

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

July 31, 2017

**PERMIT TO INSTALL**  
88-13B

**ISSUED TO**  
Abbott Nutrition

**LOCATED AT**  
901 North Centerville Road  
Sturgis, Michigan

**IN THE COUNTY OF**  
Saint Joseph

**STATE REGISTRATION NUMBER**  
A6380

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:

**June 15, 2017**

DATE PERMIT TO INSTALL APPROVED:

**July 31, 2017**

SIGNATURE:

DATE PERMIT VOIDED:

SIGNATURE:

DATE PERMIT REVOKED:

SIGNATURE:

## PERMIT TO INSTALL

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**Common Abbreviations / Acronyms**

<b>Common Acronyms</b>		<b>Pollutant / Measurement Abbreviations</b>	
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 <sub>2e</sub>	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 <sub>2</sub> 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 <sub>x</sub>	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	PM10	Particulate Matter equal to or less than 10 microns in diameter
NSPS	New Source Performance Standards	PM2.5	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 <sub>2</sub>	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
		yr	Year

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

<b>Emission Unit ID</b>	<b>Emission Unit Description (Process Equipment &amp; Control Devices)</b>	<b>Installation Date / Modification Date</b>	<b>Flexible Group ID</b>
EUBLR04	Natural gas and fuel oil fired boiler with a maximum capacity of 98 MMBTU per hour. Equipped with low NOx burners and flue gas recirculation.	06/01/1994	FGBOILERS
EUBLR05	Natural gas and fuel oil fired boiler with a maximum capacity of 98 MMBTU per hour. Equipped with low NOx burners and flue gas recirculation.	10/14/2003	FGBOILERS
EUBLRTEMP	Natural gas and diesel-fired temporary boiler with a maximum fuel usage of 99,900 scf/hr and 675 gal/hr, respectively. Equipped with low NOx burners and flue gas recirculation.	TBD	FGBOILERS
EUDRY03	Nutritional products spray dryer including four cyclones integral for product recovery. Controlled by a wet scrubber with mist eliminator.	01/01/1964 10/20/1993	FGDRYERS
EUDRY04	Nutritional products spray dryer including five cyclones integral for product recovery. Controlled by two wet scrubbers operating in parallel each with a mist eliminator. The Dryer Main scrubber exhausts to SVDRY04a & Dryer FB scrubber (installed in 2006) exhausts to SVDRY04b.	04/01/1982 07/31/1995 06/2006 Date of PTI	FGDRYERS
EUSCB01	Venturi-type wet scrubber for material dump station PIF No. 1.	07/01/1989 11/30/1994	FGSCB0108
EUSCB02	Venturi-type wet scrubber for material dump station PIF No. 2.	07/01/1989 11/30/1994	FGSCB0108
EUSCB03	Venturi-type wet scrubber for material dump station Tank No. 24.	07/01/1989 11/30/1994	FGSCB0108
EUSCB04	Venturi-type wet scrubber for material dump station Tank No. 25.	07/01/1989 11/30/1994	FGSCB0108
EUSCB05	Venturi-type wet scrubber for material dump station Tribler-Fristan.	07/01/1989 11/30/1994	FGSCB0108
EUSCB06	Venturi-type wet scrubber for material dump station Tank No. 64.	02/01/1991 11/30/1994	FGSCB0108
EUSCB08	Venturi-type wet scrubber for material dump station Casein.	07/01/1987 11/30/1994	FGSCB0108
EUWWPTS	Dual single-bed carbon adsorption system for odor control on exhaust from two influent equalization tanks & one sludge storage tank in the WW pretreatment system.	02/22/2011	NA
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: EUBLR04**

**DESCRIPTION:** Natural gas and fuel oil fired boiler with a maximum capacity of 98 MMBTU per hour. Equipped with low NOx burners and flue gas recirculation.

