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

April 13, 2020

PERMIT TO INSTALL 45-07F

**ISSUED TO** Boar's Head Provisions Company, Inc.

# LOCATED AT

284 Roost Avenue Holland, Michigan 49424

IN THE COUNTY OF Ottawa

# STATE REGISTRATION NUMBER N5797

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

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:

# February 18, 2020

DATE PERMIT TO INSTALL APPROVED: April 13, 2020	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

# PERMIT TO INSTALL

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## **COMMON ACRONYMS**

# POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm BTU	Actual cubic feet per minute British Thermal Unit
°C	Degrees Celsius
co	Carbon Monoxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
gr	Grains
y' HAP	Hazardous Air Pollutant
Hg	Mercury
hr	Hour
HP	Horsepower
H <sub>2</sub> S	Hydrogen Sulfide
kW	Kilowatt
lb	Pound
	Meter
m	Milligram
mg mm	Millimeter
MM	Million
MW	
NMOC	Megawatts
NOx	Non-Methane Organic Compounds Oxides of Nitrogen
	•
ng PM	Nanogram Particulate Matter
PM10	
	Particulate Matter equal to or less than 10 microns in diameter
PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
pph	Pounds per hour
ppm	Parts per million
ppmv	Parts per million by volume Parts per million by weight
ppmw	
psia	Pounds per square inch absolute
psig scf	Pounds per square inch gauge Standard cubic feet
	Seconds
sec	
SO2 TAC	Sulfur Dioxide Toxic Air Contaminant
Temp THC	Temperature
	Total Hydrocarbons
tpy	Tons per year
hà	Microgram Micrometer er Micron
μm	Micrometer or Micron
VOC	Volatile Organic Compounds Year
yr	ויפמו

### **GENERAL CONDITIONS**

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

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

# **EMISSION UNIT SPECIAL CONDITIONS**

### **EMISSION UNIT SUMMARY TABLE**

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

	Emission Unit Description	Installation	
	(Including Process Equipment & Control	Date /	
Emission Unit ID	Device(s))	Modification Date	Flexible Group ID
EU-SMOKEHOUSE0	ALKAR 2 cage smokehouse oven	July 2009 /	FG-
	Dimensions: 4'10 Wide X 8'9" Long	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via		
	atomization.		
EU-SMOKEHOUSE1	ALKAR 18 cage smokehouse oven.	To Be Determined	NA
	Dimensions: 10' wide x 35'6" Long. Utilizes steam from boilers to cook meat.		
EU-SMOKEHOUSE2	ALKAR 18 cage smokehouse oven	September 2009 /	FG-
E0-SMOREH003E2	Dimensions: 10' Wide X 35'-6" Long	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via	December 1, 2010	SINCRENCOSES
	atomization.		
EU-SMOEKHOUSE3	ALKAR 18 cage smokehouse oven	September 2009 /	FG-
	Dimensions: 10' Wide X 35'-6" Long	December 1, 20r0	SMOKEHOUSES
	Liquid smoke will be applied via	,	
	atomization.		
EU-SMOKEHOUSE4	ALKAR 18 cage smokehouse oven	September 2009 /	FG-
	Dimensions: 10' Wide X 35'-6" Long	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via		
	atomization.		
EU-SMOKEHOUSE5	ALKAR 18 cage smokehouse oven	September 2009 /	FG-
	Dimensions: 10' Wide X 35'-6" Long	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via		
	atomization.	<b>0</b> / 1 0000 /	
EU-SMOKEHOUSE6	ALKAR 18 cage smokehouse oven	September 2009 /	FG-
	Dimensions: 10' Wide X 35'-6" Long.	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via atomization.		
EU-SMOKEHOUSE7	ALKAR Twelve Smokehouse oven	December 1999 /	FG-
E0-SMOREH00SE/	Dimensions: 8' Wide x 21' Long	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via		OMOREHOUDED
	atomization.		
EU-SMOKEHOUSE8	ALKAR Twelve Smokehouse oven	December 1999 /	FG-
	Dimensions: 8' Wide x 21' Long	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via	,	
	atomization.		
EU-SMOKEHOUSE9	ALKAR Twelve Smokehouse oven	December 1999 /	FG-
	Dimensions: 8' Wide x 21' Long	December 1, 2010	SMOKEHOUSES
	Liquid smoke will be applied via		
	atomization or natural wood chips will be		
	used during the smoking/cooking		
	process.		
EU-	ALKAR Twelve Smokehouse oven	December 1999 /	FG-
SMOKEHOUSE10	Dimensions: 8' Wide x 21' Long	December 1, 2010 /	SMOKEHOUSES
	Liquid smoke will be applied via	Date of PTI	FG-WOODCHIPS
	atomization or natural wood chips will be		
	used during the smoking/cooking		
U	process.		1

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EU- SMOKEHOUSE11	ALKAR Twelve Smokehouse oven Dimensions: 8' Wide x 21' Long Liquid smoke will be applied via atomization or natural wood chips will be used during the smoking/cooking process.	July 2001/ December 1, 2010	FG- SMOKEHOUSES FG-WOODCHIPS
EU- SMOKEHOUSE12	ALKAR Twelve Smokehouse oven Dimensions: 8' Wide x 21' Long Liquid smoke will be applied via atomization.	July 2001/ December 1, 2010	FG- SMOKEHOUSES
EU- SMOKEHOUSE13	ALKAR Twelve Smokehouse oven Dimensions: 8' Wide x 21' Long Liquid smoke will be applied via atomization.	July 2001/ December 1, 2010	FG- SMOKEHOUSES
EU- SMOKEHOUSE14	ALKAR Twelve Smokehouse oven Dimensions: 8' Wide x 21' Long Liquid smoke will be applied via atomization.	July 2001/ December 1, 2010	FG- SMOKEHOUSES
EU-BOILER-B1	20.9 MM BTU/hour natural gas fired boiler	1986/ December 1, 2010	FG-BOILERS
EU-BOILER-B2	25.1 MM BTU/hour natural gas fired boiler	1999/ December 1, 2010	FG-BOILERS

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

# EU-SMOKEHOUSE1 EMISSION UNIT CONDITIONS

### DESCRIPTION

ALKAR 18 cage smokehouse oven. Dimensions: 10' wide x 35'6" Long. Utilizes steam from boilers to cook meat.

Flexible Group ID: NA

### POLLUTION CONTROL EQUIPMENT

NA

### I. EMISSION LIMIT(S)

NA

### II. MATERIAL LIMIT(S)

1. The permittee shall not apply any liquid smoke or natural wood smoke in EU-SMOKEHOUSE1. (R 336.1225)

### III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only apply boiler-generated steam to EU-SMOKEHOUSE1. (R 336.1225)

### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

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

NA

#### VI. MONITORING/RECORDKEEPING

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

NA

#### VII. <u>REPORTING</u>

NA

#### VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-SMOKEHOUSE1	20	45	R 336.1225,
			40 CFR 21.21 (c)&(d)

# IX. OTHER REQUIREMENT(S)

NA

## Footnotes:

# FLEXIBLE GROUP SPECIAL CONDITIONS

### FLEXIBLE GROUP SUMMARY TABLE

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

		Associated
Flexible Group ID	Flexible Group Description	Emission Unit IDs
FG-WOODCHIPS	Smokehouse ovens utilizing liquid smoke applied via	EU-SMOKEHOUSE9,
	atomization or natural wood chips.	EU-SMOKEHOUSE10,
		EU-SMOKEHOUSE11
FG-SMOKEHOUSES	Smokehouse ovens utilizing liquid smoke applied via	EU-SMOKEHOUSE0,
	atomization.	EU-SMOKEHOUSE2,
		EU-SMOKEHOUSE3,
		EU-SMOKEHOUSE4,
		EU-SMOKEHOUSE5,
		EU-SMOKEHOUSE6,
		EU-SMOKEHOUSE7,
		EU-SMOKEHOUSE8,
		EU-SMOKEHOUSE9,
		EU-SMOKEHOUSE10,
		EU-SMOKEHOUSE11,
		EU-SMOKEHOUSE12,
		EU-SMOKEHOUSE13,
		EU-SMOKEHOUSE14
FG-BOILERS	A 20.9 Million BTU/hr natural gas fired boiler (EU-	EU-BOILER-B1,
	BOILER-B1) and a 25.1 Million BTU/hr natural gas	EU-BOILER-B2
	fired boiler (EU-BOILER-B2).	

# FG-WOODCHIPS FLEXIBLE GROUP CONDITIONS

#### DESCRIPTION

Smokehouse ovens utilizing liquid smoke applied via atomization or natural wood chips.

Emission Unit: EU-SMOKEHOUSE9, EU-SMOKEHOUSE10, EU-SMOKEHOUSE11

#### POLLUTION CONTROL EQUIPMENT

NA

#### I. EMISSION LIMIT(S)

NA

#### II. MATERIAL LIMIT(S)

1. The permittee shall not use more than 21,259 pounds of wood chips per 12-month rolling time period in FG-WOODCHIPS. (R 336.1225, R 336.1331)

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

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

NA

#### VI. MONITORING/RECORDKEEPING

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

 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the amount of wood chips used (pounds) in FG-WOODCHIPS. 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 336.1225, R 336.1331)

#### VII. <u>REPORTING</u>

NA

#### VIII. STACK/VENT RESTRICTION(S)

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

	Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1.	SV-SMOKEHOUSE9	20	45	R 336.1225, 40 CFR 21.21 (c)&(d)
2.	SV-SMOKEHOUSE10	20	45	R 336.1225, 40 CFR 21.21 (c)&(d)
3.	SV-SMOKEHOUSE11	20	45	R 336.1225, 40 CFR 21.21 (c)&(d)

# IX. OTHER REQUIREMENT(S)

NA

## Footnotes:

# FG-SMOKEHOUSES FLEXIBLE GROUP CONDITIONS

### **DESCRIPTION**

Smokehouse ovens utilizing liquid smoke applied via atomization.

Emission Unit: EU-SMOKEHOUSE0, EU-SMOKEHOUSE2, EU-SMOKEHOUSE3, EU-SMOKEHOUSE4, EU-SMOKEHOUSE5, EU-SMOKEHOUSE6, EU-SMOKEHOUSE7, EU-SMOKEHOUSE8, EU-SMOKEHOUSE9, EU-SMOKEHOUSE10, EU-SMOKEHOUSE11, EU-SMOKEHOUSE12, EU-SMOKEHOUSE13, EU-SMOKEHOUSE14

#### POLLUTION CONTROL EQUIPMENT

NA

#### I. EMISSION LIMIT(S)

NA

### II. MATERIAL LIMIT(S)

1. The permittee shall not use more than 4,000 gallons of liquid smoke per 12-month rolling time period in FG-SMOKEHOUSES. (R 336.1225, R 336.1331)

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

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

NA

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

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

 The permittee shall keep, in a satisfactory manner, monthly and 12-month rolling time period records of the amount of liquid smoke used (gallons) in FG-SMOKEHOUSES. 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 336.1225, R 336.1331)

#### VII. <u>REPORTING</u>

1. The permittee shall provide written notification of any change in liquid smoke for FG-SMOKEHOUSES. The permittee shall submit notification of the change to the AQD District Supervisor within 30 days following the substitution. The notification shall include a demonstration that the change is exempt from the requirement to obtain a permit to install pursuant to Rule 285. (R 336.1285, R 336.1225, R 336.1331)

# VIII. STACK/VENT RESTRICTION(S)

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

	Stack & Vent ID	Maximum Exhaust Diameter/Dimension s (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1.	SV-SMOKEHOUSE0	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
2.	SV-SMOKEHOUSE2	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
3.	SV-SMOKEHOUSE3	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
4.	SV-SMOKEHOUSE4	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
5.	SV-SMOKEHOUSE5	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
6.	SV-SMOKEHOUSE6	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
7.	SV-SMOKEHOUSE7	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
8.	SV-SMOKEHOUSE8	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
9.	SV-SMOKEHOUSE9	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
10.	SV-SMOKEHOUSE10	20 <sup>1</sup>	45	R 336.1225
11.	SV-SMOKEHOUSE11	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
12.	SV-SMOKEHOUSE12	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
13.	SV-SMOKEHOUSE13	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225
14.	SV-SMOKEHOUSE14	20 <sup>1</sup>	45 <sup>1</sup>	R 336.1225

# IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

# FG-BOILERS FLEXIBLE GROUP CONDITIONS

#### DESCRIPTION

A 20.9 Million BTU/hr natural gas-fired boiler and a 25.1 Million BTU/hr natural gas-fired boiler.

Emission Unit: EU-BOILER-B1, EU-BOILER-B2

### POLLUTION CONTROL EQUIPMENT

NA

### I. EMISSION LIMIT(S)

NA

### II. MATERIAL LIMIT(S)

NA

### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

## IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

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

NA

#### VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, monthly records of the amount of natural gas combusted in FG-BOILERS. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request. (40 CFR 60.48c)

## VII. <u>REPORTING</u>

NA

## VIII. STACK/VENT RESTRICTION(S)

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

	Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1	. SV-BOILER-B1	20 <sup>1</sup>	20 <sup>1</sup>	R 336.1225

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
2. SV-BOILER-B2	20 <sup>1</sup>	20 <sup>1</sup>	R 336.1225

# IX. OTHER REQUIREMENT(S)

NA

#### Footnotes: