EUSANDER (FGBH7), and EUMAMMERMILL1, and EUFUELBIN

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM10	0.39 pph	Hourly	FGBH1	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH1	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH1, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.

b) An identification of the source and air-cleaning device operating variables that shall be

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monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.

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c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

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If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

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1. The permittee shall not operate the process equipment and emission units controlled by FGBH1 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (R 336.1301, R 336.1331, R 336.1910)

V. TESTING/SAMPLING

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

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH5 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

<u>Pollutant</u>	<u>Test Method Reference</u>
PM10 / PM2.5	40 CFR Part 51, Appendix M

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An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH1 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)

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2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. (R 336.1331)

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VII. REPORTING

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NA

VIII. STACK/VENT RESTRICTION(S)

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

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. SVBH1	48	60	R 336.1225, R 336.2803, R 336.2804

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IX. OTHER REQUIREMENT(S)

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**FGBH2
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUFORMING.

Emission Units: EUFORMING

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring/ Testing Method</u>	<u>Underlying Applicable Requirements</u>
1. PM10	0.36 pph	Hourly	FGBH2	SC V.1	R 336.2803. R 336.2804
2. PM2.5	0.36 pph	Hourly	FGBH2	SC V.1	R 336.2803. R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH2, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.

b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.

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c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

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If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

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1. The permittee shall not operate the process equipment and emission units controlled by FGBH2 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (R 336.1301, R 336.1331, R 336.1910)

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V. TESTING/SAMPLING

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

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH2 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

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<u>Pollutant</u>	<u>Test Method Reference</u>
<u>PM10 / PM2.5</u>	<u>40 CFR Part 51, Appendix M</u>

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An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

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VI. MONITORING/RECORDKEEPING

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

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1. The permittee shall conduct Visible Emission (VE) readings for FGBH2 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)

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2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an

indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. (R 336.1331)

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VII. REPORTING

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NA

VIII. STACK/VENT RESTRICTION(S)

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

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. SVBH2	48	60	R 336.1225, R 336.2803, R 336.2804

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IX. OTHER REQUIREMENT(S)

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NA

**FGBH3
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUPULVERIZING1, EUPULVERIZING2, and fuel fines material transfer.

Emission Units: EUPULVERIZING1, EUPULVERIZING2, EUHAMMERMILL1 and EUFUELBIN, and fuel fines material transfer.

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POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

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J. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring/ Testing Method</u>	<u>Underlying Applicable Requirements</u>
1. <u>PM10</u>	<u>0.21 pph</u>	<u>Hourly</u>	<u>FGBH3</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>
2. <u>PM2.5</u>	<u>0.21 pph</u>	<u>Hourly</u>	<u>FGBH3</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>

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II. MATERIAL LIMIT(S)

NA

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III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH3, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

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a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.

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b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a

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description of the method of monitoring or surveillance procedures.

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c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

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If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

IV. DESIGN/EQUIPMENT PARAMETER(S)

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1. The permittee shall not operate the process equipment and emission units controlled by FGBH3 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (R 336.1301, R 336.1331, R 336.1910)

V. TESTING/SAMPLING

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

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH3 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

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Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH3 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)

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2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. (R 336.1331)

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VII. REPORTING

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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:

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<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. SVBH3	48	60	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

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FGBH4
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUSAWLINE.

Emission Units: EUSAWLINE

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring/ Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. PM10</u>	<u>0.39 pph</u>	<u>Hourly</u>	<u>FGBH4</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>
<u>2. PM2.5</u>	<u>0.39 pph</u>	<u>Hourly</u>	<u>FGBH4</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH4, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

- a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
- b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
- c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

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IV. DESIGN/EQUIPMENT, PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH4 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (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))

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH4 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH4 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)

2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. (R 336.1331)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

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

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. <u>SVBH4</u>	<u>48</u>	<u>80</u>	<u>R 336.1225,</u> <u>R 336.2803, R 336.2804</u>

IX. OTHER REQUIREMENT(S)

NA

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FGBH5
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUOVERFINES, FGBH4, FGBH6, and FGBH7.

Emission Units: EUOVERFINES, EUFORMING (FGBH2), EUPANELLINE, EULAPLANE1, EULAPLANE2 (FGBH6), EUTGPATTERN and EUSANDER (FGBH7), and fuel fines material transfer.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring/ Testing Method</u>	<u>Underlying Applicable Requirements</u>
1. <u>PM10</u>	<u>0.47 pph</u>	<u>Hourly</u>	<u>FGBH5</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>
2. <u>PM2.5</u>	<u>0.47 pph</u>	<u>Hourly</u>	<u>FGBH5</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH5, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
 - c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

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IV. DESIGN/EQUIPMENT PARAMETER(S)

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1. The permittee shall not operate the process equipment and emission units controlled by FGBH5 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (R 336.1301, R 336.1331, R 336.1910)

V. TESTING/SAMPLING

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

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH5 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

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Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH5 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H2O. (R 336.1331)

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V. REPORTING

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NA

VI. STACK/VENT RESTRICTION(S)

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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 Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBH5	48	60	R 336.1225, R 336.2803, R 336.2804

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

IX. OTHER REQUIREMENT(S)

NA

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FGBH6
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUPANELLINE, EULAPLANE1, AND EULAPLANE2.

Emission Units: EUPANELLINE, EULAPLANE1, AND EULAPLANE2.

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring/ Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. PM10</u>	<u>0.51 pph</u>	<u>Hourly</u>	<u>FGBH6</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>
<u>2. PM2.5</u>	<u>0.51 pph</u>	<u>Hourly</u>	<u>FGBH6</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH6, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.

b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.

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c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

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IV. DESIGN/EQUIPMENT PARAMETER(S)

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1. The permittee shall not operate the process equipment and emission units controlled by FGBH6 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (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))

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH6 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10/ PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH6 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)

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2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. (R 336.1331)

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VII. REPORTING

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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:

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. SVBH6	48	80	R 336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

NA

**FGBH7
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

A baghouse controlling particulate emissions from EUTGPATTERN and EUSANDER.

Emission Units: EUTGPATTERN, EUSANDER

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring/ Testing Method</u>	<u>Underlying Applicable Requirements</u>
1. PM10	0.39 pph	Hourly	FGBH7	SC V.1	R 336.2803, R 336.2804
2. PM2.5	0.39 pph	Hourly	FGBH7	SC V.1	R 336.2803, R 336.2804

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH7, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

- a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
- b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
- c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

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IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the process equipment and emission units controlled by FGBH7 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (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))

1. Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH7 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall conduct Visible Emission (VE) readings for FGBH7 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)
2. The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. (R 336.1331)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

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ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

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

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. <u>SVBH7</u>	<u>48</u>	<u>60</u>	<u>R 336.1225,</u> <u>R 336.2803, R 336.2804</u>

IX. OTHER REQUIREMENT(S)

NA

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FGBH8
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A baghouse controlling particulate emissions from EUVSLINE and EUHOG.

Emission Units: EUVSLINE, EUHOG

POLLUTION CONTROL EQUIPMENT

Baghouse dust collector.

I. EMISSION LIMIT(S)

<u>Pollutant</u>	<u>Limit</u>	<u>Time Period/ Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring/ Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. PM10</u>	<u>0.47 pph</u>	<u>Hourly</u>	<u>FGBH8</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>
<u>2. PM2.5</u>	<u>0.47 pph</u>	<u>Hourly</u>	<u>FGBH8</u>	<u>SC V.1</u>	<u>R 336.2803, R 336.2804</u>

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate process equipment or emission units controlled by FGBH8, unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the baghouse, has been submitted within 30 days of commencement of trial operation, and is implemented and maintained. The MAP shall, at a minimum, specify the following:

- a) A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
- b) An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
- c) A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits. (R 336.1910, R 336.1911)

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IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall not operate the process equipment and emission units controlled by FGBH8 unless a gauge, which continuously measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds 10.0 inches water, is installed, maintained and operated in a satisfactory manner acceptable to the AQD District Supervisor. (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))

- Within 180 days after commencement of initial startup and upon the request of the AQD District Supervisor thereafter, the permittee shall verify PM10 and PM2.5 emission rates from FGBH8 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in the table below.

Pollutant	Test Method Reference
PM10 / PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804)

VI. MONITORING/RECORDKEEPING

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

- The permittee shall conduct Visible Emission (VE) readings for FGBH8 daily for one minute each at 15 second intervals. The VE readings shall be conducted during daylight hours by a VE reader who is familiar with the dust collector. Readings do not need to be conducted by a certified VE reader. (R 336.1301)
- The permittee shall continuously measure the pressure drop and record once per 12-hour shift as an indicator of proper operation of the dust collector. The indicator range is 0.1-10.0 inches of H₂O. (R 336.1331)

VII. REPORTING

NA

VIII. STACK/VENT, RESTRICTION(S)

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ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

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

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
1. <u>SVBH8</u>	<u>48</u>	<u>60</u>	<u>R 336.1331</u> <u>R 336.2803, R 336.2804</u>

IX. OTHER REQUIREMENT(S)

NA

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**FGFINISHOVENS
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Five direct natural gas-fired drying ovens on the panel finishing line (EUPANELLINE) and lap finishing lanes 1 and 2 (EULAPLANE1 AND EULAPLANE 2).

Emission Unit: EUPANELOV, EULAP1OV, EULAP1XOV, EULAP2OV, and EULAP2XOV

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POLLUTION CONTROL EQUIPMENT

NA

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I. EMISSION LIMIT(S)

NA

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II. MATERIAL LIMIT(S)

1. The permittee shall only burn natural gas in each oven in FGINISHOVENS. (R 336.1225, R 336.1702)

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III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The total heat input capacity of the ovens in FGINISHOVENS shall not exceed a maximum of 27.6 MM BTU per hour.1 (R 336.1225)

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IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

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V. TESTING/SAMPLING

NA

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VI. MONITORING/RECORDKEEPING

NA

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VII. REPORTING

NA

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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:1

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<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
SVPANELOV1	14	40	R 336.1225
SVPANELOV2	14	40	R 336.1225

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ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

<u>Stack & Vent ID</u>	<u>Maximum Exhaust Dimensions (inches)</u>	<u>Minimum Height Above Ground (feet)</u>	<u>Underlying Applicable Requirements</u>
SVLAP1OV1	14	40	R 336.1225
SVLAP1OV2	14	40	R 336.1225
SVLAP1XOV1	14	40	R 336.1225
SVLAP1XOV2	14	40	R 336.1225
SVLAP2OV1	14	40	R 336.1225
SVLAP2OV2	14	40	R 336.1225
SVLAP2XOV1	14	40	R 336.1225
SVLAP2XOV2	14	40	R 336.1225

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IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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**FGBLRS/HTRS
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Two (2) natural gas-fired service water heaters and thirty-nine (39) natural gas-fired air make-up units and space heaters.

Emission Unit: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall only burn natural gas in each combustion unit in FGBLRS/HTRS. (R 336.1225, R 336.1702)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The total heat input capacity of the combustion units in FGBLRS/HTRS shall not exceed a maximum of 92.2 MMBTU per hour.¹ (R 336.1225)

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

NA

VII. REPORTING

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NA

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VIII. STACK/VENT RESTRICTION(S)

▲ -----

NA

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IX. OTHER REQUIREMENT(S)

▲ -----

NA

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Footnotes:

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

**FGCIRICEMACT
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Existing Stationary Emergency Engines located at a Major Source < 500 HP, Commenced Construction or Reconstruction **before June 12, 2006.**

The compliance date was May 3, 2013

Emission Unit: EUFIREPUMP and EUTODIESEL

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Each CI engine shall be installed, maintained, and operated in a satisfactory manner. A list of recommended work practice standards as specified in 63.6602 and Table 2c, Item 1 or the permittee may petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices. The following are the recommended work practices specified in 40 CFR Part 63, Subpart ZZZZ Table 2c:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If the CI engine is being operated during an emergency and it is not possible to shut down the engine to perform the work practice standards on the schedule required, the work practice standard can be delayed until the emergency is over. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State or local law has been abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law or which the risk was deemed unacceptable. **(40 CFR 63.6602, 40 CFR Part 63, Subpart ZZZZ Table 2c, Item 1)**

2. The permittee shall operate each CI engine in compliance with the emission limitations and operating limitations in this subpart. Each CI engine must be operated and maintained at any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.6605)**
3. Each CI engine shall be maintained and operated per the manufacturer's emission related written instructions or develop a maintenance plan which must provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. **(40 CFR 63.6625(e), 40 CFR 63.6640(a), 40 CFR Part 63, Subpart ZZZZ, Table 6 Item 9)**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

4. The permittee shall minimize the time spent at idle during startup and minimize the startup time of each CI engine to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. **(40 CFR 63.6625(h))**
5. The permittee shall not exceed 100 hours per year for maintenance checks and readiness testing. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(1)(ii))**
6. The permittee may operate each CI engine for non-emergency situations for up to 50 hours per year as allowed in 40 CFR 63.6640 (f)(1)(iii). **(40 CFR 63.6640(f)(1)(iii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each CI engine with a non-resettable hour meter to track the number of hours each CI engine operates. **(40 CFR 63.6625(f))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each CI engine the permittee shall keep in a satisfactory manner, records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(2), 40 CFR 63.6660)**
2. For each CI engine the permittee shall keep in a satisfactory manner, records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(5), 40 CFR 63.6660)**
3. For each CI engine the permittee shall keep in a satisfactory manner, records to demonstrate continuous compliance with operating limitations in SC III.1 and SC III.2. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(d), 40 CFR 63.6660)**
4. For each CI engine the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(e), 40 CFR 63.6660)**
5. For each CI engine the permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of demand response. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(f), 40 CFR 63.6660)**

VII. REPORTING

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit any performance test reports, including RATA reports, to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, for Stationary Reciprocating Internal Combustion Engines by the initial compliance date of May 3, 2013. **(40 CFR 63.6595(a)(1), 40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FGSIRICEMACT
FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Existing Stationary Emergency Engines located at a Major Source < 500 HP, Commenced Construction or Reconstruction **before June 12, 2006**.

The compliance date is October 19, 2013

Emission Unit: EUDRYER1BACKUP, EUDRYER2BACKUP, and EUDRYER3BACKUP

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Each SI engine shall be installed, maintained, and operated in a satisfactory manner. A list of recommended work practice standards as specified in 63.6602 and Table 2c, Item 6 or the permittee may petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices. The following are the recommended work practices specified in 40 CFR Part 63, Subpart ZZZZ Table 2c:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - b. Inspect the spark plugs every 1,000 hours of operation or annually, whichever comes first; and
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If the SI engine is being operated during an emergency and it is not possible to shut down the engine to perform the work practice standards on the schedule required, the work practice standard can be delayed until the emergency is over. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State or local law has been abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law or which the risk was deemed unacceptable. **(40 CFR 63.6602, 40 CFR Part 63, Subpart ZZZZ Table 2c, Item 6)**

2. The permittee shall operate each SI engine in compliance with the emission limitations and operating limitations in this subpart. Each SI engine must be operated and maintained at any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.6605)**
3. Each SI engine shall be maintained and operated per the manufacturer's emission related written instructions or develop a maintenance plan which must provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. **(40 CFR 63.6625(e), 40 CFR 63.6640(a), 40 CFR Part 63, Subpart ZZZZ, Table 6 Item 9)**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

4. The permittee shall minimize the time spent at idle during startup and minimize the startup time of each SI engine to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. **(40 CFR 63.6625(h))**
5. The permittee shall not exceed 100 hours per year for maintenance checks and readiness testing. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. **(40 CFR 63.6640(f)(1)(ii))**
6. The permittee may operate each SI engine for non-emergency situations for up to 50 hours per year as allowed in 40 CFR 63.6640 (f)(1)(iii). **(40 CFR 63.6640(f)(1)(iii))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each SI engine with a non-resettable hour meter to track the number of hours each SI engine operates. **(40 CFR 63.6625(f))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each SI engine the permittee shall keep in a satisfactory manner, records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(2), 40 CFR 63.6660)**
2. For each SI engine the permittee shall keep in a satisfactory manner, records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(a)(5), 40 CFR 63.6660)**
3. For each SI engine the permittee shall keep in a satisfactory manner, records to demonstrate continuous compliance with operating limitations in SC III.1 and SC III.2. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(d), 40 CFR 63.6660)**
4. For each SI engine the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(e), 40 CFR 63.6660)**
5. For each SI engine the permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of demand response. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(f), 40 CFR 63.6660)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, for Stationary Reciprocating Spark Ignition Engines by the initial compliance date of October 19, 2013. **(40 CFR 63.6595(a)(1), 40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

**FGBOILERMACT
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Stoker/Sloped Grate/Other wet biomass/bio-based unit requirements for existing Boilers and Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. Additionally, Requirements for existing Gas 1, (Natural Gas only) for existing Boilers and Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD.