**Flexible Group ID:** FGBOILERS

**POLLUTION CONTROL EQUIPMENT:** Low NOx burners and flue gas recirculation.

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	0.08 lb/MMBTU when firing natural gas	Test Protocol*	EUBLR04	GC 13	R 336.1205(1)(a)
2. NOx	7.84 pph when firing natural gas	Hourly	EUBLR04	GC 13	R 336.1205(1)(a)
3. NOx	0.14 lb/MMBTU when firing fuel oil	Test Protocol*	EUBLR04	GC 13	R 336.1205(1)(a)
4. NOx	13.72 pph when firing fuel oil	Hourly	EUBLR04	GC 13	R 336.1205(1)(a)
5. PM	2.22 pph	Hourly	EUBLR04	GC 13	R 336.1331(1)(c)
6. SO <sub>2</sub>	4.79 pph	Hourly	EUBLR04	GC 13	R 336.1205(1)(a), R 336.1402(1), 40 CFR 60.42c(d)

\*Test Protocol shall specify averaging time.

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Fuel Oil	0.05% Sulfur	As calculated on the basis of 140,000 BTU per gallon of liquid fuel	EUBLR04	SC VI.2	R 336.1205(1)(a), R 336.1402(1), 40 CFR 60.42c(d), 40 CFR 60.43c(e)(4)

2. The permittee shall only burn natural gas or fuel oil in EUBLR04. **(R 336.1205(1)(a), R 336.1331(1)(c), R 336.1402(1))**

**III. PROCESS/OPERATIONAL RESTRICTIONS**

- The permittee shall not fire natural gas and fuel oil simultaneously in EUBLR04, except as may be routinely necessary during changeover from one fuel to the other. **(R 336.1205(1)(a))**
- The permittee shall perform routine preventative maintenance on EUBLR04 at least once each calendar year. Routine maintenance shall include calibration of all controls, gauges, and monitors. **(R 336.1910)**
- The permittee shall also perform the routine preventative maintenance in SC III.2 when abnormal visible emissions are observed. **(R 336.1910)**

4. The permittee shall maintain and operate EUBLR04 according to the procedures outlined in the approved preventative maintenance plan. **(R 336.1910)**

#### **IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate EUBLR04 unless the low NOx burners and flue gas recirculation are installed, maintained, and operated in a satisfactory manner. **(R 336.1205(1)(a), R 336.1910)**

#### **V. TESTING/SAMPLING**

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

NA

#### **VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall monitor and record the natural gas and fuel oil consumption rates from EUBLR04 for each calendar month. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1205(1)(a), 40 CFR 60.48c(g)(2))**
2. The permittee shall keep records of the maximum sulfur content in the fuel oil for each delivery. Records of certification must also contain the name of the supplier and a statement from the supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1205(1)(a) & (b), 40 CFR 60.42c(h)(1), 40 CFR 60.48c(f)(1))**
3. The permittee shall keep a record of the measures taken and results of implementing the Preventative Maintenance Program. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1910)**

#### **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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVBLR04	42.0	60.0	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Dc, as they apply to EUBLR04. **(40 CFR Part 60 Subparts A & Dc)**
2. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63 Subparts A and JJJJJJ, as they apply to EUBLR04. **(40 CFR Part 63 Subparts A & JJJJJJ)**

**Footnotes:**

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

**The following conditions apply to: EUBLR05**

**DESCRIPTION:** Natural gas and fuel oil fired boiler with a maximum capacity of 98 MMBTU per hour. Equipped with low NOx burners and flue gas recirculation.

**Flexible Group ID:** FGBOILERS

**POLLUTION CONTROL EQUIPMENT:** Low NOx burners and flue gas recirculation.

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	0.08 lb/MMBTU when firing natural gas	Test Protocol*	EUBLR05	GC 13	R 336.1205(1)(a) & (b)
2. NOx	7.84 pph when firing natural gas	Hourly	EUBLR05	GC 13	R 336.1205(1)(a) & (b)
3. NOx	0.14 lb/MMBTU when firing fuel oil	Test Protocol*	EUBLR05	GC 13	R 336.1205(1)(a) & (b)
4. NOx	13.72 pph when firing fuel oil	Hourly	EUBLR05	GC 13	R 336.1205(1)(a) & (b)
5. PM	2.22 pph	Hourly	EUBLR05	GC 13	R 336.1331(1)(c)
6. SO <sub>2</sub>	4.79 pph	Hourly	EUBLR05	GC 13	R 336.1205(1)(a) & (b), R 336.1402(1), 40 CFR 60.42c(d)

\*Test Protocol shall specify averaging time.

