

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

January 9, 2015

**PERMIT TO INSTALL
30-11B**

**ISSUED TO
PWGG, LLC**

**LOCATED AT
6900 West Baseline Road
Lake Isabella, Michigan**

**IN THE COUNTY OF
Isabella**

**STATE REGISTRATION NUMBER
P0215**

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

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: December 18, 2014	
DATE PERMIT TO INSTALL APPROVED: January 9, 2015	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

Section	Page
Alphabetical Listing of Common Abbreviations / Acronyms	2
General Conditions	3
Special Conditions	5
Emission Unit Summary Table.....	5
Special Conditions for EUDRYER	6
Flexible Group Summary Table	10
FGMATERIAL	11
Special Conditions for FGWOODPELLETS.....	14

Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	BTU	British Thermal Unit
BACT	Best Available Control Technology	°C	Degrees Celsius
CAA	Clean Air Act	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
CO ₂ e	Carbon Dioxide Equivalent	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H ₂ S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	kW	Kilowatt
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	PM with aerodynamic diameter ≤10 microns
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	PM with aerodynamic diameter ≤ 2.5 microns
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonably Available Control Technology	scf	Standard cubic feet
ROP	Renewable Operating Permit	sec	Seconds
SC	Special Condition	SO ₂	Sulfur Dioxide
SCR	Selective Catalytic Reduction	THC	Total Hydrocarbons
SRN	State Registration Number	tpy	Tons per year
TAC	Toxic Air Contaminant	µg	Microgram
TEQ	Toxicity Equivalence Quotient	VOC	Volatile Organic Compound
VE	Visible Emissions	yr	Year

* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

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 Environmental Quality, 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 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 R 336.1219 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 R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(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 R 336.1301, 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 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 R 336.1370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

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 (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUCHIPPER	An electric wood chipper used to reduce the size of wood material.	March 2014	FGWOODPELLETS
EUDRYER	A 30 MMBtu per hour natural gas fired burner with an 8 ton per hr (5.0 ODT/hr) rotary dryer that will dry virgin softwood chips. Softwood is defined as containing a minimum of 70% softwood and a maximum of 30% hardwood. The dryer is controlled by a high efficiency cyclone.	June 2011/ January 2015	FGWOODPELLETS
EUHAMMERMILL	A hammer mill used to pulverize the wood chips, which is controlled by a baghouse.	June 2011	FGMATERIAL FGWOODPELLETS
EUPELLETMILL	The pellet mill extrudes the wood pellets from the wood chips, which is controlled by a baghouse.	June 2011	FGMATERIAL FGWOODPELLETS
EUCOOLER	A cooler which cools the wood pellets after extrusion, which is controlled by a baghouse.	June 2011	FGMATERIAL FGWOODPELLETS
EUBAGGING	The bagging operation bags the chips after they are cooled, which is controlled by a baghouse.	June 2011	FGMATERIAL FGWOODPELLETS
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 336.1290.			

The following conditions apply to: EUDRYER

DESCRIPTION: A 30 MMBtu per hour natural gas fired burner with an 8 ton per hr (5.0 ODT/hr) rotary dryer that will dry virgin softwood chips. Softwood is defined containing a minimum of 70% softwood and a maximum of 30% hardwood. The dryer is controlled by a high efficiency cyclone.

Flexible Group ID: FGWOODPELLETS

POLLUTION CONTROL EQUIPMENT: High Efficiency Cyclone

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Visible Emissions	20 percent opacity	6-minute average except one 6-minute average per hour of not more than 27 percent	EUDRYER	SC V.1, SC VI.2	R 336.1301(1)(c)
2. PM	0.10 lb per 1000 lb of exhaust gases calculated on a "dry" gas basis	Test protocol*	EUDRYER	GC 13	R 336.1331(1)(a)
3. PM10	7.61 pph	Test protocol*	EUDRYER	GC 13	R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
4. PM2.5	7.61 pph	Test protocol*	EUDRYER	GC 13	R 336.2804, 40 CFR 52.21 (d)
5. NOx	2.3 pph	Test protocol*	EUDRYER	GC 13	R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
6. CO	16.5 pph	Test protocol*	EUDRYER	SC V.1	R 336.2804, 40 CFR 52.21(d)
8. VOC (as propane)	20.4 pph	Test protocol*	EUDRYER	SC V.1	R 336.1702(a)
10. Formaldehyde ¹ (CAS 50-00-0)	0.8 pph	Test protocol*	EUDRYER	SC V.1	R 336.1224, R 336.1225

*Test protocol shall specify averaging time.

II. MATERIAL LIMITS

1. The permittee shall only combust natural gas in the burner of EUDRYER. (R 336.1205(1)(a), R 336.1224, R 336.1702, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))
2. The permittee shall only process virgin softwood chips in EUDRYER. (R 336.1224, R 336.1702, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))
3. The permittee shall not process more than 8 tons per hour of green softwood through EUDRYER. (R 336.1205(3), R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d))
4. The moisture content of the softwood chips fed into EUDRYER shall not exceed 50 percent by weight. (R 336.1225, R 336.1702, R 336.1901)

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUDRYER unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the process and emission control equipment, has been submitted within 90 days of permit issuance for AQD District Supervisor review and approval, 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 336.1224, R 336.1331, R 336.1702(a), R 336.1910, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

2. The permittee shall not operate EUDRYER unless an acceptable plan that describes how emissions will be minimized during all startups and shutdowns has been submitted to the AQD District Supervisor for review and approval within 90 days after the issuance of this permit, and is implemented and maintained. The plan shall incorporate procedures recommended by the equipment manufacturer, if available, as well as incorporating standard industry practices. **(R 336.1911, R 336.1912)**
3. The temperature at the inlet of EUDRYER shall not exceed 850 degrees Fahrenheit. **(R 336.1225, R 336.1702, R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The maximum design fuel input capacity of burner portion of EUDRYER shall not exceed 0.03 MMSCF per hour on a fuel input basis, as certified by the equipment manufacturer. **(R 336.1205(1)(a), R 336.1224, R 336.1702, R 336.1901)**
2. The permittee shall not operate EUDRYER unless the high efficiency cyclone is installed, maintained, and operated in a satisfactory manner. Satisfactory manner includes operating and maintaining each control device in accordance with an approved MAP for EUDRYER as required in SC III.1. **(R 336.1301, R 336.1331, R 336.1901, R 336.1910, R 336.1911)**

V. TESTING/SAMPLING

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

1. Upon request from the AQD District Supervisor, the permittee may be required to verify visible emissions, CO, VOC, and formaldehyde concentrations from EUDRYER by testing at owner's expense, in accordance with Department requirements. 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. The permittee shall submit a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1301, R 336.1702(a), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations/records in a format acceptable to the AQD District Supervisor and make them available by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1225, R 336.1301, R 336.1331, R 336.1702, R 336.1901, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
2. The permittee shall conduct daily visible emissions observations, either by a certified or a non-certified reader, as required in Emission Limit SC I.1. The permittee shall initiate corrective action upon observation of visible emissions. Records shall include the visible emissions observations (date, time, name of reader, whether the reader is certified or not), causes of abnormal opacity, corrective actions, and the results of such actions. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **(R 336.1301, R 336.1331, R 336.1910)**
3. The permittee shall monitor and record the moisture content of the softwood chips fed into EUDRYER, on a daily basis, in a manner as approved by the AQD Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1225, R 336.1702, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
4. The permittee shall monitor and record, the tons per hour of green softwood chips processed in EUDRYER, in a manner as approved by the AQD Supervisor. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1225, R 336.1331, R 336.1702, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
5. The permittee shall install, calibrate, maintain and operate, in a satisfactory manner, a device to monitor the temperature at the inlet of EUDRYER on a continuous basis. The permittee will operate a set point shut off on the control panel set at 850 degrees Fahrenheit which will use the monitor at the inlet of the dryer. **(R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
6. The permittee shall keep a record of the fan setting and resultant air flow of EUDRYER in a manner acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
7. The permittee shall monitor and record the hourly fuel consumption rate for the burner portion of EUDRYER on an hourly basis. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a), R 336.1224, R 336.1702, R 336.1901)**
8. The permittee shall keep records of the type and quantity of softwood and hardwood received at the facility on a daily basis. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1702, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVDRYER	57	54.3	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

NA

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
FGMATERIAL	Each emission unit for material handling which includes one hammer mill, material conveyance, one cooler, one pellet mill, and one bagging operation.	EUHAMMERMILL EUCOOLER EUPELLETMILL EUBAGGING
FGWOODPELLETS	Each emission unit at the wood pelletizing facility which includes the dryer, the hammer mill, material conveyance, the cooler, the pellet mill, and the bagging operation.	EUCHIPPER EUDRYER EUHAMMERMILL EUCOOLER EUPELLETMILL EUBAGGING

The following conditions apply to: FGMATERIAL

DESCRIPTION: Each emission unit for material handling which includes one hammer mill, material conveyance, one cooler, one pellet mill, and one bagging operation.