Emission Unit: EUTOH-WOOD , EUTOH-NG

POLLUTION CONTROL EQUIPMENT

Multiclone (EUTOH-WOOD)
 Dry Electrostatic Precipitator (EUTOH-WOOD)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. HCl	2-22.0 x 10-2 lb/MMBtu heat input	At all times except during startup and shutdown	EUTOH-WOOD	SC V.1 SC V.2 SC V.9	40 CFR 63.7500 Table 2.1a
2. Mercury	5-75.4 x 10-6 lb/MMBtu heat input	At all times except during startup and shutdown	EUTOH-WOOD	SC V.1 SC V.2 SC V.9	40 CFR 63.7500 Table 2.1.b
3. CO (or CEMS) Stokers/sloped grate/others designed to burn wet biomass fuel	4500-1100 ppmv, dry, @ 3% O2, or 720ppmv,dry,@ 3% O2, 30 day rolling avg.	At all times except during startup and shutdown	EUTOH-WOOD	SC V.1 SC V.2 SC V.9	40 CFR 63.7500 Table 2.7.a
4. Filterable PM or TSM Stokers/sloped grate/others designed to burn wet biomass fuel	3-73.4 x 10-2 lb/MMBtu heat input (PM) or 2-42.0 x 10-4 lb/MMBtu heat input(TSM)	At all times except during startup and shutdown	EUTOH-WOOD	SC V.1 SC V.2 SC V.9	40 CFR 63.7500 Table 2.7.b

Note: Emission limits apply only to those units with a heat input capacity of 10 MMBtu/hr or greater.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall only burn fuels in EUTOH-WOOD as allowed in the *Unit designed to burn biomass/bio-based solid subcategory* definition in 40 CFR 63.7575. **(40 CFR 63.7499(i) & (p))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

2. In EUTOH-NG the permittee shall only burn natural gas as defined in 40 CFR 63.7575. **(40 CFR 63.7499(l))**
3. For ETOH-WOOD the permittee must meet the requirements in paragraphs (a)(1) through (3) of 40 CFR 63.7500, as listed below, except as provided in paragraphs (b) through (e) of 40 CFR 63.7500, stated in SC III.2 through SC III.4. The permittee must meet these requirements at all times the affected unit is operating, except as provided in paragraph (f) of 40 CFR 63.7500, stated in SC III.4. **(40 CFR 63.7500(a))**
 - a. The permittee must meet each emission limit and work practice standard in Tables 2 and 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater, for each boiler or process heater at the source, except as provided under 40 CFR 63.7522. **(40 CFR 63.7500(a)(1))**
 - b. The permittee must meet each operating limit in Table 4 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater. If the permittee uses a control device or combination of control devices not covered in Table 4 of 40 CFR Part 63, Subpart DDDDD, or the permittee wishes to establish and monitor an alternative operating limit or an alternative monitoring parameter, the permittee must apply to the EPA Administrator for approval of alternative monitoring under 40 CFR 63.8(f). **(40 CFR 63.7500(a)(2))**
 - c. At all times, the permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490, stated in SC IX.1), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(3))**
4. As provided in 40 CFR 63.6(g), EPA may approve use of an alternative to the work practice standards in 40 CFR 63.7500 for EUTOH-WOOD. **(40 CFR 63.7500(b))**
5. For EUTOH-WOOD the permittee must conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.15., biennial performance tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.15., or 5-year performance tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.15. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in 40 CFR 63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in 40 CFR 63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. **(40 CFR 63.7515(d))**
6. For EUTOH-WOOD the permittee must meet the work practice standard according to Table 3 of 40 CFR Part 63, Subpart DDDDD. During startup and shutdown, the permittee must only follow the work practice standards according to item 5 of Table 3 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7530(h))**
7. For startup and shutdown of EUTOH-WOOD, the permittee must meet the work practice standards according to items 5 and 6 of Table 3 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7540(d))**
8. The permittee must meet the tune-up and Energy Assessment work practice standards for EUTOH-NG. **(40 CFR 63.7500(a)(1), 40 CFR Part 63, Subpart DDDDD, Table 3, Nos. 1-4)**
9. The permittee must operate and maintain EUTOH-NG in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(3))**
10. The permittee may obtain approval from the Administrator to use an alternative to the work practice standards noted in SC III.1 and/or SC III.13 for EUTOH-NG. **(40 CFR 63.7500(b))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

11. For EUTOH-NG the permittee must:
 - a. Complete a tune-up every 5 years (61 months) for boilers/process heaters less than or equal to 5 million Btu per hour. **(40 CFR 63.7500(e), 40 CFR 63.7515(d))**
 - b. Complete a tune-up every 2 years (25 months) for boilers greater than 5 million Btu per hour and less than 10 million Btu per hour. **(40 CFR 63.7500(e), 40 CFR 63.7515(d))**
 - c. Complete a tune-up annually (13 months) for boilers greater than 10 million Btu per hour. **(40 CFR 63.7540(a)(10), 40 CFR 63.7515(d))**
 - d. Conduct the tune-up within 30 calendar days of startup, if the unit is not operating on the required date for a tune-up. **(40 CFR 63.7540(a)(13))**
 - e. Follow the procedures described in SC IX 6.a through 6.f for all initial and subsequent tune ups. **(40 CFR 63.7540(a)(10), 40 CFR Part 63, Subpart DDDDD, Table 3)**
 - f. Complete the Initial tune ups on all affected units no later than January 31, 2016, except as provided in **40 CFR 63.7510(j)** and **40 CFR 63.7540(a)(13)**.

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For EUTOH-WOOD the permittee must demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or continuous monitoring systems (CMS), including a continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS), continuous parameter monitoring system (CPMS), or particulate matter continuous parameter monitoring system (PM CPMS), where applicable. The permittee may demonstrate compliance with the applicable emission limit for hydrogen chloride (HCl), mercury, or total selected metals (TSM) using fuel analysis if the emission rate calculated according to 40 CFR 63.7530(c) is less than the applicable emission limit. (For gaseous fuels, the permittee may not use fuel analyses to comply with the TSM alternative standard or the HCl standard.) Otherwise, the permittee must demonstrate compliance for HCl, mercury, or TSM using performance testing, if subject to an applicable emission limit listed in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.1 through SC I.4. **(40 CFR 63.7505(c))**
2. The permittee must conduct each performance test on EUTOH-WOOD according to the requirements in Table 5 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7520(b))**
3. The permittee must conduct all applicable performance tests for EUTOH-WOOD according to 40 CFR 63.7520, stated in SC V.3 and SC V.6 through SC V.10, on an annual basis, except as specified in paragraphs (b) through (e), (g), and (h) of 40 CFR 63.7515, stated in SC III.6, SC V.8 through SC V.14, and SC IX.6. Annual performance tests must be completed no more than 13 months after the previous performance test, except as specified in paragraphs (b) through (e), (g), and (h) of 40 CFR 63.7515, stated in SC V.4 through SC V.5, and SC IX.6. **(40 CFR 63.7515(a))**
4. If the performance tests of EUTOH-WOOD for a given pollutant for at least 2 consecutive years show that the emissions are at or below 75 percent of the emission limit (or, in limited instances as specified in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.1 through SC I.4, at or below the emission limit) for the pollutant, and if there are no changes in the operation of the individual boiler or process heater or air pollution control equipment that could increase emissions, the permittee may choose to conduct performance tests for the pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test. **(40 CFR 63.7515(b))**
5. If a performance test on EUTOH-WOOD shows emissions exceeded the emission limit or 75 percent of the emission limit (as specified in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.1 through SC I.4) for a pollutant, the permittee must conduct annual performance tests for that pollutant until all performance tests over

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

a consecutive 2-year period meet the required level (at or below 75 percent of the emission limit, as specified in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.1 through SC I.4). **(40 CFR 63.7515(c))**