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Fuel Oil	0.05% Sulfur	As calculated on the basis of 140,000 BTU per gallon of liquid fuel	EUBLR05	SC VI.2	R 336.1205(1)(a) & (b), R 336.1402(1), 40 CFR 60.42c(d), 40 CFR 60.43c(e)(4)

2. The permittee shall only burn natural gas or fuel oil in EUBLR05. **(R 336.1205(1)(a) & (b), R 336.1331(1)(c), R 336.1402(1))**

**III. PROCESS/OPERATIONAL RESTRICTIONS**

- The permittee shall not fire natural gas and fuel oil simultaneously in EUBLR05, except as may be routinely necessary during changeover from one fuel to the other. **(R 336.1205(1)(a) & (b))**
- The permittee shall perform routine preventative maintenance on EUBLR05 at least once each calendar year. Routine maintenance shall include calibration of all controls, gauges, and monitors. **(R 336.1910)**
- The permittee shall also perform the routine preventative maintenance in III.2 on EUBLR05 when abnormal visible emissions are observed. **(R 336.1910)**

4. The permittee shall maintain and operate EUBLR05 according to the procedures outlined in the approved preventative maintenance plan. **(R 336.1910)**

#### **IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate EUBLR05 unless the low NOx burners and flue gas recirculation are installed, maintained, and operated in a satisfactory manner. **(R 336.1205(1)(a) & (b), R 336.1910)**

#### **V. TESTING/SAMPLING**

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

NA

#### **VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall monitor and record the natural gas and fuel oil consumption rates from EUBLR05 for each calendar month. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1205(1)(a) & (b), 40 CFR 60.48c(g)(2))**
2. The permittee shall keep records of the maximum sulfur content in the fuel oil for each delivery. Records of certification must also contain the name of the supplier and a statement from the supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1205(1)(a) & (b), 40 CFR 60.42c(h)(1), 40 CFR 60.48c(f)(1))**
3. The permittee shall keep a record of the measures taken and results of implementing the Preventative Maintenance Program. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1910)**

#### **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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVBLR05	42.0	60.0	R 336.1225, 40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Dc, as they apply to EUBLR05. **(40 CFR Part 60 Subparts A & Dc)**
2. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63 Subparts A and JJJJJJ, as they apply to EUBLR05. **(40 CFR Part 63 Subparts A & JJJJJJ)**

**Footnotes:**

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

**The following conditions apply to: EUBLRTEMP**

**DESCRIPTION:** Natural gas and diesel-fired temporary boiler with a maximum fuel usage of 99,900 scf/hr and 675 gal/hr, respectively. Equipped with low NOx burners and flue gas recirculation.

**Flexible Group ID:** FGBOILERS

**POLLUTION CONTROL EQUIPMENT:** Low NOx burners and flue gas recirculation.

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx	48.0 lb/MMscf	Test Protocol*	EUBLRTEMP	GC 13, SC VI.5	40 CFR 52.21(c) & (d)
2. NOx	18.5 lb/1,000 gallons	Test Protocol*	EUBLRTEMP	GC 13, SC VI.5	40 CFR 52.21(c) & (d)
3. NOx	9.9 tpy	12-month rolling time period as determined at the end of each calendar month	EUBLRTEMP	SC VI.4	R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d)

\*Test Protocol shall specify averaging time.

**II. MATERIAL LIMITS**

1. The permittee shall only burn natural gas or ultra-low sulfur diesel in EUBLRTEMP. **(R 336.1205(1)(a) & (3), R 336.1224, R 336.1225, R 336.1401, R 336.1702(a), 40 CFR 52.21(c) & (d))**
2. The maximum design fuel input for EUBLRTEMP shall not exceed 99,900 scf per hour while burning natural gas. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
3. The maximum design fuel input for EUBLRTEMP shall not exceed 675 gal per hour while burning ultra-low sulfur diesel. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
4. The maximum natural gas usage for EUBLRTEMP shall not exceed 412 MMcf per year on a 12-month rolling time period basis as determined at the end of each calendar month. The maximum ultra-low sulfur diesel usage for EUBLRTEMP shall not exceed 1,069,000 gal per year on a 12-month rolling time period basis as determined at the end of each calendar month. When burning both fuels in a 12-month rolling time period, the following equation shall be used to determine maximum allowed fuel usages:

$$\text{NOx Emission Rate in tpy} = (48/2000)*N + (18.5/2000)*D$$

Where N is the natural gas usage in MMscf per 12-month rolling time period and D is the ultra-low sulfur diesel usage in 1,000 gallons per 12-month rolling time period. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

