Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

DEP7007AI

Administrative Information

___ Section AI.1: Source Information

___ Section AI.2: Applicant Information

___ Section AI.3: Owner Information

___ Section AI.4: Type of Application

___ Section AI.5: Other Required Information

___ Section AI.6: Signature Block

___ Section AI.7: Notes, Comments, and Explanations

Additional Documentation

___ Additional Documentation attached

Source Name: **KBCB, LLC**

KY EIS (AFS) #: **21- 015-00239**

Permit #: **F-18-028**

Agency Interest (AI) ID: **188**

Date: **3/18/2025**

Section AI.1: Source Information

Physical Location Address:	**Street:**	2100 Litton Lane				
	City:	Hebron	**County:**	Boone	**Zip Code:**	41048
Mailing Address:	**Street or P.O. Box:**	2100 Litton Lane				
	City:	Hebron	**State:**	KY	**Zip Code:**	41048

Standard Coordinates for Source Physical Location

Longitude: 39.07872 (decimal degrees) **Latitude:** -84.71082 (decimal degrees)

Primary (NAICS) Category: Bakery products, fresh (i.e., bread, cakes, doughnuts, pastries), made **Primary NAICS #:** 311812

#

Classification (SIC) Category: Commercial Bakery **Primary SIC #:** 2051

Briefly discuss the type of business conducted at this site: KBCB operates a commercial bakery with three production lines, for bread, soft roll buns, and cake doughnuts.

Description of Area Surrounding Source: ☐ Rural Area ☐ Industrial Park ☐ Residential Area ☐ Urban Area ☐ Industrial Area ☑ Commercial Area

Is any part of the source located on federal land? ☐ Yes ☑ No

Number of Employees: 293

Approximate distance to nearest residence or commercial property: 230 feet **Property Area:** 16.2 acres **Is this source portable?** ☐ Yes ☑ No

What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?

NPDES/KPDES:	☐ Currently Hold	☐ Need	☑ N/A
Solid Waste:	☐ Currently Hold	☐ Need	☑ N/A
RCRA:	☐ Currently Hold	☐ Need	☑ N/A
UST:	☐ Currently Hold	☐ Need	☑ N/A

Type of Regulated Waste Activity:

☐ Mixed Waste Generator ☑ Generator ☐ Recycler ☐ Other: _____

☐ U.S. Importer of Hazardous Waste ☐ Transporter ☐ Treatment/Storage/Disposal Facility ☐ N/A

Section AI.2: Applicant Information

Applicant Name: KBCB, LLC

Title: (if individual)

Mailing Address: **Street or P.O. Box:** 2100 Litton Lane
City: Hebron **State:** KY **Zip Code:** 41048

Email: (if individual)

Phone:

Technical Contact

Name: Carysanne North

Title: Environmental Consultant

Mailing Address: **Street or P.O. Box:** 3908 Pocahontas Ave.
City: Cincinnati **State:** OH **Zip Code:** 45227

Email: carysanne@ayerquality.com

Phone: (502) 220-8854

Air Permit Contact for Source

Name: Ryan Ray

Title: Plant Manager

Mailing Address: **Street or P.O. Box:** 2100 Litton Lane
City: Hebron **State:** KY **Zip Code:** 41048

Email: rray@klostermanbakery.com

Phone: (832) 803-3131

Section AI.3: Owner Information

☑ **Owner same as applicant**

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____

City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name	Position

Section AI.4: Type of Application

Current Status: ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ General Permit ☐ Registration ☐ None

Requested Action: *(check all that apply)*

☐ Name Change	☐ Initial Registration	☑ Significant Revision	☐ Administrative Permit Amendment
☐ Renewal Permit	☐ Revised Registration	☐ Minor Revision	☐ Initial Source-wide OperatingPermit
☐ 502(b)(10)Change	☐ Extension Request	☐ Addition of New Facility	☐ Portable Plant Relocation Notice
☐ Revision	☐ Off Permit Change	☐ Landfill Alternate Compliance Submittal	☑ Modification of Existing Facilities
☐ Ownership Change	☐ Closure		

Requested Status: ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ PSD ☐ NSR ☐ Other: _____

Is the source requesting a limitation of potential emissions? ☑ Yes ☐ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
☑ Particulate Matter	Existing Limit	☐ Single HAP	
☑ Volatile Organic Compounds (VOC)	Existing Limit	☐ Combined HAPs	
☐ Carbon Monoxide		☐ Air Toxics (40 CFR 68, Subpart F)	
☐ Nitrogen Oxides		☐ Carbon Dioxide	
☑ Sulfur Dioxide	Existing Limit	☐ Greenhouse Gases (GHG)	
☐ Lead		☐ Other	

For New Construction:

Proposed Start Date of Construction: *(MM/YYYY)* _____

Proposed Operation Start-Up Date: *(MM/YYYY)* _____

For Modifications:

Proposed Start Date of Modification: *(MM/YYYY)* 09/2025

Proposed Operation Start-Up Date: *(MM/YYYY)* 09/2025

Applicant is seeking coverage under a permit shield. ☐ **Yes** ☑ **No**

Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.

Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- ☐ DEP7007A Indirect Heat Exchangers and Turbines
- ☑ DEP7007B Manufacturing or Processing Operations
- ☐ DEP7007C Incinerators and Waste Burners
- ☐ DEP7007F Episode Standby Plan
- ☐ DEP7007J Volatile Liquid Storage
- ☐ DEP7007K Surface Coating or Printing Operations
- ☐ DEP7007L Mineral Processes
- ☐ DEP7007M Metal Cleaning Degreasers
- ☑ DEP7007N Source Emissions Profile
- ☐ DEP7007P Perchloroethylene Dry Cleaning Systems
- ☐ DEP7007R Emission Offset Credit
- ☐ DEP7007S Service Stations
- ☐ DEP7007T Metal Plating and Surface Treatment Operations
- ☑ DEP7007V Applicable Requirements and Compliance Activities
- ☐ DEP7007Y Good Engineering Practice and Stack Height Determination
- ☐ DEP7007AA Compliance Schedule for Non-complying Emission Units
- ☐ DEP7007BB Certified Progress Report
- ☐ DEP7007CC Compliance Certification
- ☐ DEP7007DD Insignificant Activities
- ☐ DEP7007EE Internal Combustion Engines
- ☐ DEP7007FF Secondary Aluminum Processing
- ☐ DEP7007GG Control Equipment
- ☐ DEP7007HH Haul Roads
- ☐ Confidentiality Claim
- ☐ Ownership Change Form
- ☐ Secretary of State Certificate
- ☑ Flowcharts or diagrams depicting process
- ☐ Digital Line Graphs (DLG) files of buldings, roads, etc.
- ☐ Site Map
- ☐ Map or drawing depicting location of facility
- ☐ Safety Data Sheet (SDS)
- ☐ Emergency Response Plan
- ☐ Other: _____

Section AI.6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

Authorized Signature	3/20/25 **Date**
Ryan Ray **Type or Printed Name of Signatory**	Plant Manager **Title of Signatory**

*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations

KLOSTERMAN
BAKING COMPANY
Bake It Safe | Make It Better | Serve It Proudly Together

January 23, 2025

Permit Support Section
Kentucky Division for Air Quality
300 Sower Boulevard
Frankfort, KY 40601

Permit Modification Application
KBCB, LLC – Source ID 21-015-00239

To Whom it May Concern:

KBCB, LLC (KBCB) operates a bakery at 2100 Litton Lane with three production lines for bread, soft roll buns, and cake doughnuts. The facility has been assigned an Agency Interest Number and Source ID of 188 and 21-015-00239, respectively.

Enclosed is an application to modify KBCB, LLC's operating permit (ID F-18-028, issued August 7, 2018) to incorporate proposed changes to EU 002, bun line, and associated control equipment. Please note that KBCB is not requesting changes to the existing federally enforceable permit terms, monitoring and recordkeeping requirements or emissions limits at this time.

KBCB intends to install a new divider to the bun line conveyor that would increase the production throughput capacity and therefore, the potential emissions, of EU 002. The bakery is not proposing any changes to the 4.70 MMBTU natural gas-fired bun oven as a part of this project. Changes to the potential to emit from the bun line are detailed in the table below:

Emission Source	PTE Before Changes (tons/year)			PTE After Changes (tons/year)		
	VOC		Total HAPs	VOC		Total HAPs
	Uncontrolled	Controlled	Controlled	Uncontrolled	Controlled	Controlled
Bun Line-Baking	59.76	59.76	2.39	121.50	6.07	0.24
Bun Line-Proofing	5.98	5.98	0.24	12.15	12.15	0.49

KBCB proposes to tie the bun line oven into the existing catalytic oxidizer to control VOC emissions. Both the bread and bun line oven exhausts will be joined via a closed vent system that routes the exhaust gases to the catalytic oxidizer for control.

The existing catalytic oxidizer was designed with the eventual inclusion of the bun line in mind and was sized appropriately for the additional load. Other than these additions to the ventilation system, no changes to the catalytic oxidizer, location or stack are being proposed as a part of this project.

The bun oven was designed to meet the criteria of a "permanent total enclosure" per US EPA guidelines. The oxidizer has a guaranteed minimum destruction and removal efficiency of 95%, as measured via EPA Reference Method 25A.

KLOSTERMAN
BAKING COMPANY

Bake It Safe | Make It Better | Serve It Proudly Together

KBCB has made every effort to provide a technically complete permit application. As you review this application and its attachments, please do not hesitate to contact me at rray@klostermanbakery.com with any questions. Technical questions may be directed to our environmental consultant, Carysanne North, of AYER Quality Engineering LLC at carysanne@ayerqulity.com or (502) 220-8854. Thank you for your attention to this matter.

Sincerely,

Ryan Ray
General Manager
KBCB, LLC
2100 Litton Ln Hebron KY 41048

Enclosures

- Potential to Emit Calculations
- DEP Forms
  - DEP7007AI Form
  - DEP7007V Form
  - DEP7007B Form
  - DEP7007N Form
  - Process Flow Diagram

Facility-Wide
Potential to Emit

KLOSTERMAN BAKING COMPANY

KBCB, LLC
Hebron, KY

Emission Source	Potential Emissions (tons/year)						
	VOC		PM/PM_{10}	NOx	CO	SO_2	Total HAPs
	Uncontrolled	Controlled	Controlled				Controlled
Bread Line-Baking	162.60	8.13	--	--	--	--	0.33
Bread Line-Proofing	16.26	16.26	--	--	--	--	0.65
Bun Line-Baking	121.50	6.07	--	--	--	--	0.24
Bun Line-Proofing	12.15	12.15	--	--	--	--	0.49
Doughnut Line	1.10	1.10	3.85	--	--	--	--
Flour Silos	--	--	0.04	--	--	--	--
Combustion Sources							
Bread Oven	0.1979	0.1979	0.2734	3.5974	3.0218	0.0216	0.2734
Bun Oven	0.1079	0.1079	0.1491	1.9622	1.6483	0.0118	0.1491
Doughnut Fryer	0.0225	0.0225	0.0311	0.4088	0.3434	0.0025	0.0311
Catalytic Oxidizer	0.0092	0.0092	0.0127	0.1669	0.1402	0.0010	0.0127
(5) Air Makeup Units	0.3935	0.3935	0.5437	7.1540	6.0094	0.0429	0.5437
(2) Hurst Boilers	0.2929	0.2929	0.4048	5.3261	4.4739	0.0320	0.4048
(39) Radiant Tube Heaters	0.0805	0.0805	0.1113	1.4642	1.2299	0.0088	0.1113
Steam Boiler - 262,500 BTU/hr	0.0060	0.0060	0.0083	0.1095	0.0920	0.0007	0.0083
Steam Boiler @ 1,010,000 BTU/hr	0.0232	0.0232	0.0320	0.4213	0.3539	0.0025	0.0320
(2) Steam Boilers - 600,000 BTU/hr	0.0275	0.0275	0.0380	0.5006	0.4205	0.0030	0.0380
Domestic Hot Water Heater	0.0017	0.0017	0.0024	0.0313	0.0263	0.0002	0.0024
Totals	**314.77**	**44.88**	**5.50**	**21.14**	**17.76**	**0.13**	**3.31**

Prepared by: Carysanne North, EIT 1/10/2025
Reviewed by: Alexis Von Holle, 1/21/2025

AYER

Bun Line
Potential to Emit

KBCB, LLC
Hebron, KY

Objective

Calculate potential to emit from the Bun Line at the Klosterman Boone County Bakery (KBCB).

Method

Emissions are calculated using AP-42, Section 9.9.6 (dated 2/97)

VOC E.F. = 0.95Yi + 0.195ti - 0.51S - 0.86ts + 1.90

Emission Factor Calculation: Formula 61S - BBQ Buns

Yi	5.11	initial baker's percent of yeast
ti	0.9	initial fermentation time
S	0	final (spike) baker's percent of yeast
ts	0	spiking time in hours
VOC E.F.	6.93	pounds VOC per ton of baked bread

KBCB is planning to install a divider to increase the production capacity of BBQ buns. As a worst case estimate, these calculations assume all bun line production would be dedicated to this product.