6. The permittee must conduct all performance tests on EUTOH-WOOD according to 40 CFR 63.7(c), (d), (f), and (h). The permittee must also develop a site-specific stack test plan according to the requirements in 40 CFR 63.7(c). The permittee shall conduct all performance tests under such conditions as the Administrator specifies to the permittee based on the representative performance of each boiler or process heater for the period being tested. Upon request, the permittee shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. **(40 CFR 63.7520(a))**
7. The permittee must conduct each performance test on EUTOH-WOOD under the specific conditions listed in Tables 5 and 7 of 40 CFR Part 63, Subpart DDDDD. The permittee must conduct performance tests at representative operating load conditions while burning the type of fuel or mixture of fuels that has the highest content of chlorine and mercury, and TSM if the permittee is opting to comply with the TSM alternative standard and the permittee must demonstrate initial compliance and establish the operating limits based on these performance tests. These requirements could result in the need to conduct more than one performance test. Following each performance test and until the next performance test, the permittee must comply with the operating limit for operating load conditions specified in Table 4 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7520(c))**
8. The permittee must conduct a minimum of three separate test runs on EUTOH-WOOD for each performance test required in 40 CFR 63.7520, as specified in 40 CFR 63.7(e)(3). Each test run must comply with the minimum applicable sampling times or volumes specified in Table 2 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7520(d))**
9. To determine compliance with the emission limits on EUTOH-WOOD, the permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 at 40 CFR Part 60, Appendix A-7 to convert the measured particulate matter (PM) concentrations, the measured HCl concentrations, the measured mercury concentrations, and the measured TSM concentrations that result from the performance test to pounds per million Btu heat input emission rates. **(40 CFR 63.7520(e))**
10. Except for a 30-day rolling average based on CEMS (or sorbent trap monitoring system) data, if measurement results for any pollutant are reported as below the method detection level on EUTOH-WOOD (e.g., laboratory analytical results for one or more sample components are below the method defined analytical detection level), the permittee must use the method detection level as the measured emissions level for that pollutant in calculating compliance. The measured result for a multiple component analysis (e.g., analytical values for multiple Method 29 fractions both for individual HAP metals and for total HAP metals) may include a combination of method detection level data and analytical data reported above the method detection level. **(40 CFR 63.7520(f))**
11. If the permittee demonstrates compliance through performance testing on EUTOH-WOOD, the permittee must establish each site-specific operating limit in Table 4 of 40 CFR Part 63, Subpart DDDDD that applies according to the requirements in 40 CFR 63.7520, stated in SC V.6 through SC V.10, Table 7 of 40 CFR Part 63, Subpart DDDDD, and paragraph (b)(4) of 40 CFR 63.7530 as applicable. The permittee must also conduct fuel analyses according to 40 CFR 63.7521 and establish maximum fuel pollutant input levels according to paragraphs (b)(1) through (3) of 40 CFR 63.7530 as applicable. However, if the permittee switches fuel(s) and cannot show that the new fuel(s) does (do) not increase the chlorine, mercury, or TSM input into the unit through the results of fuel analysis, then the permittee must repeat the performance test to demonstrate compliance while burning the new fuel(s). **(40 CFR 63.7530(b))**
12. The permittee of an affected source must notify the AQD in writing of his or her intention to conduct a performance test at least 60 calendar days before the performance test is initially scheduled to begin on EUTOH-WOOD. The permittee shall submit two complete test protocols to the AQD, one to the Technical Programs Unit Supervisor and one to the District Supervisor for approval at least 30 days prior to the anticipated test date. The protocol shall describe the test method(s) and the maximum routine operating conditions, including targets for key operational parameters associated with air pollution control equipment to be monitored and recorded during testing. **(40 CFR 63.7(b)(1), R 336.2001(3))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

13. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor no less than 7 days prior to the anticipated test date. **(R 336.2001(4))**
14. The permittee shall submit two complete test reports of the test results to the AQD, one to the Technical Programs Unit Supervisor and one to the District Supervisor, within 60 days following the last date of the test. **(R 336.2001(5))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For EUTOH-WOOD if the permittee demonstrates compliance with any applicable emission limit through performance testing and subsequent compliance with operating limits (including the use of CPMS), or with a CEMS, or COMS, the permittee must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of 40 CFR 63.7505, as listed below, for the use of any CEMS, COMS, or CPMS. This requirement also applies to the permittee if the permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f). **(40 CFR 63.7505(d))**
 - a. For each CMS required in 40 CFR 63.7505 (including CEMS, COMS, or CPMS), the permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses design, data collection, and the quality assurance and quality control elements outlined in 40 CFR 63.8(d) and the elements described in paragraphs (d)(1)(i) through (iii) of 40 CFR 63.7505, as listed below. The permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the initial performance evaluation of the CMS. This requirement to develop and submit a site specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under Appendix B to Part 60 of 40 CFR and that meet the requirements of 40 CFR 63.7525, stated in SC VI.2 through SC VI.3. Using the process described in 40 CRFR 63.8(f)(4), the permittee may request approval of alternative monitoring system quality assurance and quality control procedures in place of those specified in this paragraph and, if approved, include the alternatives in the site-specific monitoring plan. **(40 CFR 63.7505(d)(1))**
 - i. Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). **(40 CFR 63.7505(d)(1)(i))**
 - ii. Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems. **(40 CFR 63.7505(d)(1)(ii))**
 - iii. Performance evaluation procedures and acceptance criteria (e.g., calibrations, accuracy audits, analytical drift). **(40 CFR 63.7505(d)(1)(iii))**
 - b. In the site-specific monitoring plan, the permittee must also address paragraphs (d)(2)(i) through (iii) of 40 CFR 63.7505, as listed below. **(40 CFR 63.7505(d)(2))**
 - i. Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii). **(40 CFR 63.7505(d)(2)(i))**
 - ii. Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR 63.8(d). **(40 CFR 63.7505(d)(2)(ii))**
 - iii. Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR 63.10(c) (as applicable in Table 10 of 40 CFR Part 63, Subpart DDDDD), (e)(1), and (e)(2)(i). **(40 CFR 63.7505(d)(2)(iii))**
 - c. The permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan. **(40 CFR 63.7505(d)(3))**
 - d. The permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. **(40 CFR 63.7505(d)(4))**
2. If the boiler or process heater is subject to a CO emission limit in Table 2 of 40 CFR Part 63, Subpart DDDDD, the permittee must install, operate, and maintain an oxygen analyzer system, as defined in 40 CFR 63.7575, or install, certify, operate and maintain continuous emission monitoring systems for CO and oxygen according to the procedures in paragraphs (a)(1) through (7) of 40 CFR 63.7525, as listed below. **(40 CFR 63.7525(a))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

- a. Install the CO CEMS and oxygen analyzer as specified in 40 CFR 63.6(i). The CO and oxygen levels shall be monitored at the same location at the outlet of the boiler or process heater. **(40 CFR 63.7525(a)(1))**
 - b. To demonstrate compliance with the applicable alternative CO CEMS emission standard listed in Table 2 of 40 CFR Part 63, Subpart DDDDD, the permittee must install, certify, operate, and maintain a CO CEMS and an oxygen analyzer according to the applicable procedures under Performance Specification 4, 4A, or 4B at 40 CFR Part 60, Appendix B, the site-specific monitoring plan developed according to 40 CFR 63.7505(d), stated in SC VI.1, and the requirements in 40 CFR 63.7540(a)(8), stated in paragraph (a) of 40 CFR 63.7525. Any boiler or process heater that has a CO CEMS that is compliant with Performance Specification 4, 4A, or 4B at 40 CFR Part 60, Appendix B, a site-specific monitoring plan developed according to 40 CFR 63.7505(d), stated in SC VI.1, and the requirements in 40 CFR 63.7540(a)(8), stated in paragraph (a) of 40 CFR 63.7525 must use the CO CEMS to comply with the applicable alternative CO CEMS emission standard listed in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.3. **(40 CFR 63.7525(a)(2))**
 - i. The permittee must conduct a performance evaluation of each CO CEMS according to the requirements in 40 CFR 63.8(e) and according to Performance Specification 4, 4A, or 4B at 40 CFR Part 60, Appendix B. **(40 CFR 63.7525(a)(2)(i))**
 - ii. During each relative accuracy test run of the CO CEMS, the permittee must collect emission data for CO concurrently (or within a 30- to 60-minute period) by both the CO CEMS and by Method 10, 10A, or 10B at 40 CFR Part 60, Appendix A-4. The relative accuracy testing must be at representative operating conditions. **(40 CFR 63.7525(a)(2)(ii))**
 - iii. The permittee must follow the quality assurance procedures (e.g., quarterly accuracy determinations and daily calibration drift tests) of Procedure 1 of Appendix F to 40 CFR Part 60. The measurement span value of the CO CEMS must be two times the applicable CO emission limit, expressed as a concentration. **(40 CFR 63.7525(a)(2)(iii))**
 - iv. Any CO CEMS that does not comply with 40 CFR 63.7525(a) cannot be used to meet any requirement in 40 CFR Part 63, Subpart DDDDD to demonstrate compliance with a CO emission limit listed in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.3. **(40 CFR 63.7525(a)(2)(iv))**
 - v. For an existing unit, complete the initial performance evaluation no later than July 29, 2016. **(40 CFR 63.7525(a)(2)(v))**
3. If the permittee has an applicable opacity operating limit in this rule, and is not otherwise required or elect to install and operate a PM CPMS, PM CEMS, or a bag leak detection system, the permittee must install, operate, certify and maintain each COMS according to the procedures in paragraphs (c)(1) through (7) of 40 CFR 63.7525. **(40 CFR 63.7525(c))**
- a. Each COMS must be installed, operated, and maintained according to Performance Specification 1 at Appendix B to Part 60 of 40 CFR. **(40 CFR 63.7525(c)(1))**
 - b. The permittee must conduct a performance evaluation of each COMS according to the requirements in 40 CFR 63.8(e) and according to Performance Specification 1 at Appendix B to Part 60 of 40 CFR. **(40 CFR 63.7525(c)(2))**
 - c. As specified in 40 CFR 63.8(c)(4)(i), each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. **(40 CFR 63.7525(c)(3))**
 - d. The COMS data must be reduced as specified in 40 CFR 63.8(g)(2). **(40 CFR 63.7525(c)(4))**
 - e. The permittee must include in the site-specific monitoring plan procedures and acceptance criteria for operating and maintaining each COMS according to the requirements in 40 CFR 63.8(d). At a minimum, the monitoring plan must include a daily calibration drift assessment, a quarterly performance audit, and an annual zero alignment audit of each COMS. **(40 CFR 63.7525(c)(5))**
 - f. The permittee must operate and maintain each COMS according to the requirements in the monitoring plan and the requirements of 40 CFR 63.8(e). The permittee must identify periods the COMS is out of control including any periods that the COMS fails to pass a daily calibration drift assessment, a quarterly performance audit, or an annual zero alignment audit. Any 6-minute period for which the monitoring system is out of control and data are not available for a required calculation constitutes a deviation from the monitoring requirements. **(40 CFR 63.7525(c)(6))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

