MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

June 15, 2015

PERMIT TO INSTALL

92-15

ISSUED TO

Burnette Foods, Inc. - New Era Facility

LOCATED AT

4856 First Street New Era, Michigan

IN THE COUNTY OF

Oceana

STATE REGISTRATION NUMBER

A5711

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: May 22, 2015		
DATE PERMIT TO INSTALL APPROVED: June 15, 2015	SIGNATURE:	
DATE PERMIT VOIDED:	SIGNATURE:	
DATE PERMIT REVOKED:	SIGNATURE:	

PERMIT TO INSTALL

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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	СО	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.
- 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
EU-FLARE	One (1) enclosed flare to combust biogas produced by the anaerobic digester at a food processing facility.	TBD	N/A
EU-UASB-SCRUBBER	An odor control unit which utilizes carbon filtration to remove hydrogen sulfide and odors of the preacidification/equalization tank at a food processing facility.	TBD	N/A
EU-WWTP-SCRUBBER	An odor control unit which utilizes a bleach tank to remove odors of the wastewater treatment plant at a food processing facility.	11-01-2012	N/A

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: EU-FLARE

<u>DESCRIPTION</u>: One (1) enclosed flare to combust biogas produced by the anaerobic digester at a food processing facility.

Flexible Group ID: N/A

POLLUTION CONTROL EQUIPMENT: Biogas Flare

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
Sulfur Dioxide	30.0 tpy	12-month rolling time period as determined at the end of each calendar month		GC 13, SC VI.2	R 336.1205, R 336.1225, 40 CFR 52.21(c) and (d)

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EU-FLARE unless a malfunction abatement plan (MAP) as described in Rule 911(2), for EU-FLARE, has been submitted within 30 days of permit issuance, and is implemented and maintained. 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 336.1205, R 336.1225, R 336.1910, R 336.1911, 40 CFR 52.21(c) and (d))

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, a device to monitor and record the volumetric flow rate of digester gas burned in EU-FLARE, on a continuous basis. (R 336.1205, R 336.1225)

V. TESTING/SAMPLING

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

1. Within 180 days of start-up of EU-FLARE, the permittee shall verify the hydrogen sulfide (CAS No. 7783-06-4) content of the digester gas burned in EU-FLARE using a method acceptable to the AQD. The permittee shall repeat testing at least once every six (6) months thereafter. (R 336.1205, R 336.1225, 40 CFR 52.21(c) and (d))

VI. MONITORING/RECORDKEEPING

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

- 1. The permittee shall continuously monitor and record, in a satisfactory manner, the volumetric flow rate of the digester gas burned in EU-FLARE. The permittee shall keep all records on file at the facility and make them available to the Department upon request. (R 336.1205, R 336.1225, 40 CFR 52.21(c) and (d))
- 2. The permittee shall keep, in a satisfactory manner, sulfur dioxide emission calculations determining the monthly emission rate in tons per calendar month and tons per 12-month rolling time period as determined at the end of each calendar month, on a monthly basis for EU-FLARE. The calculations shall be based on the volumetric flow rate of digester gas burned in EU-FLARE as well as the hydrogen sulfide (CAS No. 7783-06-4) content of the digester gas burned in EU-FLARE. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205, R 336.2803, 40 CFR 52.21(c) and (d))
- 3. The permittee shall keep, in a satisfactory manner, records of hydrogen sulfide (CAS No. 7783-06-4) content of the digester gas burned in EU-FLARE. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205, R 336.1225)

VII. REPORTING

N/A

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. SV-FLARE	52	23.4	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS

The following conditions apply to: EU-UASB-SCRUBBER

<u>DESCRIPTION</u>: An odor control unit which utilizes carbon filtration to remove hydrogen sulfide and odors of the preacidification/equalization tank at a food processing facility.

Flexible Group ID: N/A

POLLUTION CONTROL EQUIPMENT: Carbon Filtration System

I. EMISSION LIMITS

N/A

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

- Within 30 calendar days of the date of permit approval, the permittee shall submit to the AQD District Supervisor, an approvable operation and maintenance plan for EU-UASB-SCRUBBER. The plan shall include sufficient monitoring to ensure the odor control equipment is operating in a satisfactory manner, including carbon breakthrough test schedule or carbon replacement schedule, and sufficient recordkeeping to demonstrate the equipment is operating in a satisfactory manner. (R 336.1225, R 336.1901)
- 2. The permittee shall install, maintain, and operate EU-UASB-SCRUBBER in a satisfactory manner, as described in the O&M plan required by SC III.1. (R 336.1901, R 336.1910, R 336.1911)

IV. <u>DESIGN/EQUIPMENT PARAMETERS</u>

N/A

V. TESTING/SAMPLING

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

N/A

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 performed in accordance with the operation and maintenance plan required in SC III.1, including any carbon change outs for EUBIO-CA. The permittee shall keep all operation, maintenance, and carbon change out information records, on file at the facility and make them available to the Department upon request. (R 336.1225, R 336.1901, R 336.1910)

VII. REPORTING

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

The following conditions apply to: EU-WWTP-SCRUBBER

<u>DESCRIPTION</u>: An odor control unit which utilizes a bleach tank to remove odors of the wastewater treatment plant at a food processing facility.

Flexible Group ID: N/A

POLLUTION CONTROL EQUIPMENT: Fiberglass Bleach Tank

I. EMISSION LIMITS

N/A

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

- 1. Within 30 days of permit issuance, the permittee shall submit to the AQD District Supervisor an approvable operation and maintenance (O&M) plan for EU-WWTP-SCRUBBER. The plan shall include sufficient monitoring to ensure the odor control equipment is operating in a satisfactory manner, and sufficient recordkeeping to demonstrate the equipment is operating in a satisfactory manner. (R 336.1901, R 336.1910, R 336.1911)
- 2. The permittee shall install, maintain, and operate EU-WWTP-SCRUBBER in a satisfactory manner, as described in the O&M plan required by SC III.1. (R 336.1901, R 336.1910, R 336.1911)

IV. <u>DESIGN/EQUIPMENT PARAMETERS</u>

N/A

V. TESTING/SAMPLING

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

N/A

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 performed in accordance with the operation and maintenance plan required in SC III.1 for EU-WWTP-SCRUBBER. The permittee shall keep all operation and maintenance records on file at the facility and make them available to the Department upon request. (R 336.1901, R 336.1910)

VII. REPORTING

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. SV-WWTP-SCRUBBER	10	29	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENTS