

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	Street:	<u>2100 Litton Lane</u>		
Address:	City:	<u>Hebron</u>	County:	<u>Boone</u>
			Zip Code:	<u>41048</u>
Mailing Address:	Street or P.O. Box:	<u>2100 Litton Lane</u>		
	City:	<u>Hebron</u>	State:	<u>KY</u>
			Zip Code:	<u>41048</u>

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:		<u>Commercial Bakery</u>		Primary SIC #: <u>2051</u>	
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:	<input type="checkbox"/> Rural Area	<input type="checkbox"/> Industrial Park	<input type="checkbox"/> Residential Area	Is any part of the source located on federal land?	<input type="checkbox"/> Yes
	<input type="checkbox"/> Urban Area	<input type="checkbox"/> Industrial Area	<input checked="" type="checkbox"/> Commercial Area		<input checked="" type="checkbox"/> No
			Number of Employees:	293	
Approximate distance to nearest residence or commercial property: <u>230 feet</u>		Property Area: <u>16.2 acres</u>		Is this source portable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?					
NPDES/KPDES: <input type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input checked="" type="checkbox"/> N/A					
Solid Waste: <input type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input checked="" type="checkbox"/> N/A					
RCRA: <input type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input checked="" type="checkbox"/> N/A					
UST: <input type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input checked="" type="checkbox"/> N/A					
Type of Regulated Waste Activity:					
<input type="checkbox"/> Mixed Waste Generator		<input checked="" type="checkbox"/> Generator		<input type="checkbox"/> Recycler <input type="checkbox"/> Other: _____	
<input type="checkbox"/> U.S. Importer of Hazardous Waste		<input type="checkbox"/> Transporter		<input type="checkbox"/> Treatment/Storage/Disposal Facility <input type="checkbox"/> N/A	

Section AI.2: Applicant Information

Applicant Name:	<u>KBCB, LLC</u>			
Title: (if individual)	<u></u>			
Mailing Address:	Street or P.O. Box:	<u>2100 Litton Lane</u>		
	City:	<u>Hebron</u>	State:	<u>KY</u>
			Zip Code:	<u>41048</u>
Email: (if individual)	<u></u>			
Phone:	<u></u>			

Technical Contact

Name:	<u>Carysanne North</u>			
Title:	<u>Environmental Consultant</u>			
Mailing Address:	Street or P.O. Box:	<u>3908 Pocahontas Ave.</u>		
	City:	<u>Cincinnati</u>	State:	<u>OH</u>
			Zip Code:	<u>45227</u>
Email:	<u>carysanne@ayerquality.com</u>			
Phone:	<u>(502) 220-8854</u>			

Air Permit Contact for Source

Name:	<u>Ryan Ray</u>			
Title:	<u>Plant Manager</u>			
Mailing Address:	Street or P.O. Box:	<u>2100 Litton Lane</u>		
	City:	<u>Hebron</u>	State:	<u>KY</u>
			Zip Code:	<u>41048</u>
Email:	<u>r-ray@klostermanbakery.com</u>			
Phone:	<u>(832) 803-3131</u>			

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:	<input type="checkbox"/> Title V	<input checked="" type="checkbox"/> Conditional Major	<input type="checkbox"/> State-Origin	<input type="checkbox"/> General Permit	<input type="checkbox"/> Registration	<input type="checkbox"/> None
Requested Action: (check all that apply)	<input type="checkbox"/> Name Change	<input type="checkbox"/> Initial Registration	<input checked="" type="checkbox"/> Significant Revision	<input type="checkbox"/> Administrative Permit Amendment		
	<input type="checkbox"/> Renewal Permit	<input type="checkbox"/> Revised Registration	<input type="checkbox"/> Minor Revision	<input type="checkbox"/> Initial Source-wide Operating Permit		
	<input type="checkbox"/> 502(b)(10) Change	<input type="checkbox"/> Extension Request	<input type="checkbox"/> Addition of New Facility	<input type="checkbox"/> Portable Plant Relocation Notice		
	<input type="checkbox"/> Revision	<input type="checkbox"/> Off Permit Change	<input type="checkbox"/> Landfill Alternate Compliance Submittal	<input checked="" type="checkbox"/> Modification of Existing Facilities		
	<input type="checkbox"/> Ownership Change	<input type="checkbox"/> Closure				
Requested Status:	<input type="checkbox"/> Title V	<input checked="" type="checkbox"/> Conditional Major	<input type="checkbox"/> State-Origin	<input type="checkbox"/> PSD	<input type="checkbox"/> NSR	<input type="checkbox"/> Other: _____

Is the source requesting a limitation of potential emissions?

☒ Yes☐ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
<input checked="" type="checkbox"/> Particulate Matter	<u>Existing Limit</u>	<input type="checkbox"/> Single HAP	_____
<input checked="" type="checkbox"/> Volatile Organic Compounds (VOC)	<u>Existing Limit</u>	<input type="checkbox"/> Combined HAPs	_____
<input type="checkbox"/> Carbon Monoxide	_____	<input type="checkbox"/> Air Toxics (40 CFR 68, Subpart F)	_____
<input type="checkbox"/> Nitrogen Oxides	_____	<input type="checkbox"/> Carbon Dioxide	_____
<input checked="" type="checkbox"/> Sulfur Dioxide	<u>Existing Limit</u>	<input type="checkbox"/> Greenhouse Gases (GHG)	_____
<input type="checkbox"/> Lead	_____	<input type="checkbox"/> 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.

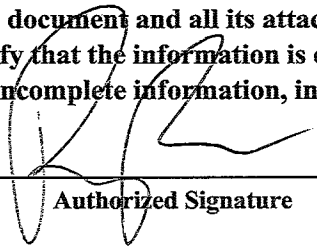
Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

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

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

Ryan Ray

Type or Printed Name of Signatory



Date

Plant Manager

Title of Signatory

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

Section AI.7: Notes, Comments, and Explanations



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.



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@ayerquality.com or (502) 220-8854. Thank you for your attention to this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Ryan Ray", is written over a light blue horizontal line.

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

Emission Source	Potential Emissions (tons/year)						
	VOC		PM/PM ₁₀	NO _x	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	--	--	--	--
<i>Combustion Sources</i>							
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

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)

$$\text{VOC E.F.} = 0.95Y_i + 0.195t_i - 0.51S - 0.86t_s + 1.90$$

Emission Factor Calculation: Formula 61S - BBQ Buns

Y _i	5.11	initial baker's percent of yeast
t _i	0.9	initial fermentation time
S	0	final (spike) baker's percent of yeast
t _s	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.
<i>Formula 61S - BBQ Buns</i>			
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.

$$\begin{aligned}
 &= \text{VOC Emission Factor [lbs/ton baked]} \times \text{Production Rate [tons/hour]} \\
 &= 6.93 \text{ lbs VOC/ton baked} \times 4.56 \text{ tons baked/hour} \\
 &= 31.57 \text{ lbs VOC/hour, from baking}
 \end{aligned}$$

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

$$\begin{aligned}
 &= \text{Maximum Hourly VOC Emissions from bun Line Baking [lbs VOC/hr]} \times \text{Production Time [hours/week]} \times \text{Production Time [weeks/year]} / 2,000 \text{ [lbs/ton]} \\
 &= 31.57 \text{ lbs VOC/hour} \times 148 \text{ hours/week} \times 52 \text{ weeks/year} / 2,000 \text{ lbs/ton} \\
 &= 121.50 \text{ tons VOC/year, from baking}
 \end{aligned}$$

(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

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DEP7007AI**Administrative Information**

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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	Street:	<u>2100 Litton Lane</u>		
Address:	City:	<u>Hebron</u>	County:	<u>Boone</u>
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Standard Coordinates for Source Physical Location

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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.			
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			Number of Employees:	293	
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RCRA: <input type="checkbox"/> Currently Hold <input type="checkbox"/> Need <input checked="" type="checkbox"/> N/A					
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Type of Regulated Waste Activity:					
<input type="checkbox"/> Mixed Waste Generator		<input checked="" type="checkbox"/> Generator		<input type="checkbox"/> Recycler	
<input type="checkbox"/> U.S. Importer of Hazardous Waste		<input type="checkbox"/> Transporter		<input type="checkbox"/> Treatment/Storage/Disposal Facility	
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			Zip Code:	<u>41048</u>
Email: (if individual)	<u></u>			
Phone:	<u></u>			

Technical Contact

Name:	<u>Carysanne North</u>			
Title:	<u>Environmental Consultant</u>			
Mailing Address:	Street or P.O. Box:	<u>3908 Pocahontas Ave.</u>		
	City:	<u>Cincinnati</u>	State:	<u>OH</u>
			Zip Code:	<u>45227</u>
Email:	<u>carysanne@ayerquality.com</u>			
Phone:	<u>(502) 220-8854</u>			

Air Permit Contact for Source

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Title:	<u>Plant Manager</u>			
Mailing Address:	Street or P.O. Box:	<u>2100 Litton Lane</u>		
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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

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Is the source requesting a limitation of potential emissions?

☒ Yes☐ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
<input checked="" type="checkbox"/> Particulate Matter	<u>Existing Limit</u>	<input type="checkbox"/> Single HAP	_____
<input checked="" type="checkbox"/> Volatile Organic Compounds (VOC)	<u>Existing Limit</u>	<input type="checkbox"/> Combined HAPs	_____
<input type="checkbox"/> Carbon Monoxide	_____	<input type="checkbox"/> Air Toxics (40 CFR 68, Subpart F)	_____
<input type="checkbox"/> Nitrogen Oxides	_____	<input type="checkbox"/> Carbon Dioxide	_____
<input checked="" type="checkbox"/> Sulfur Dioxide	<u>Existing Limit</u>	<input type="checkbox"/> Greenhouse Gases (GHG)	_____
<input type="checkbox"/> Lead	_____	<input type="checkbox"/> 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

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_____ 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.

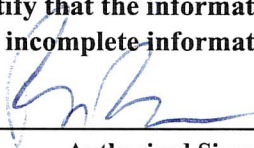
Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

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

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

Ryan Ray

Type or Printed Name of Signatory

1/27/25

Date

Plant Manager

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 <u>Continuous</u> or <u>Batch</u> ?	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	Negligible	Negligible
									Natural Gas	0.381	Mscf/hr (RTO)	3337.56	Mscf/yr	Negligible	Negligible

Section B.3: Notes, Comments, and Explanations

<div>Division for Air Quality</div> <div>300 Sower Boulevard</div> <div>Frankfort, KY 40601</div> <div>(502) 564-3999</div>				<div>DEP7007N</div> <div>Source Emissions Profile</div> <div><div>___ Section N.1: Emission Summary</div><div>___ Section N.2: Stack Information</div><div>___ Section N.3: Fugitive Information</div><div>___ Section N.4: Notes, Comments, and Explanations</div></div> <div><div>Additional Documentation</div><div>___ Complete DEP7007AI</div></div>												
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