Emission Unit ID: EUHAMMERMILL, EUCOOLER, EUPELLETMILL, EUBAGGING

POLLUTION CONTROL EQUIPMENT: Baghouse

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Opacity	10 percent	6-minute average except one 6-minute average per hour of not more than 27 percent	FGMATERIAL	SC V.1, SC VI.2	R 336.1301(1)(c)
2. PM	0.016 lb per 1000 lb of exhaust gases calculated on a "dry" gas basis	Test Protocol	FGMATERIAL	SC V.1	R 336.1331(1)(c)
3. PM10	0.82 pph	Test Protocol	FGMATERIAL	SC V.1	R 336.1205(1)(a), R 336.2803, R 336.2804, 40 CFR 52.21 (c) & (d)
4. PM2.5	0.82 pph	Test Protocol	FGMATERIAL	SC V.1	R 336.1205(1)(a), R 336.2804, 40 CFR 52.21 (d)

II. MATERIAL LIMITS

NA

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate FGMATERIAL unless a malfunction abatement plan (MAP) as described in Rule 911(2), for the process and emission control equipment, has been submitted within 90 days of permit issuance for AQD District Supervisor review and approval, 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 336.1301, R 336.1331, R 336.1910, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate FGMATERIAL unless the baghouse is installed, maintained, and operated in a satisfactory manner. Satisfactory manner includes operating and maintaining each control device in accordance with an approved MAP for FGMATERIAL as required in SC III.1. **(R 336.1301, R 336.1331, R 336.1901, R 336.1910, R 336.1911)**

V. TESTING/SAMPLING

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

1. Upon request from the AQD District Supervisor, the permittee may be required to verify opacity, PM, PM10, and PM2.5 emission rates from FGMATERIAL by testing at owner's expense, in accordance with Department requirements. 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. The permittee shall submit a complete report of the test results to the AQD within 60 days following the last date of the test. **(R 336.1301, R 336.1331, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations/records in a format acceptable to the AQD District Supervisor and make them available by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205, R 336.1331, R 336.1910, R 336.1911, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**
2. The permittee shall install, calibrate, maintain and operate, in a satisfactory manner, a device to monitor and record the pressure drop across the baghouse. The device shall be equipped with an audible alarm that will sound when the pressure drop is below the minimum level as specified in an approved MAP as required in SC III.1. **(R 336.1331, R 336.1910, R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

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

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVMATERIAL	12 X 32	35	R 336.1225, R 336.1901, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

1.
NA

Footnotes:

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

The following conditions apply Source-Wide to: FGWOODPELLETS

DESCRIPTION: Each emission unit at the wood pelletizing facility which includes the dryer, the hammer mill, material conveyance, the cooler, the pellet mill, and the bagging operation.

Emission Unit ID: EUDRYER, EUHAMMERMILL, EUCOOLER, EUPELLETMILL, EUBAGGING

I. EMISSION LIMITS

NA

II. MATERIAL LIMITS

1. The permittee shall not process through FGWOODPELLETS, more than 60,387 tons of green softwood chips per year on a 12-month rolling time period basis as determined at the end of each calendar month. **(R 336.1205(3))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate FGWOODPELLETS unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, the storage pile and all material handling operations has been submitted to the AQD District Supervisor within 60 days after the issuance of this permit, and is implemented and maintained. The plan shall identify the specific measures to be taken to prevent fugitive dust and the frequency of these measures. In addition, the permittee shall record the number of raw material and product trucks which are at the facility on a daily basis. **(R 336.1372, Act 451 324.5524)**
2. The permittee shall not keep a raw wood chip material storage pile on site, for more than three days per calendar week. At no time may the storage pile be in place for longer than three consecutive days. **(R 336.1901)**
3. The permittee shall not operate FGWOODPELLETS, more than 7,488 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. **(R 336.1205(3))**

IV. DESIGN/EQUIPMENT PARAMETERS

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 complete all required calculations/records in a format acceptable to the AQD District Supervisor and make them available by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(3))**

2. The permittee shall monitor and record in a satisfactory manner, the amount of greenwood chips processed in tons for FGWOODPELLETS on a monthly and a 12-month rolling time period as determined at the end of each calendar month. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(3))**
3. The permittee shall monitor and record in a satisfactory manner, the hours of operation for FGWOODPELLETS on a monthly and a 12-month rolling time period basis as determined at the end of each calendar month. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(3))**
4. The permittee shall keep records of the date raw wood chip material is delivered to the facility for the storage pile and the date that the storage pile is exhausted, to demonstrate compliance with SC III.2. The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1901)**

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

NA

Footnotes:

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