- g. The permittee must determine and record all the 6-minute averages (and daily block averages as applicable) collected for periods during which the COMS is not out of control. **(40 CFR 63.7525(c)(7))**
4. For EUTOH-WOOD the permittee must monitor and collect data according to 40 CFR 63.7535 and the site-specific monitoring plan required by 40 CFR 63.7505(d), stated in SC VI.1. **(40 CFR 63.7535(a))**
5. The permittee must operate the monitoring system and collect data at all required intervals at all times that each boiler or process heater is operating and compliance is required, except for periods of monitoring system malfunctions or out of control periods (see 40 CFR 63.8(c)(7)), and required monitoring system quality assurance or control activities, including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable. **(40 CFR 63.7535(b))**
6. The permittee may not use data recorded during monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or control activities in data averages and calculations used to report emissions or operating levels. The permittee must record and make available upon request results of CMS performance audits and dates and duration of periods when the CMS is out of control to completion of the corrective actions necessary to return the CMS to operation consistent with the site-specific monitoring plan. The permittee must use all the data collected during all other periods in assessing compliance and the operation of the control device and associated control system. **(40 CFR 63.7535(c))**
7. Except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, system accuracy audits, calibration checks, and required zero and span adjustments), failure to collect required data is a deviation of the monitoring requirements. In calculating monitoring results, do not use any data collected during periods when the monitoring system is out of control as specified in the site-specific monitoring plan, while conducting repairs associated with periods when the monitoring system is out of control, or while conducting required monitoring system quality assurance or quality control activities. The permittee must calculate monitoring results using all other monitoring data collected while the process is operating. The permittee must report all periods when the monitoring system is out of control in the annual report. **(40 CFR 63.7535(d))**
8. The permittee must keep records according to paragraphs (a)(1) and (2) of 40 CFR 63.7555, as listed below. **(40 CFR 63.7555(a))**
 - a. A copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). **(40 CFR 63.7555(a)(1))**
 - b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). **(40 CFR 63.7555(a)(2))**
9. For each CEMS, COMS, and continuous monitoring system the permittee must keep records according to paragraphs (b)(1) through (5) of 40 CFR 63.7555, as listed below. **(40 CFR 63.7555(b))**
 - a. Records described in 40 CFR 63.10(b)(2)(vii) through (xi). **(40 CFR 63.7555(b)(1))**
 - b. Monitoring data for continuous opacity monitoring system during a performance evaluation as required in 40 CFR 63.6(h)(7)(i) and (ii). **(40 CFR 63.7555(b)(2))**
 - c. Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d)(3). **(40 CFR 63.7555(b)(3))**
 - d. Request for alternatives to relative accuracy test for CEMS as required in 40 CFR 63.8(f)(6)(i). **(40 CFR 63.7555(b)(4))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

- e. Records of the date and time that each deviation started and stopped. **(40 CFR 63.7555(b)(5))**
10. The permittee must keep the records required in Table 8 of 40 CFR Part 63, Subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits, such as opacity, pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit that applies to the permittee. **(40 CFR 63.7555(c))**
11. For each boiler or process heater subject to an emission limit in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.1 through SC I.4, the permittee must also keep the applicable records in paragraphs (d)(1) through (11) of 40 CFR 63.7555, as listed below. **(40 CFR 63.7555(d))**
- a. The permittee must keep records of monthly fuel use by each boiler or process heater, including the type(s) of fuel and amount(s) used. **(40 CFR 63.7555(d)(1))**
- b. If the permittee combusts non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1) and (2), the permittee must keep a record that documents how the secondary material meets each of the legitimacy criteria under 40 CFR 241.3(d)(1). If the permittee combusts a fuel that has been processed from a discarded non-hazardous secondary material pursuant to 40 CFR 241.3(b)(4), the permittee must keep records as to how the operations that produced the fuel satisfy the definition of processing in 40 CFR 241.2. If the fuel received a non-waste determination pursuant to the petition process submitted under 40 CFR 241.3(c), the permittee must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per 40 CFR 241.4, the permittee must keep records documenting that the material is listed as a non-waste under 40 CFR 241.4(a). Units exempt from the incinerator standards under section 129(g)(1) of the Clean Air Act because they are qualifying facilities burning a homogeneous waste stream do not need to maintain the records described in this paragraph (d)(2). **(40 CFR 63.7555(d)(2))**
- c. A copy of all calculations and supporting documentation of maximum chlorine fuel input, using Equation 7 of 40 CFR 63.7530 that were done to demonstrate continuous compliance with the HCl emission limit, for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of HCl emission rates, using Equation 12 of 40 CFR 63.7530 that were done to demonstrate compliance with the HCl emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum chlorine fuel input or HCl emission rates. The permittee can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, the permittee must calculate chlorine fuel input, or HCl emission rate, for each boiler and process heater. **(40 CFR 63.7555(d)(4))**
- d. A copy of all calculations and supporting documentation of maximum mercury fuel input, using Equation 8 of 40 CFR 63.7530 that were done to demonstrate continuous compliance with the mercury emission limit for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of mercury emission rates, using Equation 13 of 40 CFR 63.7530 that were done to demonstrate compliance with the mercury emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum mercury fuel input or mercury emission rates. The permittee can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, the permittee must calculate mercury fuel input, or mercury emission rates, for each boiler and process heater. **(40 CFR 63.7555(d)(5))**
- e. If, consistent with 40 CFR 63.7515(b), stated in SC V.4, the permittee chooses to stack test less frequently than annually, the permittee must keep a record that documents that the emissions in the previous stack test(s) were less than 75 percent of the applicable emission limit (or, in specific instances noted in Table 2 of 40 CFR Part 63, Subpart DDDD
- D, less than the applicable emission limit), and document that there was no change in source operations including fuel composition and operation of air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past year. **(40 CFR 63.7555(d)(6))**
- f. Records of the occurrence and duration of each malfunction of EUTOH-WOOD, or of the associated air pollution control and monitoring equipment. **(40 CFR 63.7555(d)(7))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

- g. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.7500(a)(3), stated in SC III.1, including corrective actions to restore EUTOH-WOOD, air pollution control, or monitoring equipment to its normal or usual manner of operation. **(40 CFR 63.7555(d)(8))**
 - h. A copy of all calculations and supporting documentation of maximum TSM fuel input, using Equation 9 of 40 CFR 63.7530 that were done to demonstrate continuous compliance with the TSM emission limit for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of TSM emission rates, using Equation 14 of 40 CFR 63.7530 that were done to demonstrate compliance with the TSM emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum TSM fuel input or TSM emission rates. The permittee can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, the permittee must calculate TSM fuel input, or TSM emission rates, for each boiler and process heater. **(40 CFR 63.7555(d)(9))**
 - i. The permittee must maintain records of the calendar date, time, occurrence and duration of each startup and shutdown of EUTOH-WOOD. **(40 CFR 63.7555(d)(10))**
 - j. The permittee must maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown of EUTOH-WOOD. **(40 CFR 63.7555(d)(11))**
12. The permittee must maintain records of the calendar date, time, occurrence and duration of each startup and shutdown. **(40 CFR 63.7555(i))**
13. The permittee must maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown. **(40 CFR 63.7555(j))**
14. Records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). **(40 CFR 63.7560(a))**
15. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**
16. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The permittee can keep the records off site for the remaining 3 years. **(40 CFR 63.7560(c))**

VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
- 2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
- 4. The permittee must meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545, both stated in SC VII.8 through SC VII.10 and in Subpart A of 40 CFR 63. **(40 CFR 63.7495(d))**
- 5. The permittee must report the results of performance tests and the associated fuel analyses within 60 days after the completion of the performance tests. This report must also verify that the operating limits for each boiler or process heater have not changed or provide documentation of revised operating limits established according to

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

40 CFR 63.7530 and Table 7 to 40 CFR Part 63, Subpart DDDDD, as applicable. The reports for all subsequent performance tests must include all applicable information required in 40 CFR 63.7550. **(40 CFR 63.7515(f))**

6. The permittee must report each instance in which the permittee did not meet each emission limit and operating limit in Tables 2 through 4 of 40 CFR Part 63, Subpart DDDDD that apply to the permittee. These instances are deviations from the emission limits or operating limits, respectively, in 40 CFR Part 63, Subpart DDDDD. These deviations must be reported according to the requirements in 40 CFR 63.7550, stated in SC VII.17 and SC VII.18. **(40 CFR 63.7540(b))**
7. The permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), and 40 CFR 63.9(b) through (h) that apply to the permittee by the dates specified. **(40 CFR 63.7545(a))**
8. If the permittee is required to conduct a performance test, the permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin. **(40 CFR 63.7545(d))**
9. If the permittee intends to commence or recommence combustion of solid waste, the permittee must provide 30 days prior notice of the date upon which the permittee will commence or recommence combustion of solid waste. The notification must identify:
 - a. The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) or process heater(s) that will commence burning solid waste, and the date of the notice. **(40 CFR 63.7545(g)(1))**
 - b. The currently applicable subcategories under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(g)(2))**
 - c. The date on which the permittee became subject to the currently applicable emission limits. **(40 CFR 63.7545(g)(3))**
 - d. The date upon which the permittee will commence combusting solid waste. **(40 CFR 63.7545(g)(4))**
(40 CFR 63.7545(g))
10. If the permittee has switched fuels or made a physical change to the boiler and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must provide notice of the date upon which the permittee switched fuels or made the physical change within 30 days of the switch/change. The notification must identify:
 - a. The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. **(40 CFR 63.7545(h)(1))**
 - b. The currently applicable subcategory under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(h)(2))**
 - c. The date upon which the fuel switch or physical change occurred. **(40 CFR 63.7545(h)(3))**
(40 CFR 63.7545(h))
11. The permittee must submit each report in Table 9 of 40 CFR Part 63, Subpart DDDDD that applies to the permittee. **(40 CFR 63.7550(a))**
12. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the permittee must submit each report, according to paragraph (h) of 40 CFR 63.7550, stated in SC VII. 19, by the date in Table 9 of 40 CFR Part 63, Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below. **(40 CFR 63.7550(b))**
 - a. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31. **(40 CFR 63.7550(b)(3))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

- b. Each subsequent compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4))**
13. A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule. **(40 CFR 63.7550(c))**
- a. If the facility is subject to the requirements of a tune up they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv) and (xiv) of 40 CFR 63.7550. **(40 CFR 63.7550(c)(1))**
- b. If a facility is complying with the fuel analysis the facility must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv), (vi), (x), (xi), (xiii), (xv) of 40 CFR 63.7550 and paragraph (d) of 40 CFR 63.7550. **(40 CFR 63.7550(c)(2))**
- c. If a facility is complying with the applicable emissions limit with performance testing they must submit a compliance report with the information in (c)(5)(i) through (iv), (vi), (vii), (ix), (xi), (xiii), (xv) of 40 CFR 63.7550 and paragraph (d) of 40 CFR 63.7550. **(40 CFR 63.7550(c)(3))**
- d. If a facility is complying with an emissions limit using a CMS the compliance report must contain the information required in paragraphs (c)(5)(i) through (vi), (xi), (xiii), and (xv) through (xvii) of 40 CFR 63.7550 and paragraph (e) of 40 CFR 63.7550. **(40 CFR 63.7550(c)(4))**
- e. 40 CFR 63.7550(c)(5) is as follows:
- i. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
- ii. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
- iii. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
- iv. The total operating time during the reporting period. **(40 CFR 63.7550(c)(5)(iv))**
- v. If the permittee uses a CMS, including CEMS, COMS, or CPMS, the permittee must include the monitoring equipment manufacturer(s) and model numbers and the date of the last CMS certification or audit. **(40 CFR 63.7550(c)(5)(v))**
- vi. The total fuel use by each individual boiler or process heater subject to an emission limit within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by the EPA or the basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure. **(40 CFR 63.7550(c)(5)(vi))**
- vii. If the permittee is conducting performance tests once every 3 years consistent with 40 CFR 63.7515(b) or (c), stated in SC V.4 or SC V.5, the date of the last 2 performance tests and a statement as to whether there have been any operational changes since the last performance test that could increase emissions. **(40 CFR 63.7550(c)(5)(vii))**
- viii. A statement indicating that the permittee burned no new types of fuel in an individual boiler or process heater subject to an emission limit. Or, if the permittee did burn a new type of fuel and is subject to a HCl emission limit, the permittee must submit the calculation of chlorine input, using Equation 7 of 40 CFR 63.7530 that demonstrates that the source is still within its maximum chlorine input level established during the previous performance testing (for sources that demonstrate compliance through performance testing) or the permittee must submit the calculation of HCl emission rate using Equation 12 of 40 CFR 63.7530 that demonstrates that the source is still meeting the emission limit for HCl emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If the permittee burned a new type of fuel and is subject to a mercury emission limit, the permittee must submit the calculation of mercury input, using Equation 8 of 40 CFR 63.7530 that demonstrates that the source is still within its maximum mercury input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or the permittee must submit the

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

calculation of mercury emission rate using Equation 13 of 40 CFR 63.7530 that demonstrates that the source is still meeting the emission limit for mercury emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If the permittee burned a new type of fuel and is subject to a TSM emission limit, the permittee must submit the calculation of TSM input, using Equation 9 of 40 CFR 63.7530 that demonstrates that the source is still within its maximum TSM input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or the permittee must submit the calculation of TSM emission rate, using Equation 14 of 40 CFR 63.7530 that demonstrates that the source is still meeting the emission limit for TSM emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). **(40 CFR 63.7550(c)(5)(viii))**

- ix. If the permittee wishes to burn a new type of fuel in an individual boiler or process heater subject to an emission limit and the permittee cannot demonstrate compliance with the maximum chlorine input operating limit using Equation 7 of 40 CFR 63.7530, or the maximum mercury input operating limit using Equation 8 of 40 CFR 63.7530, or the maximum TSM input operating limit using Equation 9 of 40 CFR 63.7530, the permittee must include in the compliance report a statement indicating the intent to conduct a new performance test within 60 days of starting to burn the new fuel. **(40 CFR 63.7550(c)(5)(ix))**
 - x. A summary of any monthly fuel analyses conducted to demonstrate compliance according to 40 CFR 63.7521 and 40 CFR 63.7530 for individual boilers or process heaters subject to emission limits, and any fuel specification analyses conducted according to 40 CFR 63.7521(f) **(40 CFR 63.7550(c)(5)(x))**
 - xi. If there are no deviations from any emission limits or operating limits in this subpart that apply to the permittee, a statement that there were no deviations from the emission limits or operating limits during the reporting period. **(40 CFR 63.7550(c)(5)(xi))**
 - xii. If there were no deviations from the monitoring requirements including no periods during which the CMSs, including CEMS, COMS, and CPMS, were out of control as specified in 40 CFR 63.8(c)(7), a statement that there were no deviations and no periods during which the CMS were out of control during the reporting period. **(40 CFR 63.7550(c)(5)(xii))**
 - xiii. If a malfunction occurred during the reporting period, the report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the permittee during a malfunction of a boiler, process heater, or associated air pollution control device or CMS to minimize emissions in accordance with 40 CFR 63.7500(a)(3), stated in SC III.1, including actions taken to correct the malfunction. **(40 CFR 63.7550(c)(5)(xiii))**
 - xiv. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), biennial tune-up according to 40 CFR 63.7540(a)(11), or 5-year tune-up according to 40 CFR 63.7540(a)(12). Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**
 - xv. If the permittee plans to demonstrate compliance by emission averaging, certify the emission level achieved or the control technology employed is no less stringent than the level or control technology contained in the notification of compliance status in 40 CFR 63.7545(e)(5)(i). **(40 CFR 63.7550(c)(5)(xv))**
14. For each deviation from an emission limit or operating limit in 40 CFR Part 63, Subpart DDDDD that occurs at an individual boiler or process heater where the permittee is not using a CMS to comply with that emission limit or operating limit, the compliance report must additionally contain the information required in paragraphs (d)(1) through (3) of 40 CFR 63.7550, as listed below. **(40 CFR 63.7550(d))**
- a. A description of the deviation and which emission limit or operating limit from which the permittee deviated. **(40 CFR 63.7550(d)(1))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

- b. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken. **(40 CFR 63.7550(d)(2))**
 - c. If the deviation occurred during an annual performance test, provide the date the annual performance test was completed. **(40 CFR 63.7550(d)(3))**
15. For each deviation from an emission limit, operating limit, and monitoring requirement in 40 CFR Part 63, Subpart DDDDD occurring at an individual boiler or process heater where the permittee is using a CMS to comply with that emission limit or operating limit, the compliance report must additionally contain the information required in paragraphs (e)(1) through (9) of 40 CFR 63.7550, as listed below. This includes any deviations from the site-specific monitoring plan as required in 40 CFR 63.7505(d), stated in SC VI.1. **(40 CFR 63.7550(e))**
- a. The date and time that each deviation started and stopped and description of the nature of the deviation (i.e., what the permittee deviated from). **(40 CFR 63.7550(e)(1))**
 - b. The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks. **(40 CFR 63.7550(e)(2))**
 - c. The date, time, and duration that each CMS was out of control, including the information in 40 CFR 63.8(c)(8). **(40 CFR 63.7550(e)(3))**
 - d. The date and time that each deviation started and stopped. **(40 CFR 63.7550(e)(4))**
 - e. A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period. **(40 CFR 63.7550(e)(5))**
 - f. A characterization of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes. **(40 CFR 63.7550(e)(6))**
 - g. A summary of the total duration of CMS's downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period. **(40 CFR 63.7550(e)(7))**
 - h. A brief description of the source for which there was a deviation. **(40 CFR 63.7550(e)(8))**
 - i. A description of any changes in CMSs, processes, or controls since the last reporting period for the source for which there was a deviation. **(40 CFR 63.7550(e)(9))**
16. The permittee must submit the reports according to the procedures specified in paragraphs (h)(1) through (3) of 40 CFR 63.7550, as listed below. **(40 CFR 63.7550(h))**
- a. Within 60 days after the date of completing each performance test (defined in 40 CFR 63.2) as required by 40 CFR Part 63, Subpart DDDDD the permittee must submit the results of the performance tests, including any associated fuel analyses, required by 40 CFR Part 63, Subpart DDDDD and the compliance reports required in 40 CFR 63.7550(b), stated in SC VII.24, to the EPA's WebFIRE database by using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). Performance test data must be submitted in the file format generated through use of the EPA's Electronic Reporting Tool (ERT) (see <http://www.epa.gov/ttn/chief/ert/index.html>). Only data collected using test methods on the ERT Web site are subject to this requirement for submitting reports electronically to WebFIRE. Owners or operators who claim that some of the information being submitted for performance tests is confidential business information (CBI) must submit a complete ERT file including information claimed to be CBI on a compact disk or other commonly used electronic storage media (including, but not limited to, flash drives) to the EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAPQS/CORE CBI Office, Attention: WebFIRE Administrator, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT file with the CBI omitted must be submitted to the EPA via CDX as described earlier in this paragraph. At the discretion of the Administrator, the permittee must also submit these reports, including the confidential business information, to the Administrator in the format specified by the Administrator. For any performance test conducted using test methods that are not listed on the ERT Web site, the owner or operator shall submit the results of the performance test in paper submissions to the Administrator. **(40 CFR 63.7550(h)(1))**
 - b. Within 60 days after the date of completing each CEMS performance evaluation test (defined in 40 CFR 63.2) the permittee must submit the relative accuracy test audit (RATA) data to the EPA's Central Data Exchange

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Field Code Changed

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

by using CEDRI as mentioned in paragraph (h)(1) of 40 CFR 63.7550. Only RATA pollutants that can be documented with the ERT (as listed on the ERT Web site) are subject to this requirement. For any performance evaluations with no corresponding RATA pollutants listed on the ERT Web site, the owner or operator shall submit the results of the performance evaluation in paper submissions to the Administrator. **(40 CFR 63.7550(h)(2))**

- c. The permittee must submit all reports required by Table 9 of 40 CFR Part 63, Subpart DDDDD electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report the permittee must submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. At the discretion of the Administrator, the permittee must also submit these reports, to the Administrator in the format specified by the Administrator. **(40 CFR 63.7550(h)(3))**

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VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. 40 CFR Part 63, Subpart DDDDD applies to existing affected sources as described in paragraph (a)(1) of 40 CFR 63.7490, as listed below. **(40 CFR 63.7490(a))**
 - a. The affected source of this subpart is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters within a subcategory as defined in 40 CFR 63.7575. **(40 CFR 63.7490(a)(1))**
2. A boiler or process heater exists if it is not new or reconstructed, as defined below. **(40 CFR 63.7490(d))**
 - a. A boiler or process heater is new if the permittee commences construction of the boiler or process heater after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commences construction. **(40 CFR 63.7490(b))**
 - b. A boiler or process heater is reconstructed if the permittee meets the reconstruction criteria as defined in 40 CFR 63.2, the permittee commences reconstruction after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commence reconstruction. **(40 CFR 63.7490(c))**
3. The permittee must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These limits apply at all times the affected unit is operating except for the periods noted in 40 CFR 63.7500(f), stated in SC III.4. **(40 CFR 63.7505(a))**
4. If EUTOH-WOOD(as defined in 40 CFR 63.7490, stated in SC IX.1) has not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, the permittee must complete the subsequent compliance demonstration no later than 180 days after the re-start of the affected source and according to the applicable provisions in 40 CFR 63.7(a)(2) as cited in Table 10 of 40 CFR Part 63, Subpart DDDDD. The permittee must complete a subsequent tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), and the schedule described in 40 CFR 63.7540(a)(13) for units that are not operating at the time of their scheduled tune-up. **(40 CFR 63.7515(g))**
5. The permittee must demonstrate continuous compliance with each emission limit in Table 2 of 40 CFR Part 63, Subpart DDDDD, stated in SC I.1 through SC I.4, the work practice standards in Table 3 of 40 CFR Part 63, Subpart DDDDD, and the operating limits in Table 4 of 40 CFR Part 63, Subpart DDDDD that applies according to the methods specified in Table 8 of 40 CFR Part 63, Subpart DDDDD and paragraphs (a)(1) through (19) of 40 CFR 63.7540. **(40 CFR 63.7540(a))**

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

6. Table 10 of 40 CFR Part 63, Subpart DDDDD shows which parts of the General Provisions in 40 CFR 63.1 through 40 CFR 63.15 applies to the permittee. **(40 CFR 63.7565)**
7. The permittee must demonstrate continuous compliance with the tune-up requirement for EUTOH-NG by completing the following: **(40 CFR 63.7540(a))**
 - a. Inspect the burner, and clean or replace any components of the burner as necessary (the permittee may perform the burner inspection any time prior to tune-up or delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**
 - b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**
 - c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. **(40 CFR 63.7540(a)(10)(iii))**
 - d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
 - e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**
 - f. Maintain on-site and submit, if requested by the Administrator, the most recent periodic report containing the information as listed below. **(40 CFR 63.7540(a)(10)(vi))**
 - g. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**
 - h. A description of any corrective actions taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**
 - i. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**

Footnotes:

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

²This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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

RCO, RTO, and baghouse dust collectors.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

<u>Material</u>	<u>Limit</u>	<u>Time Period / Operating Scenario</u>	<u>Equipment</u>	<u>Monitoring / Testing Method</u>	<u>Underlying Applicable Requirements</u>
<u>1. Finished Product (OSB)</u>	<u>310,000 tons per year</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGFACILITY</u>	<u>SC VI.2</u>	<u>R 336.1205, R 336.1225, R 336.1702(a), 40 CFR 52.21(i)</u>
<u>2. Finished Product (Siding)</u>	<u>250,000 tons per year</u>	<u>12-month rolling time period as determined at the end of each calendar month</u>	<u>FGFACILITY</u>	<u>SC VI.2</u>	<u>R 336.1205, R 336.1225, R 336.1702(a)</u>

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

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

1. The permittee shall keep records of fugitive dust control activities and dates carried out per a AQD approved Fugitive Dust Control Plan. (R 336.1205, R 336.1371, R 336.1372)
2. The permittee shall keep, in a satisfactory manner, monthly and previous 12-month rolling production records as required in SC I.1 and SC I.2. All records shall be kept on file for a period of at least five years and made available to the Department upon request. (R 336.1205(1)(a) and (3), 40 CFR 52.21(i))
3. The permittee shall keep records of the Inspection and Maintenance Program specified in SC IX.2, including records of inspections done, problems found, repairs completed and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices. (R 336.1201(3))

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VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. Permittee shall implement and maintain the Fugitive Dust Control Plan as specified in Appendix 3 to limit all fugitive dust emissions from the roadways, the material storage piles, stockpile areas, and other operations throughout the plant. (R 336.1201, R 336.1371, 40 CFR 52.21)
2. The permittee shall carry out an Inspection and Maintenance Program, including the keeping of a daily log or checklists, for all air cleaning devices to assure that the air cleaning devices are maintained and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control Rules and existing law. The permittee shall keep records of the Inspection and Maintenance Program including records of problems found, repairs done and/or corrective action taken, and scheduled and completed maintenance on the air cleaning devices. (R 336.1301, R 336.1331, R 336.1910)
3. The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart DDDD—National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products. (40 CFR Part 63, Subpart DDDD)

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ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that no non-applicable requirements have been identified for incorporation into the permit shield provision set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii).

APPENDICES

Appendix 1. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO ₂ e	Carbon Dioxide Equivalent
CFR	Code of Federal Regulations	dscf	Dry standard cubic foot
COM	Continuous Opacity Monitoring	dscm	Dry standard cubic meter
Department/ department	Michigan Department of Environmental Quality	°F	Degrees Fahrenheit
EU	Emission Unit	gr	Grains
FG	Flexible Group	HAP	Hazardous Air Pollutant
GACS	Gallons of Applied Coating Solids	Hg	Mercury
GC	General Condition	hr	Hour
GHGs	Greenhouse Gases	HP	Horsepower
HVLP	High Volume Low Pressure*	H ₂ S	Hydrogen Sulfide
ID	Identification	kW	Kilowatt
IRSL	Initial Risk Screening Level	lb	Pound
ITSL	Initial Threshold Screening Level	m	Meter
LAER	Lowest Achievable Emission Rate	mg	Milligram
MACT	Maximum Achievable Control Technology	mm	Millimeter
MAERS	Michigan Air Emissions Reporting System	MM	Million
MAP	Malfunction Abatement Plan	MW	Megawatts
MDEQ	Michigan Department of Environmental Quality	NMOC	Non-methane Organic Compounds
MSDS	Material Safety Data Sheet	NO _x	Oxides of Nitrogen
NA	Not Applicable	ng	Nanogram
NAAQS	National Ambient Air Quality Standards	PM	Particulate Matter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM ₁₀	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM _{2.5}	Particulate Matter equal to or less than 2.5 microns in diameter
NSR	New Source Review	pph	Pounds per hour
PS	Performance Specification	ppm	Parts per million
PSD	Prevention of Significant Deterioration	ppmv	Parts per million by volume
PTE	Permanent Total Enclosure	ppmw	Parts per million by weight
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO ₂	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds

ROP No: MI-ROP-N1315-2018
Expiration Date: December 21, 2023
PTI No: MI-PTI-N1315-2018

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

Appendix 2. Schedule of Compliance

The permittee certified in the ROP application that this stationary source is in compliance with all applicable requirements and the permittee shall continue to comply with all terms and conditions of this ROP. A Schedule of Compliance is not required. (R 336.1213(4)(a), R 336.1119(a)(ii))

Appendix 3. Monitoring Requirements

Permittee shall implement a Fugitive Dust Control Plan to include but not be limited to the following:

- a. A representative of the Sagola environmental department will conduct a weekly inspection of the grounds; this will be documented with a checklist. The checklist is located in the Sagola OSB "Air Pollution Control Equipment Inspection and Maintenance Document" kept in the Plant Environmental Manager's Office.
- b. The doors on the fire and ash dumps will be kept closed whenever they are not being emptied. Also, the adjacent area will be kept relatively clean and free of flake(s), fines and ash.
- c. All ash and fines shall be stored, removed and handled in a manner that minimizes the introduction of it to the ambient air. Fines will be mixed and stored with wet bark if it is necessary to remove it from the fire dump. Ash will not be transported to the storage area during high wind conditions and will be wetted before transport.
- d. The pavement will be swept routinely to reduce fugitive dust. This will be documented in the log yard logbook.
- e. The bark hog area will be cleaned routinely to reduce fugitive dust. The covers will be closed on all conveyors. Catwalks will be kept clean and bark socks must be intact.
- f. All material spills will be cleaned up as soon as possible to prevent its release into the ambient air.
- g. The traffic area of the log yard will be watered as needed. This will be documented in the log yard logbook. Personnel working outside will assess the need and initiate watering as needed.
- h. No open burning shall be allowed on plant property except as allowed in Rule 310.

Appendix 4. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 5. Testing Procedures

Specific testing requirement plans, procedures, and averaging times are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 6. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-N1315-2013. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (*). Those revision applications not listed with an asterisk were processed prior to this renewal.

ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
148-13	NA	Increase opacity limits on EUPRESS and FGDRYERS from 5% to 20%	EUPRESS FGDRYERS

Appendix 7. Emission Calculations

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in **FG-DRYERS Emissions**.

FG-DRYERS Emissions

Emission Calculation Method:

FG-DRYERS NOx, CO, and VOC emission rates are based on tested emission factors and AP-42 emission factors, in pounds per ton finished product (lb/TFP). The emission factors are multiplied by the respective amount of softwood and hardwood utilized, in TFP. The dryers are permitted for both hardwood and softwood. Because it is not reasonable to assume 100 percent utilization of softwood under the current operating scenario, a calculated emission factor, using the amount of hardwood and softwood and their respective emission factors, will be used to determine compliance with the emission limits. If tested emission factors are lower than those listed in this section, the test emissions factors may be used in the calculations.

Calculation for NOx emissions:

$\frac{EF_{\text{hardwood}} \text{ (lb/TFP)}}{EF_{\text{softwood}} \text{ (lb/TFP)}}$	=	0.62 lb per ton finished product, for hardwood, 1.24 lbs per ton finished product, for softwood
Annual FG-DRYERS NOx emissions (tons/12 month rolling time period as determined at the end of each calendar month)	=	$\frac{\sum_{i=1}^{12} (EF_{\text{hardwood}} * TFP_{\text{hardwood}}) + (EF_{\text{softwood}} * TFP_{\text{softwood}})}{2000}$ <p>TFP_{Hardwood} = the amount of hardwood dried in FG-DRYER during calendar month i, in Tons Finished Product TFP_{Softwood} = the amount of softwood dried in FG-DRYER during calendar month i, in Tons Finished Product.</p>

Calculation for CO emissions:

$\frac{EF_{\text{hardwood}} \text{ (lb/TFP)}}{EF_{\text{softwood}} \text{ (lb/TFP)}}$	=	3.64 lbs per ton finished product, for hardwood, 4.39 lbs per ton finished product, for softwood,
Annual FG-DRYERS CO emissions (tons/12 month rolling time period as determined at the end of each calendar month)	=	$\frac{\sum_{i=1}^{12} (EF_{\text{hardwood}} * TFP_{\text{hardwood}}) + (EF_{\text{softwood}} * TFP_{\text{softwood}})}{2000}$ <p>TFP_{Hardwood} = the amount of hardwood dried in FG-DRYER during calendar month i, in Tons Finished Product</p>

ROP No: MI-ROP-N1315-2018
 Expiration Date: December 21, 2023
 PTI No: MI-PTI-N1315-2018

$TFP_{Softwood}$ = the amount of softwood dried in FG-DRYER during calendar month i, in Tons Finished Product.

Calculation for VOC emissions:

$EF_{hardwood}$ (lb/TFP) $EF_{softwood}$ (lb/TFP)	=	0.29 lbs per ton finished product, for hardwood, 0.37 lbs per ton finished product, for softwood,
Annual FG-DRYERS VOC emissions (tons/12 month rolling time period as determined at the end of each calendar month)	=	$\frac{\sum_{i=1}^{12} (EF_{hardwood} * TFP_{hardwood}) + (EF_{softwood} * TFP_{softwood})}{2000}$ <p> $Hardwood_{Percent}$ = the percentage of hardwood being dried in FG-DRYER at the time of the stack test $Softwood_{Percent}$ = the percentage of softwood being dried in FG-DRYER at the time of the stack test </p>

Appendix 8. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use the MDEQ, AQD, Report Certification form (EQP 5736) and MDEQ, AQD, Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative formats must meet the provisions of Rule 213(4)(c) and Rule 213(3)(c)(i), respectively, and be approved by the AQD District Supervisor.

B. Other Reporting

Specific reporting requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, Part B of this appendix is not applicable.