Data

	Value	Units	Reference
Production Time:	148	hours/week	Facility information, maximum value.
Production Time:	52	weeks/year	Facility information, maximum value.
Formula 61S - BBQ Buns			
Production Rate:	6,075	packages/hour	Equipment design.
Weight of Loaf:	24	oz/package	Facility information.
Production Rate:	9,113	lbs/hour	Calculated from above.
Production Rate:	4.56	tons/hour	Calculated from above.
Production Rate:	35,065	tons/year	Calculated from above.
VOC Emission Factor:	6.93	lbs VOC/ton buns	Calculated using equation above.
Catalytic Oxidizer Control Efficiency:	95%		Minimum design control efficiency.
Proofing Emissions Percent:	10%	of baking emissions	EF developed from IDEM bakery study.
Acetaldehyde HAP Emission Factor:	0.04	lbs HAP/lb VOC	Indiana Department of Environmental Management.

Calculations

(1) Calculate the maximum hourly VOC emissions from Baking for the Bun Line.

= VOC Emission Factor [lbs/ton baked] x Production Rate [tons/hour]

= 6.93 lbs VOC/ton baked x 4.56 tons baked/hour

= 31.57 lbs VOC/hour, from baking

(2) Calculate the maximum annual VOC emissions from Baking for the Bun Line.

= Maximum Hourly VOC Emissions from bun Line Baking [lbs VOC/hr] x Production Time [hours/week] x Production Time [weeks/year] / 2,000 [lbs/ton]

= 31.57 lbs VOC/hour x 148 hours/week x 52 weeks/year / 2,000 lbs/ton

= 121.50 tons VOC/year, from baking

Prepared by: Carysanne North, EIT 1/10/2025
Reviewed by: Alexis Von Holle, 1/21/2025

(4) Calculate the maximum hourly VOC emissions from Proofing for the Bun Line.
= Maximum VOC Emissions from bun Line Baking [lbs VOC/hr] x Proofing Emissions Percent [%]
= 31.57 lbs VOC/hour x 10%
= 3.16 lbs VOC/hour, from proofing

(5) Calculate the maximum annual VOC emissions from Proofing for the Bun Line.
= Maximum Hourly VOC Emissions from bun Line Proofing [lbs VOC/hr] x Production Time [hours/week] x Production Time [weeks/year] / 2,000 [lbs/ton]
= 3.16 lbs VOC/hour x 148 hours/week x 52 weeks/year / 2,000 lbs/ton
= 12.15 tons VOC/year, from proofing

Summary

Emission Source	VOC Emissions				HAP Emissions			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	(lbs/hr)	(tpy)	(lbs/hr)	(tpy)	(lbs/hr)	(tpy)	(lbs/hr)	(tpy)
Bun Line-Baking	31.57	121.50	1.58	6.07	1.26	4.86	0.06	0.24
Bun Line-Proofing	3.16	12.15	3.16	12.15	0.13	0.49	0.13	0.49
TOTALS	**34.73**	**133.65**	**4.74**	**18.22**	**1.39**	**5.35**	**0.19**	**0.73**

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

DEP7007AI

Administrative Information

___ Section AI.1: Source Information

___ Section AI.2: Applicant Information

___ Section AI.3: Owner Information

___ Section AI.4: Type of Application

___ Section AI.5: Other Required Information

___ Section AI.6: Signature Block

___ Section AI.7: Notes, Comments, and Explanations

Additional Documentation

___ Additional Documentation attached

Source Name: **KBCB, LLC**

KY EIS (AFS) #: **21- 015-00239**

Permit #: **F-18-028**

Agency Interest (AI) ID: **188**

Date: **1/23/2025**

Section AI.1: Source Information

Physical Location Address:	**Street:**	2100 Litton Lane				
	City:	Hebron	**County:**	Boone	**Zip Code:**	41048
Mailing Address:	**Street or P.O. Box:**	2100 Litton Lane				
	City:	Hebron	**State:**	KY	**Zip Code:**	41048

Standard Coordinates for Source Physical Location

Longitude: 39.07872 (decimal degrees) **Latitude:** -84.71082 (decimal degrees)

Primary (NAICS) Category: Bakery products, fresh (i.e., bread, cakes, doughnuts, pastries), made **Primary NAICS #:** 311812

#

Classification (SIC) Category: Commercial Bakery **Primary SIC #:** 2051

Briefly discuss the type of business conducted at this site: KBCB operates a commercial bakery with three production lines, for bread, soft roll buns, and cake doughnuts.