#### **IV. DESIGN/EQUIPMENT PARAMETERS**

1. The permittee shall not operate EUBLRTEMP unless the low NO<sub>x</sub> burners and flue gas recirculation are installed, maintained, and operated in a satisfactory manner. **(R 336.1205(1)(a) & (3), R 336.1910, 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 natural gas usage rate when in operation for EUBLRTEMP on a continuous basis. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
3. The permittee shall install, calibrate, maintain, and operate, in a satisfactory manner, a device to monitor and record the ultra-low sulfur diesel usage rate when in operation for EUBLRTEMP on a continuous basis. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**

#### **V. TESTING/SAMPLING**

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

NA

#### **VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
2. The permittee shall keep, in a format acceptable to the AQD District Supervisor, monthly and 12-month rolling natural gas usage records in million cubic feet for EUBLRTEMP. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
3. The permittee shall keep, in a format acceptable to the AQD District Supervisor, monthly and 12-month rolling ultra-low sulfur diesel usage records in gallons for EUBLRTEMP. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
4. The permittee shall calculate and keep, in a satisfactory manner, monthly and 12-month rolling NO<sub>x</sub>, mass emission records for EUBLRTEMP, as required by SC I.3. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**
5. The permittee shall keep, in a satisfactory manner, records from the vendor of the maximum design fuel input for natural gas and ultra-low sulfur diesel, and records from the vendor that the boiler demonstrates compliance with the emission limits in SC I.1 and/or SC I.2, for each boiler brought on site during a rolling five year period. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (3), 40 CFR 52.21(c) & (d))**

#### **VII. REPORTING**

1. The permittee shall provide written notification of when the boiler is placed at the site to demonstrate the temporary status of EUBLRTEMP. The permittee shall submit this notification to the AQD District Supervisor within 15 days of placement or removal. **(40 CFR Part 60 Subpart Dc, 40 CFR Part 63 Subpart JJJJJJ)**

2. The permittee shall provide written notification of when the boiler is removed from the site and how long it was on-site to demonstrate the temporary status of EUBLRTEMP. The permittee shall submit this notification to the AQD District Supervisor within 15 days of placement or removal. **(40 CFR Part 60 Subpart Dc, 40 CFR Part 63 Subpart JJJJJJ)**

**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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVBLRTEMP	52	24.25	R 336.1225, 40 CFR 52.2(c) & (d)

**IX. OTHER REQUIREMENTS**

1. In the event that a boiler complying with EUBLRTEMP is removed from this location, the permittee may install and operate a boiler complying with EUBLRTEMP at this location pursuant to this Permit to Install. **(R 336.1205, 40 CFR Part 60 Subpart Dc, 40 CFR Part 63 Subpart JJJJJJ)**
2. If EUBLRTEMP remains on-site for more than 180 consecutive days, the permittee shall comply with the applicable provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and Dc, as they apply to EUBLRTEMP. **(40 CFR Part 60 Subparts A & Dc)**
3. If EUBLRTEMP remains on-site for more than 12 consecutive months, the permittee shall comply with the applicable provisions of the federal National Emissions Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63 Subparts A and DDDDD, as they apply to EUBLRTEMP. **(40 CFR Part 63 Subpart JJJJJJ)**

**Footnotes:**

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

**The following conditions apply to: EUWWPTS**

**DESCRIPTION:** Duall single-bed carbon adsorption system for odor control on exhaust from two influent equalization tanks & one sludge storage tank in the WW pretreatment system.

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT:** Duall single-bed carbon adsorption system.

**I. EMISSION LIMITS**

NA

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall maintain and operate EUWWPTS according to the procedures outlined in the preventative maintenance plan that has been approved by the AQD District Supervisor. **(R 336.1224, R 336.1225, R 336.1901, R 336.1910)**

**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 monitor and record all operation and maintenance activities in accordance with the preventative maintenance plan for EUWWPTS. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1901, R 336.1910)**
2. The permittee shall monitor and record any carbon change-outs for EUWWPTS. The records shall be kept at the facility and made available to the Department upon request. **(R 336.1224, R 336.1225, R 336.1901, R 336.1910)**

**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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVWWPTS	10.75	22.1	R 336.1225, R 336.1901

**IX. OTHER REQUIREMENTS**

NA

**Footnotes:**

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

**FLEXIBLE GROUP SUMMARY TABLE**

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

<b>Flexible Group ID</b>	<b>Flexible Group Description</b>	<b>Associated Emission Unit IDs</b>
FGBOILERS	Boilers that generate steam for process equipment.	EUBLR04, EUBLR05, EUBLRTEMP
FGDRYERS	Nutritional products spray dryers including cyclones integral for product recovery.	EUDRY03, EUDRY04
FGSCB0108	Material dump stations each controlled by a venturi-type wet scrubber.	EUSCB01, EUSCB02, EUSCB03, EUSCB04, EUSCB05, EUSCB06, EUSCB08
FGFACILITY	All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	NA

**The following conditions apply to: FGBOILERS**

**DESCRIPTION:** Boilers that generate steam for process equipment.

**Emission Units:** EUBLR04, EUBLR05, EUBLRTEMP

**POLLUTION CONTROL EQUIPMENT:** Low NOx burners and flue gas recirculation.

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	16.3 tpy	12-month rolling time period as determined at the end of each calendar month	FGBOILERS	SC VI.2, SC VI.3	R 336.1205(3)
2. NOx	Less than 90 tpy	12-month rolling time period as determined at the end of each calendar month	FGBOILERS	SC VI.2, SC VI.3	R 336.1205(3)
3. SO <sub>2</sub>	68.8 tpy	12-month rolling time period as determined at the end of each calendar month	FGBOILERS	SC VI.2, SC VI.3	R 336.1205(3)
4. CO	76.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGBOILERS	SC VI.2, SC VI.3	R 336.1205(3)
5. CO <sub>2e</sub>	87,562 tpy	12-month rolling time period as determined at the end of each calendar month	FGBOILERS	SC VI.2, SC VI.3	R 336.1205(3)

**II. MATERIAL LIMITS**

Material	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Fuel	1,071,435 MMBTU/yr	12-month rolling time period as determined at the end of each calendar month	FGBOILERS	SC VI.2	R 336.1205(1)(a) & (b)

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

**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 in a format acceptable to the AQD District Supervisor by the 30<sup>th</sup> 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 keep, in a format acceptable to the AQD District Supervisor, total combined calendar month and 12-month rolling fuel usage records in MMBTU for FGBOILERS. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(1)(a) & (b))**
3. The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period PM, NO<sub>x</sub>, SO<sub>2</sub>, CO, and CO<sub>2e</sub> emission calculations for the previous year for FGBOILERS, as required by SC I.1, SC I.2, SC I.3, SC I.4, and SC I.5. The permittee shall use a calculation method as described in Appendix 1. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1205(1)(a))**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

NA

**Footnotes:**

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

**The following conditions apply to: FGDRYERS**

**DESCRIPTION:** Nutritional products spray dryers including cyclones integral for product recovery.

**Emission Units:** EUDRY03, EUDRY04

**POLLUTION CONTROL EQUIPMENT:** Wet impingement scrubbers each with a water based mist eliminator.

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.042 lb/1,000 lb of exhaust gases*	Instantaneous	EUDRY03	GC 13, SC VI.3, SC VI.4, SC VI.5	R 336.1331(1)(c)
2. PM	4.5 pph*	Hourly	EUDRY03	GC 13, SC VI.3, SC VI.4, SC VI.5	R 336.1331(1)(c)
3. PM	0.015 lb/1,000 lb of exhaust gases*	Instantaneous	EUDRY04: Dryer Main – SVDRY04a	GC 13, SC VI.3, SC VI.4, SC VI.5	R 336.1331(1)(c)
4. PM10	3.7 pph	Hourly	EUDRY04: Dryer Main – SVDRY04a	GC 13, SC VI.3, SC VI.4, SC VI.5	40 CFR 52.21(c) & (d)
5. PM10	16.2 tpy	Annual	EUDRY04: Dryer Main – SVDRY04a	SC VI.2	R 336.1205, 40 CFR 52.21(c) & (d)
6. PM	0.010 lb/1,000 lb of exhaust gases*	Instantaneous	EUDRY04: Dryer FB – SVDRY04b	GC 13, SC VI.3, SC VI.4, SC VI.5	R 336.1331(1)(c), 40 CFR 52.21(c) & (d)
7. PM10	0.6 pph	Hourly	EUDRY04: Dryer FB – SVDRY04b	GC 13, SC VI.3, SC VI.4, SC VI.5	40 CFR 52.21(c) & (d)
8. PM10	2.6 tpy	Annual	EUDRY04: Dryer FB – SVDRY04b	SC VI.2	R 336.1205, 40 CFR 52.21(c) & (d)
9. Visible Emissions	10% opacity	6-minute average	FGDRYERS	SC VI.5	R 336.1301, R 336.1301(1)(c)

\*Calculated on a dry gas basis.

**II. MATERIAL LIMITS**

NA

### **III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall not operate EUDRY03 unless the associated product recovery cyclones and scrubber with mist eliminator pads are operating properly. **(R 336.1910)**
2. The permittee shall not operate EUDRY04 unless the associated product recovery cyclones and scrubber with mist eliminator pads are installed, maintained and operating properly. **(R 336.1910)**
3. The permittee shall perform routine preventative maintenance on the wet scrubbers at least once per calendar month. The permittee shall also conduct an annual cleaning of the scrubbers, including a visible inspection to ensure that the screens and/or plates are properly cleaned. **(R 336.1910)**
4. The permittee shall also perform routine preventative maintenance on the appropriate unit, including its cyclone and the wet impingement scrubber, when the differential pressure drop across a scrubber reaches 0 inches of water or is greater than 5.0 inches of water, or when abnormal visible emissions are observed on that unit. **(R 336.1910)**
5. The permittee shall maintain and operate FGDRYERS according to the procedures outlined in the approved preventative maintenance plan. **(R 336.1910)**

### **IV. DESIGN/EQUIPMENT PARAMETERS**

1. EUDRY03 shall be equipped with four product recovery cyclones and a wet impingement scrubber with a mist eliminator system. **(R 336.1205, R 336.1331, R 336.1910)**
2. EUDRY04 shall be equipped with five product recovery cyclones followed by two wet impingement scrubbers installed in parallel each equipped with mist eliminator control. **(R 336.1205, R 336.1331, R 336.1910)**
3. Each scrubber shall be equipped with liquid flow indication and measurement devices. **(R 336.1910)**
4. Each scrubber shall be equipped with a pressure differential gauge. **(R 336.1910)**

### **V. TESTING/SAMPLING**

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

NA

### **VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1), 40 CFR 52.21(c) & (d))**
2. The permittee shall calculate and keep, in a satisfactory manner, annual PM10 mass emission records for Dryer Main and Dryer FB of EUDRY04, as required by SC I.5 and SC I.8. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205, 40 CFR 52.21(c) & (d))**
3. The permittee shall monitor and record the pressure drop across each scrubber/mist eliminator at least once per calendar day. These records shall be maintained on-site and made available to Department personnel upon request. **(R 336.1910)**
4. The permittee shall monitor and record the liquid flow rate through each scrubber at least once per calendar day. These records shall be maintained on-site and made available to Department personnel upon request. **(R 336.1910)**

5. The permittee shall perform and record the results of a weekly visible emission observation performed on FGDRYERS during peak operating conditions. These records shall be maintained on-site and made available to Department personnel upon request. **(R 336.1301)**
6. The permittee shall keep a record of the measures taken and results of implementing the Preventative Maintenance Program. These records shall be maintained on-site and made available to Department personnel upon request. **(R 336.1910)**

**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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVDRY03	44.0	88.0	40 CFR 52.21(c) & (d)
2. SVDRY04a	71	148.5	40 CFR 52.21(c) & (d)
3. SVDRY04b	18.0	130	40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

NA

**Footnotes:**

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

**The following conditions apply to: FGSCB0108**

**DESCRIPTION:** Material dump stations each controlled by a venturi-type wet scrubber.

**Emission Units:** EUSCB01, EUSCB02, EUSCB03, EUSCB04, EUSCB05, EUSCB06, EUSCB08

**POLLUTION CONTROL EQUIPMENT:** Venturi-type wet scrubbers, one for each station.

**I. EMISSION LIMITS**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. VE	5% opacity	6-minute average	Each unit of FGSCB0108	SC VI.2	R 336.1301(1)(c)
2. PM	0.04 lb/1000 lb exhaust gases <sup>a</sup>	Instantaneous	EUSCB01	SC VI.1, SC VI.2	R 336.1331(1)(c)
3. PM	0.223 pph	Hourly	EUSCB01	SC VI.1, SC VI.2	R 336.1331(1)(c)
4. PM	0.04 lb/1000 lb exhaust gases <sup>a</sup>	Instantaneous	EUSCB02	SC VI.1, SC VI.2	R 336.1331(1)(c)
5. PM	0.223 pph	Hourly	EUSCB02	SC VI.1, SC VI.2	R 336.1331(1)(c)
6. PM	0.001 lb/1000 lb exhaust gases <sup>a</sup>	Instantaneous	EUSCB03	GC 13, SC VI.1, SC VI.2	R 336.1331(1)(c)
7. PM	0.009 pph	Hourly	EUSCB03	GC 13, SC VI.1, SC VI.2	R 336.1331(1)(c)
8. PM	0.001 lb/1000 lb exhaust gases <sup>a</sup>	Instantaneous	EUSCB04	GC 13, SC VI.1, SC VI.2	R 336.1331(1)(c)
9. PM	0.009 pph	Hourly	EUSCB04	GC 13, SC VI.1, SC VI.2	R 336.1331(1)(c)
10. PM	0.10 lb/1000 lb exhaust gases <sup>a</sup>	Instantaneous	EUSCB05	SC VI.1, SC VI.2	R 336.1331(1)(c)
11. PM	0.475 pph	Hourly	EUSCB05	SC VI.1, SC VI.2	R 336.1331(1)(c)
12. PM	0.001 lb/1000 lb exhaust gases <sup>a</sup>	Instantaneous	EUSCB06	GC 13, SC VI.1, SC VI.2	R 336.1331(1)(c)
13. PM	0.009 pph	Hourly	EUSCB06	GC 13, SC VI.1, SC VI.2	R 336.1331(1)(c)
14. PM	0.01 lb/1000 lb exhaust gases <sup>a</sup>	Instantaneous	EUSCB08	SC VI.1, SC VI.2	R 336.1331(1)(c)
15. PM	0.059 pph	Hourly	EUSCB08	SC VI.1, SC VI.2	R 336.1331(1)(c)

<sup>a</sup>Calculated on a dry gas basis.

## **II. MATERIAL LIMITS**

NA

## **III. PROCESS/OPERATIONAL RESTRICTIONS**

1. The permittee shall not operate each of the emission units listed in FGSCB0108 unless the venturi-type wet scrubber for each individual emission unit is operating properly. **(R 336.1910)**
2. The permittee shall perform routine preventative maintenance on each venturi-type wet scrubber once each calendar year. Routine maintenance shall include annual cleaning of each scrubber and a visual inspection of each scrubber to ensure that it is properly cleaned. **(R 336.1910)**
3. The permittee shall also perform the above routine preventative maintenance on FGSCB0108, including each venturi-type wet scrubber when the liquid flow indicator indicates no flow or when abnormal visible emissions are observed. **(R 336.1910)**
4. The permittee shall maintain and operate FGSCB0108 according to the procedures outlined in the approved preventative maintenance plan. **(R 336.1910)**

## **IV. DESIGN/EQUIPMENT PARAMETERS**

1. Each emission unit included in FGSCB0108 shall be equipped with a venturi-type wet scrubber. **(R 336.1331(1)(c), R 336.1910)**
2. Each scrubber shall be equipped with a liquid flow indicator. **(R 336.1910)**

## **V. TESTING/SAMPLING**

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

NA

## **VI. MONITORING/RECORDKEEPING**

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

1. The permittee shall verify the liquid flow through each scrubber, while operating, on a daily basis. **(R 336.1910)**
2. The permittee shall record the results of a weekly visible emission observation taken from each stack for each emission unit included in FGSCB0108 during peak operating conditions. If a stack is in compliance with SC I.1 for 6 months, then the permittee may monitor visible emissions from that stack a minimum of once per month. If during the monthly monitoring, the permittee observes visible emissions in excess of SC I.1, the permittee shall take weekly visible emission observation for the next two months for that stack. The permittee shall submit any request for a change in the monitoring frequency to the AQD District Supervisor for review and approval. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301(1)(c))**
3. The permittee shall keep a record of the measures taken and the results of implementing the Preventative Maintenance Program. These records shall be maintained on-site and made available to Department personnel upon request. **(R 336.1910)**

**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:

<b>Stack &amp; Vent ID</b>	<b>Maximum Exhaust Diameter/Dimensions (inches)</b>	<b>Minimum Height Above Ground (feet)</b>	<b>Underlying Applicable Requirements</b>
1. SVSCB01	9.0	47.0	40 CFR 52.21(c) & (d)
2. SVSCB02	9.0	47.0	40 CFR 52.21(c) & (d)
3. SVSCB03	9.0	47.0	40 CFR 52.21(c) & (d)
4. SVSCB04	9.0	47.0	40 CFR 52.21(c) & (d)
5. SVSCB05	9.0	47.0	40 CFR 52.21(c) & (d)
6. SVSCB06	9.0	57.0	40 CFR 52.21(c) & (d)
7. SVSCB08	9.0	59.0	40 CFR 52.21(c) & (d)

**IX. OTHER REQUIREMENTS**

NA

**Footnotes:**

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

**The following conditions apply Source-Wide to: FGFACILITY**

**POLLUTION CONTROL EQUIPMENT:** NA

**I. EMISSION LIMITS**

<b>Pollutant</b>	<b>Limit</b>	<b>Time Period / Operating Scenario</b>	<b>Equipment</b>	<b>Testing / Monitoring Method</b>	<b>Underlying Applicable Requirements</b>
1. PM	Less than 90 tpy*	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
2. NOx	Less than 90 tpy*	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
3. SO <sub>2</sub>	Less than 90 tpy*	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
4. CO	Less than 90 tpy*	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
5. CO <sub>2e</sub>	Less than 90,000 tpy*	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
6. VOCs	Less than 90 tpy*	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
7. Each Individual HAP	Less than 9 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)
8. Aggregate HAPs	Less than 22.5 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC VI.1	R 336.1205(1)(a) & (3)

\*The enforceable restrictions that are associated with SC I.1 through SC I.6 are found in the following emission unit and flexible group conditions: EUBLR04 SC II.1, EUBLR05 SC II.1, FGBOILERS SC II.1, and FGSCB0108 SC III.4.

**II. MATERIAL LIMITS**

NA

**III. PROCESS/OPERATIONAL RESTRICTIONS**

NA

**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 in a format acceptable to the AQD District Supervisor by the 30<sup>th</sup> day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1205(1)(a) & (3))**
2. The permittee shall calculate and keep, in a satisfactory manner, monthly and 12-month rolling total PM, NO<sub>x</sub>, SO<sub>2</sub>, CO, CO<sub>2e</sub>, and VOC mass emission records for FGFACILITY, as required by SC I.1 through SC I.6. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (3))**
3. The permittee shall calculate and keep, in a satisfactory manner, monthly and 12-month rolling individual and aggregate HAP mass emission records for FGFACILITY, as required by SC I.7 and SC I.8. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1205(1)(a) & (3))**

**VII. REPORTING**

NA

**VIII. STACK/VENT RESTRICTIONS**

NA

**IX. OTHER REQUIREMENTS**

NA

### **APPENDIX 1: Procedures for Calculating Pollutant Emissions**

The permittee shall demonstrate compliance with the pollutant emission limits by keeping track of all fuel usage for the applicable equipment and multiplying that fuel usage by an equipment-specific emission factor. The emission factors are typically expressed as the mass of pollutant per unit of fuel.

The permittee shall use emission factors contained in the most recent AP-42 (Compilation of Air Pollutant Emission Factors) or the most recent FIRE (Factor Information Retrieval) database if vendor or stack testing data is not available. If emission factors from other sources are used, the permittee shall obtain the approval of the AQD District Supervisor before using the emission factors to calculate emissions.

The permittee shall document the source of each emission factor used in the calculations.