

Commonwealth of Kentucky
Division for Air Quality
STATEMENT OF BASIS / SUMMARY

Conditional Major, Operating
Permit: F-26-030

Campbellsville Industries Inc.
440 Taylor Blvd.
Campbellsville, (Taylor) KY 42718

July 24, 2026
William Parsons, Reviewer

SOURCE ID:	21-217-00053
AGENCY INTEREST:	48624
ACTIVITY:	APE20260001

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SECTION 1 – SOURCE DESCRIPTION

SIC Code and description: 3446, Architectural and Ornamental Metal Work

Single Source Det. ☐ Yes ☒ No If Yes, Affiliated Source AI:

Source-wide Limit ☒ Yes ☐ No If Yes, See Section 4, Table A

28 Source Category ☐ Yes ☒ No If Yes, Category:

County: Taylor

Nonattainment Area ☒ N/A ☐ PM₁₀ ☐ PM_{2.5} ☐ CO ☐ NO_x ☐ SO₂ ☐ Ozone ☐ Lead

If yes, list Classification:

PTE* greater than 100 tpy for any criteria air pollutant ☒ Yes ☐ No

If yes, for what pollutant(s)?

☐ PM₁₀ ☐ PM_{2.5} ☐ CO ☐ NO_x ☐ SO₂ ☒ VOC

PTE* greater than 250 tpy for any criteria air pollutant ☒ Yes ☐ No

If yes, for what pollutant(s)?

☐ PM₁₀ ☐ PM_{2.5} ☐ CO ☐ NO_x ☐ SO₂ ☒ VOC

PTE* greater than 10 tpy for any single hazardous air pollutant (HAP) ☒ Yes ☐ No

If yes, list which pollutant(s): Ethyl Benzene, Isophorone, Methyl Isobutyl Ketone, Toluene, Xylenes

PTE* greater than 25 tpy for combined HAP ☒ Yes ☐ No

*PTE does not include self-imposed emission limitations.

Description of Facility:

Campbellsville Industries Inc. constructs a variety of architectural and ornamental products including cupolas, steeples, towers, railings, and louvers. These products are customized to meet the needs and orders of their customers.

SECTION 2 – CURRENT APPLICATION AND EMISSION SUMMARY FORM

Permit Number: F-26-030

Activity: APE20260001

Application Received: February 20, 2026 Application Complete Date(s): April 21, 2026

Permit Action: ☐ Initial ☒ Renewal ☐ Significant Rev ☐ Minor Rev ☐ Administrative

Construction/Modification Requested? ☐ Yes ☒ No

Previous 502(b)(10) or Off-Permit Changes incorporated with this permit action ☐ Yes ☒ No

Description of Action:

APE20260001 Conditional Major Renewal:

The application, received February 20, 2026, is for the renewal of the facility's Conditional Major air permit. In the renewal permit, the permit language has been updated to meet the Division's editorial standards and 401 KAR 63:020 applicability has been applied to combustion insignificant activities.

F-26-030 Emission Summary		
Pollutant	2025 Actual (tpy)	PTE F-26-030 (tpy)
CO	0.044	0.66
NO _x	0.053	0.83
PT	0.0050	1.84
PM ₁₀	0.0050	1.84
PM _{2.5}	0.0043	1.50
SO ₂	0.00032	1.86
*VOC	0.86	935.4
Lead	0.00015	0.042
Greenhouse Gases (GHGs)		
Carbon Dioxide	63.34	1036
Methane	0.0012	0.018
Nitrous Oxide	0.0012	0.0018
CO ₂ Equivalent (CO ₂ e)	63.68	1037
Hazardous Air Pollutants (HAPs)		
*1,6-Hexamethylene Diisocyanate	0.0073	5.49
Cumene	0.0073	5.55
*Ethyl Benzene	0.074	55.64
*Formaldehyde	0.0078	5.90
*Isophorone	0.27	207.0
Methanol	0	4.81
*Methyl Isobutyl Ketone	0.24	182.9
Methyl Methacrylate	0.0061	4.60
*Naphthalene	0.0073	5.55
Styrene	0.0061	4.60
*Toluene	0.24	195.8
*Xylenes (Total)	0.43	328.6
*Combined HAPs:	1.31	1006

*There are source-wide limits on the potential to emit VOC to 90 tpy, combined HAP to 22.5 tpy, individual HAP to 9 tpy, Ethyl Benzene to 1.53 tpy, Formaldehyde to 0.287 tpy, Naphthalene to 0.068 tpy, and 1,6-Hexamethylene Diisocyanate to 0.007 tpy.

SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS

Emission Unit #01 Spray Coating and Solvent Cleanup (EP01)				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM	2.34 lbs/hr	401 KAR 59:010, Section 3(2)	Material Balance & MSDS, 65% Paint PM Transfer Efficiency	Fabric Filter, 99% C.E., Enclosure 100% Capture, Daily Pressure Drop Reading
PM	20% opacity	401 KAR 59:010, Section 3(1)	N/A	Weekly Stack Visual Observation
VOC	90 tpy of VOC emissions	To Preclude 401 KAR 52:020	Material Balance & SDS	Recordkeeping Requirements
Single HAP	9.0 tpy of individual HAP emissions	To Preclude 401 KAR 52:020	Material Balance & SDS	Recordkeeping Requirements
Combined HAP	22.5 tpy of combined HAP emissions	To Preclude 401 KAR 52:020	Material Balance & SDS	Recordkeeping Requirements
Ethyl Benzene	1.53 tpy	401 KAR 63:020	Material Balance & SDS	Recordkeeping Requirements
Formaldehyde	0.287 tpy	401 KAR 63:020	Material Balance & SDS	Recordkeeping Requirements
Naphthalene	0.068 tpy	401 KAR 63:020	Material Balance & SDS	Recordkeeping Requirements
1, 6-Hexamethylene Diisocyanate	0.007 tpy	401 KAR 63:020	Material Balance & SDS	Recordkeeping Requirements

Initial Construction Date: 1977

Process Description:

Spray coating of metal substrates occurs within a spray booth with a fabric filter. The maximum spray capacity is 13.47 gallons per hour. The control efficiency of the fabric filter is 99%. This efficiency was confirmed by the manufacturer on page 50 of 282 in the conditional major initial application (APE20150002).

Applicable Regulation:

401 KAR 59:010, *New process operations*, applies to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulates in 401 KAR Chapter 59, commenced on or after July 2, 1975.

Emission Unit #01 Spray Coating and Solvent Cleanup (EP01)

State Origin Requirement:

401 KAR 63:020, *Potentially hazardous matter and toxic substance emissions*, applies to each affected facility which emits or may emit potentially hazardous matter or toxic substances, provided such emissions are not elsewhere subject to the provisions of the administrative regulations of the Division for Air Quality.

Comments:

Two spray guns are on site. One has a 10.5 gallon per hour maximum capacity, and the other has a 16.4 gallon per hour maximum capacity. With the largest orifice equipped to the largest capacity gun, there is a 13.47 gallon per hour maximum capacity. Only one spray gun can be operated at a time.

The emissions from paint coating are calculated using mass balances. A transfer efficiency of 65% is assumed for calculating PM/PM₁₀ emissions. A particulate matter control efficiency of 99% is assumed for the spray booth filters, and a capture efficiency of 100% is assumed for the spray booth.

Emission Unit #02 Foam Packaging (EP02)

Initial Construction Date: 1967

Process Description:

A spray gun is used for foam dispersion with a maximum application rate of 54 gallons per hour.

State Origin Requirement

401 KAR 63:020, *Potentially hazardous matter and toxic substance emissions*, applies to each affected facility which emits or may emit potentially hazardous matter or toxic substances, provided such emissions are not elsewhere subject to the provisions of the administrative regulations of the Division for Air Quality

Comments:

A spray gun is used to mix and apply a two part polyurethane foam solution. The foam is used for packaging and shipping purposes. The method used for estimating MDI emissions was taken from page 5-9 of the *MDI Emissions Reporting Guidelines for the Polyurethane Industry* by the American Chemistry council (May 2012). K_{MDI} was assumed to equal one (1) and the temperature was assumed to be 77 °F. See the equation below taken from the aforementioned source. The emission factor used assuming 8760 hours of operation is 8.60×10^{-6} lb/ton MDI.

$$L_{fd} = VT_{air} * (1 / 359) * (273.15 / T_{proc}) * (VP_{MDI} / 760) * M_w * K_{MDI}$$

Where:

L_{fd}	=	emissions lb/yr
VT_{air}	=	total annual volume of displaced air in ft ³ /year by all lines
T_{proc}	=	process temperature in K (maximum temperature of the MDI)
VP_{MDI}	=	vapor pressure of MDI in mm Hg at process temperature
M_w	=	250.26 (this is the molecular weight of MDI)
K_{MDI}	=	adjustment factor to the vapor pressure that is a function of MDI concentration in the feedstock and the temperature
359	=	the molar volume of an ideal gas in ft ³ /lb-mole @ 0 °C and 1-atmosphere

SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS (CONTINUED)

Testing Requirements\Results

Emission Unit(s)	Control Device	Parameter	Regulatory Basis	Frequency	Test Method	Permit Limit	Test Result	Thruput and Operating Parameter(s) Established During Test	Activity Graybar	Date of last Compliance Testing
N/A										

Footnotes:

SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS

Table A - Group Requirements:

Emission and Operating Limit	Regulation	Emission Unit
90 tpy of VOC emissions	401 KAR 52:030, Federally-enforceable permits for nonmajor sources	Source-wide
9.0 tpy of individual HAP emissions	To preclude major source status for HAP	Source-wide
22.5 tpy of combined HAP emissions	To preclude major source status for HAP	Source-wide
1.53 tpy of Ethyl Benzene	401 KAR 63:020	Source-wide
0.287 tpy of Formaldehyde	401 KAR 63:020	Source-wide
0.068 tpy of Naphthalene	401 KAR 63:020	Source-wide
0.007 tpy of 1, 6-Hexamethylene Diisocyanate	401 KAR 63:020	Source-wide

Table B - Summary of Applicable Regulations:

Applicable Regulations	Emission Unit
401 KAR 59:010, <i>New process operations.</i>	EU 01
401 KAR 63:020, <i>Potentially hazardous matter or toxic substances.</i>	EU 01, 02

Table C - Summary of Precluded Regulations:

Precluded Regulations	Emission Unit
401 KAR 52:020, <i>Title V permits</i>	

SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS (CONTINUED)

Table D - Summary of Non Applicable Regulations:

Non Applicable Regulations	Emission Unit
N/A	

Air Toxic Analysis

401 KAR 63:020, *Potentially Hazardous Matter or Toxic Substances*

The Division for Air Quality (Division) has performed AERMOD on September 16, 2016 of potentially hazardous matter or toxic substances (1, 6-Hexamethylene Diisocyanate, 2-Butoxy Ethanol, Acetone, Antimony, Beryllium, Cadmium, Chromium V1, Cobalt, Cumene, Ethyl Benzene, Formaldehyde, Hydrofluoric Acid, Isophorone, Manganese, Methanol, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, Methylene Diphenyl Diisocyanate, Methyl Methacrylate, Nickel, Phosphoric Acid, Sulfuric Acid, Styrene, Toluene, Vinyl Acetate, Vinyl Chloride, Xylenes) that may be emitted by the facility based upon the process rates, material formulations, stack heights and other pertinent information provided by the applicant. Based upon this information, the Division has determined that the conditions outlined in this permit will assure compliance with the requirements of 401 KAR 63:020.

Single Source Determination

N/A

SECTION 5 – PERMITTING HISTORY

Permit	Permit Type	Activity #	Complete Date	Issuance Date	Summary of Action	PSD/Syn Minor
F-16-021	Initial	APE20150002	9/3/2015	8/5/2016	Initial Operating Permit	Syn Minor
F-16-021 R1	Minor Revision	APE20160001	9/28/2016	10/12/16	Minor Revision, Addition of State Origin Requirements	N/A
F-21-009	Renewal	APE20210001	3/17/2021	8/22/2021	Renewal Permit	N/A
F-21-009 R1	Admin. Change	APE20220001	1/13/2022	2/20/2022	Ownership Change	N/A

SECTION 6 – PERMIT APPLICATION HISTORY

None

APPENDIX A – ABBREVIATIONS AND ACRONYMS

AAQS	– Ambient Air Quality Standards
BACT	– Best Available Control Technology
Btu	– British thermal unit
CAM	– Compliance Assurance Monitoring
CO	– Carbon Monoxide
Division	– Kentucky Division for Air Quality
ESP	– Electrostatic Precipitator
GHG	– Greenhouse Gas
HAP	– Hazardous Air Pollutant
HF	– Hydrogen Fluoride (Gaseous)
MSDS	– Material Safety Data Sheets
mmHg	– Millimeter of mercury column height
NAAQS	– National Ambient Air Quality Standards
NESHAP	– National Emissions Standards for Hazardous Air Pollutants
NO _x	– Nitrogen Oxides
NSR	– New Source Review
PM	– Particulate Matter
PM ₁₀	– Particulate Matter equal to or smaller than 10 micrometers
PM _{2.5}	– Particulate Matter equal to or smaller than 2.5 micrometers
PSD	– Prevention of Significant Deterioration
PTE	– Potential to Emit
SO ₂	– Sulfur Dioxide
TF	– Total Fluoride (Particulate & Gaseous)
tpy	– Tons Per Year
VOC	– Volatile Organic Compounds