Description of Area Surrounding Source: ☐ Rural Area ☐ Industrial Park ☐ Residential Area ☐ Urban Area ☐ Industrial Area ☑ Commercial Area

Is any part of the source located on federal land? ☐ Yes ☑ No

Number of Employees: 293

Approximate distance to nearest residence or commercial property: 230 feet **Property Area:** 16.2 acres **Is this source portable?** ☐ Yes ☑ No

What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?

NPDES/KPDES:	☐ Currently Hold	☐ Need	☑ N/A
Solid Waste:	☐ Currently Hold	☐ Need	☑ N/A
RCRA:	☐ Currently Hold	☐ Need	☑ N/A
UST:	☐ Currently Hold	☐ Need	☑ N/A

Type of Regulated Waste Activity:

☐ Mixed Waste Generator ☑ Generator ☐ Recycler ☐ Other: _____

☐ U.S. Importer of Hazardous Waste ☐ Transporter ☐ Treatment/Storage/Disposal Facility ☐ N/A

Section AI.2: Applicant Information

Applicant Name: KBCB, LLC

Title: (if individual)

Mailing Address: **Street or P.O. Box:** 2100 Litton Lane
City: Hebron **State:** KY **Zip Code:** 41048

Email: (if individual)

Phone:

Technical Contact

Name: Carysanne North

Title: Environmental Consultant

Mailing Address: **Street or P.O. Box:** 3908 Pocahontas Ave.
City: Cincinnati **State:** OH **Zip Code:** 45227

Email: carysanne@ayerquality.com

Phone: (502) 220-8854

Air Permit Contact for Source

Name: Ryan Ray

Title: Plant Manager

Mailing Address: **Street or P.O. Box:** 2100 Litton Lane
City: Hebron **State:** KY **Zip Code:** 41048

Email: rray@klostermanbakery.com

Phone: (832) 803-3131

Section AI.3: Owner Information

☑ **Owner same as applicant**

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____

City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name	Position

Section AI.4: Type of Application

Current Status: ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ General Permit ☐ Registration ☐ None

Requested Action: *(check all that apply)*

☐ Name Change	☐ Initial Registration	☐ Significant Revision	☐ Administrative Permit Amendment
☐ Renewal Permit	☐ Revised Registration	☐ Minor Revision	☐ Initial Source-wide OperatingPermit
☐ 502(b)(10)Change	☐ Extension Request	☐ Addition of New Facility	☐ Portable Plant Relocation Notice
☐ Revision	☐ Off Permit Change	☐ Landfill Alternate Compliance Submittal	☑ Modification of Existing Facilities
☐ Ownership Change	☐ Closure		

Requested Status: ☐ Title V ☑ Conditional Major ☐ State-Origin ☐ PSD ☐ NSR ☐ Other: _____

Is the source requesting a limitation of potential emissions? ☑ Yes ☐ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
☑ Particulate Matter	Existing Limit	☐ Single HAP	
☑ Volatile Organic Compounds (VOC)	Existing Limit	☐ Combined HAPs	
☐ Carbon Monoxide		☐ Air Toxics (40 CFR 68, Subpart F)	
☐ Nitrogen Oxides		☐ Carbon Dioxide	
☑ Sulfur Dioxide	Existing Limit	☐ Greenhouse Gases (GHG)	
☐ Lead		☐ Other	

For New Construction:

Proposed Start Date of Construction: *(MM/YYYY)* _____

Proposed Operation Start-Up Date: *(MM/YYYY)* _____

For Modifications:

Proposed Start Date of Modification: *(MM/YYYY)* 09/2025

Proposed Operation Start-Up Date: *(MM/YYYY)* 09/2025

Applicant is seeking coverage under a permit shield. ☐ **Yes** ☑ **No**

Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.

Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- ☐ DEP7007A Indirect Heat Exchangers and Turbines
- ☑ DEP7007B Manufacturing or Processing Operations
- ☐ DEP7007C Incinerators and Waste Burners
- ☐ DEP7007F Episode Standby Plan
- ☐ DEP7007J Volatile Liquid Storage
- ☐ DEP7007K Surface Coating or Printing Operations
- ☐ DEP7007L Mineral Processes
- ☐ DEP7007M Metal Cleaning Degreasers
- ☑ DEP7007N Source Emissions Profile
- ☐ DEP7007P Perchloroethylene Dry Cleaning Systems
- ☐ DEP7007R Emission Offset Credit
- ☐ DEP7007S Service Stations
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- ☑ DEP7007V Applicable Requirements and Compliance Activities
- ☐ DEP7007Y Good Engineering Practice and Stack Height Determination
- ☐ DEP7007AA Compliance Schedule for Non-complying Emission Units
- ☐ DEP7007BB Certified Progress Report
- ☐ DEP7007CC Compliance Certification
- ☐ DEP7007DD Insignificant Activities
- ☐ DEP7007EE Internal Combustion Engines
- ☐ DEP7007FF Secondary Aluminum Processing
- ☐ DEP7007GG Control Equipment
- ☐ DEP7007HH Haul Roads
- ☐ Confidentiality Claim
- ☐ Ownership Change Form
- ☐ Secretary of State Certificate
- ☑ Flowcharts or diagrams depicting process
- ☐ Digital Line Graphs (DLG) files of buldings, roads, etc.
- ☐ Site Map
- ☐ Map or drawing depicting location of facility
- ☐ Safety Data Sheet (SDS)
- ☐ Emergency Response Plan
- ☐ Other: _____

Section AI.6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

[signature]	1/27/25
Authorized Signature	**Date**
Ryan Ray	Plant Manager
Type or Printed Name of Signatory	**Title of Signatory**

*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

DEP7007V

Applicable Requirements and Compliance Activities

___ Section V.1: Emission and Operating Limitation(s)

___ Section V.2: Monitoring Requirements

___ Section V.3: Recordkeeping Requirement

___ Section V.4: Reporting Requirements

___ Section V.5: Testing Requirements

___ Section V.6: Notes, Comments, and Explanations

Additional Documentation
___ Complete DEP7007AI

Source Name: **KBCB, LLC**

KY EIS (AFS) #: **21-** **015-00239**

Permit #: **F-18-028**

Agency Interest (AI) ID: **188**

Date: **1/23/2025**

Section V.1: Emission and Operating Limitation(s)

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
	Facility-Wide	401 KAR 52:030	VOC		95 TPY 12-MRS	Operation of a 95%+ efficiency catalytic oxidizer.	Records of the VOC emissions for the bread and bun line, including baking and proofing.

Section V.2: Monitoring Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring
002	Bun Line	VOC	401 KAR 52:030	Hours of Operation	Monthly hours of operation of the Bun Line Oven while producing product
				Hours of Operation	Monthly hours of operation of the Bun Line Oven while not producing product, but still combusting natural gas
				Natural Gas Use	Amount of natural gas used at the facility monthly
				Production Quantity	Total product produced monthly, in tons
				VOC Emissions	Total VOC emissions related to EU 002 on a monthly basis as well as a 12-month rolling total
		Opacity	401 KAR 59:010, New process operations	Visible Emissions	Compliance with the opacity standard shall be determined by the permittee performing a qualitative visual observation during daylight hours of the opacity of emissions at each stack on a monthly basis and maintaining a log of the observations. If visible emissions from the stacks are seen (not including condensed water in the plume), then an inspection of process/control equipment shall be initiated and corrective action taken. If visible emissions are present after the corrective action, the permittee may determine the opacity using EPA Reference Method 9.

Section V.3: Recordkeeping Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Description of Recordkeeping
002	Bun Line	VOC	401 KAR 52:030	VOC Emissions	Monthly and 12-month rolling total VOC emissions
		Opacity	401 KAR 59:010, New process operations	Visible Emissions	Results of the monthly visual observations, corrective action and any EPA Reference Method 9 conducted, including the date of the observation, and whether any visible emissions were observed.

Section V.4: Reporting Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reported	Description of Reporting
002	Bun Line	VOC	402 KAR 59:005, General Provisions, Section 3(3); 401 KAR 52:030, Section 21	Monitoring and Recordkeeping, Deviations	Semi-annual Monitoring Report, Annual Compliance Certification, Deviation Reports

Section V.5: Testing Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Tested	Description of Testing
002	Bun Line	VOC	401 KAR 50:045, Section 1	Performance Testing	Pursuant to 401 KAR 50:045, Section 1, performance testing using Reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

Section V.6: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007B

Manufacturing or Processing Operations

___ Section B.1: Process Information
___ Section B.2: Materials and Fuel Information
___ Section B.3: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.
___ Attach a flow diagram
___ Attach SDS

Source Name: KBCB, LLC
KY EIS (AFS) #: 21- 015-00239
Permit #: F-18-028
Agency Interest (AI) ID: 188
Date: 1/23/2025

Section B.1: Process Information

Emission Unit #	Emission Unit Name	Describe Emission Unit	Process ID	Process Name	Manufacturer	Model No.	Proposed/Actual Date of Construction Commencement *(MM/YYYY)*	Is the Process Continuous or Batch?	Number of Batches per 24 Hours *(if applicable)*	Hours per Batch *(if applicable)*
002	Bun Line	Bun line: scaling area, sponge mixer, fermentation troughs, final mixer, extruder, conveyor, proofer, oven, cooling zone, packaging. Oven will be controlled by catalytic oxidizer.		Bun Line	Custom	Custom	10/2018	Continuous	1319	0.02

Section B.2: Materials and Fuel Information

**Maximum yearly fuel usage rate only applies if applicant request operating restrictions through federally enforceable limitations.*

Emission Unit #	Emission Unit Name	Name of Raw Materials Input	Maximum Quantity of Each Raw Material Input		Total Process Weight Rate for Emission Unit (tons/hr)	Name of Finished Materials	Maximum Quantity of Each Finished Material Output		Fuel Type	Maximum Hourly Fuel Usage Rate		Maximum Yearly Fuel Usage Rate		Sulfur Content (%)	Ash Content (%)
				(Specify Units/hr)				(Specify Units/hr)			(Specify Units)		(Specify Units)		
002	Bun Line	Yeast Leavened Dough	5.06	tons/hr (dry basis)	4.56	Baked Bread	4.56	tons/hr	Natural Gas	4.48	Mscf/hr (Oven)	39244.8	Mscf/yr	Neglibible	Neglibible
									Natural Gas	0.381	Mscf/hr (RTO)	3337.56	Mscf/yr	Neglibible	Neglibible

Section B.3: Notes, Comments, and Explanations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007N

Source Emissions Profile

__ Section N.1: Emission Summary
__ Section N.2: Stack Information
__ Section N.3: Fugitive Information
__ Section N.4: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI

Source Name: KBCB, LLC
KY EIS (AFS) #: 21- 015-00239
Permit #: F-18-028
Agency Interest (AI) ID: 188
Date: 1/23/2025

N.1: Emission Summary

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity *(SCC Units/hour)*	Pollutant	Uncontrolled Emission Factor *(lb/SCC Units)*	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency *(%)*	Control Efficiency *(%)*	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential *(lb/hr)*	Controlled Potential *(lb/hr)*	Uncontrolled Potential *(tons/yr)*	Controlled Potential *(tons/yr)*
002	Bun Line		Bun Line Oven	CatOx		0001	4.56	VOC	6.93	AP-42		95%	31.57	1.58	121.50	6.07
								Acetaldehyde	0.28	IDEM Study		95%	1.26	0.06	4.86	0.24
			Bun Line Proofing			FUGITIVE	4.56	VOC	0.69	IDEM Study			3.16	3.16	12.15	12.15
								Acetaldehyde	0.03	IDEM Study			0.13	0.13	0.49	0.49

Section N.2: Stack Information

UTM Zone:

Stack ID	Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack	Stack Physical Data			Stack UTM Coordinates		Stack Gas Stream Data		
		Equivalent Diameter *(ft)*	Height *(ft)*	Base Elevation *(ft)*	Northing *(m)*	Easting *(m)*	Flowrate *(acfm)*	Temperature *(° F)*	Exit Velocity *(ft/sec)*
1	CatOx Stack	2.5	43		698052.6	697981.94	6100	550	41.00
~~2A~~	~~Bun Line Oven Stack 1~~	~~1.166667~~	~~43~~		~~4328051.6~~	~~698052.6~~	~~2000~~	~~400~~	~~29.00~~
~~2B~~	~~Bun Line Oven Stack 2~~	~~1.166667~~	~~43~~		~~4328051.6~~	~~698046.59~~	~~2000~~	~~400~~	~~29.00~~

Section N.3: Fugitive Information

UTM Zone:

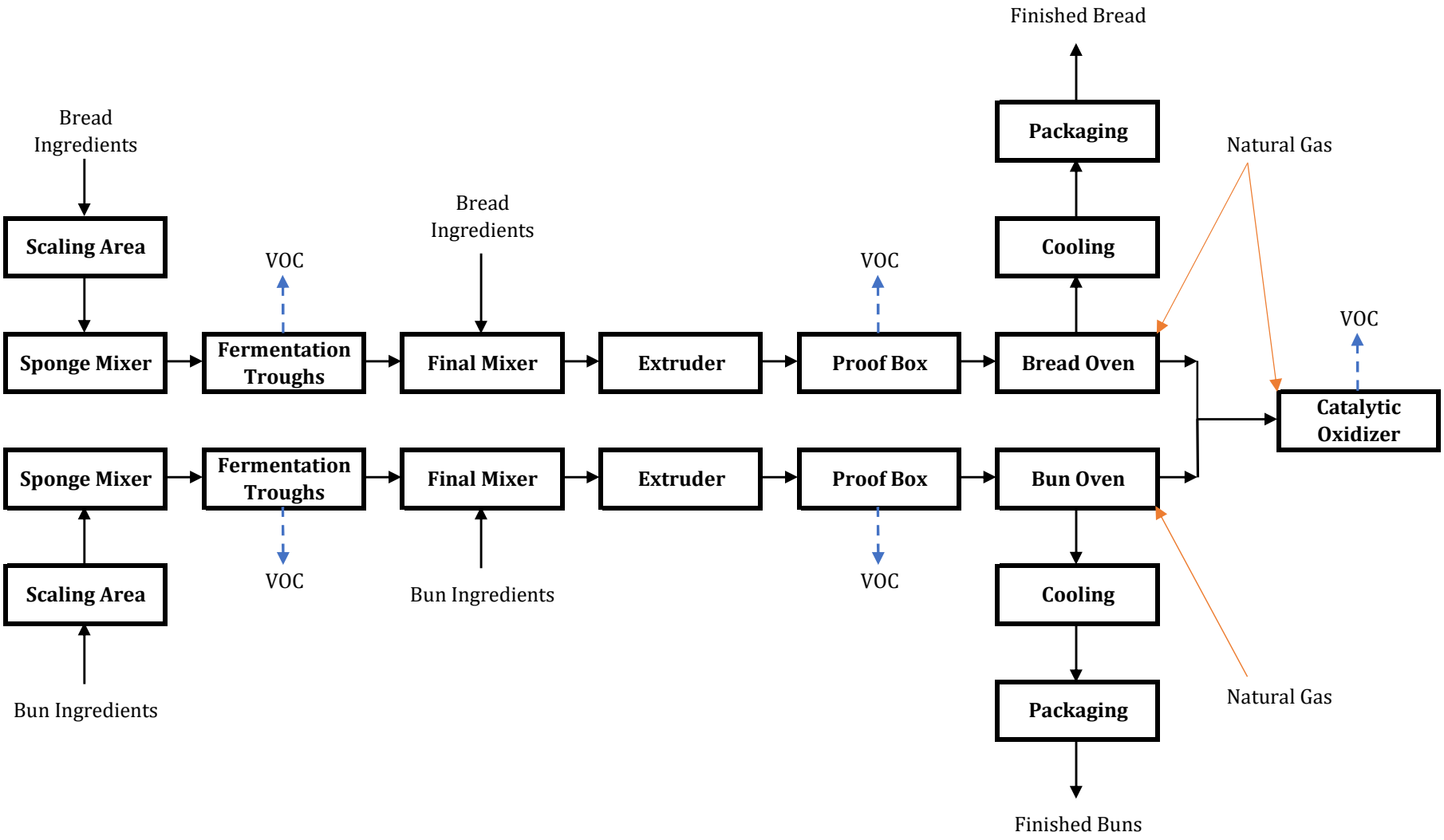
Emission Unit #	Emission Unit Name	Process ID	Area Physical Data		Area UTM Coordinates		Area Release Data	
			Length of the X Side *(ft)*	Length of the Y Side *(ft)*	Northing *(m)*	Easting *(m)*	Release Temperature *(°F)*	Release Height *(ft)*
002	Bun Line	Bun Line Proofing	533.87	340.8	4327945.11	698021.91	70	16.5

Section N.4: Notes, Comments, and Explanations

001, 002
Process Flow Diagram

KLOSTERMAN BAKING COMPANY

KBCB, LLC
Hebron, KY



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