

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

Title V, Construction / Operating
Permit: V-26-047

Astemo Americas, Inc. - Berea
301 Mayde Road
Berea, KY 40403

September 1, 2026
Jonathon Hughes, Reviewer

SOURCE ID:	21-151-00042
AGENCY INTEREST:	2859
ACTIVITYs:	APE20250001; APE20250002

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SECTION 1 – SOURCE DESCRIPTION

SIC Code and description: 3714, Motor Vehicle Parts and Accessories

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: Madison

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): *Glycol Ether (DGME)*

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

*PTE does not include self-imposed emission limitations.

Description of Facility:

Astemo Americas, Inc. - Berea manufactures suspension and brake products for automobile and light duty trucks. The plant consists of coating lines (each capable of processing approximately 960 pieces per hour) and chromium electroplating lines (each capable of plating 360 parts per hour). They coat shocks and struts for use in automobiles.

SECTION 2 – CURRENT APPLICATION AND EMISSION SUMMARY FORM

Permit Number: V-26-047

Activities: APE20250001, APE20250002

Received: August 20, 2025
October 30, 2025

Application Complete Dates: October 1, 2025
October 31, 2025

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

Construction/Modification Requested? ☒ Yes ☐ No NSR Applicable? ☐ Yes ☒ No

Previous 502(b)(10) or Off-Permit Changes incorporated with this permit action ☒ Yes ☐ No
APE20240002: Addition of two boilers (EU 03 - EP 25 & 26), approval issued 3/22/2024.

Description of Action:

APE20250001

Title V renewal application. Includes the addition of the Zinc Coating Line (EU 01, EP 27), (combined with the minor revision below) Facility has requested a 90 tpy VOC limit to preclude major source status for criteria pollutants. The facility will remain a major source for HAPs. VOC emission factor updated for electrostatic lines 1 & 2 based on 6:1 paint:thinner ratio.

APE20250002

Title V minor revision which includes the Zinc Coating Line (EU 01, EP 27) above. Also, there is a parts washer being added as an insignificant activity that uses a VOC based cleaning solvent.

V-26-047 Emission Summary				
Pollutant	2024 Actual (tpy)	Previous PTE V-20-033 (tpy)	Change (tpy)	Revised PTE V-26-047 (tpy)
CO	1.80	6.76	+1.1	7.81
NO _x	2.14	7.66	+1.2	8.91
PT	1.91	71.5**	+29.5	101**
PM ₁₀	1.91	66.7**	+29.6	96.3**
PM _{2.5}	1.50	65.7**	+29.9	95.6**
SO ₂	0.01	0.13	0	0.13
VOC	19.3	71.5	+17.1	88.6*
Lead	0.000007	0.00003	0	0.00003
Greenhouse Gases (GHGs)				
Carbon Dioxide	2538	5671	+1463	7134
Methane	0.05	0.265	+0.025	0.29
Nitrous Oxide	0.06	1.58	-0.09	1.49
CO ₂ Equivalent (CO ₂ e)	2558	6147	+1438	7585
Hazardous Air Pollutants (HAPs)				
Chromium	0.0003	0.008	0	0.008
Glycol Ethers***	10.2	38.4	0	38.4
Triethyl Amine	1.50	5.64	0	5.64
Combined HAPs:	11.5	44.0	+0.5	44.5

*Note: Emissions limited by federally-enforceable emission limitations to ensure the source remains below major source thresholds to be classified as major stationary source as defined in 401 KAR 52:001 and 401 KAR 51:001.

**Pre-Control Emissions.

***Diethylene Glycol Monobutyl Ether (DGME) CAS 112-34-5.

SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS

Emission Unit #01 Spray Painting Operations (EP1, EP16, 02, EP17, EP27)				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM	20% Opacity	401 KAR 59:010, Section 3(1)	N/A	Weekly Visual Observation
	2.34 lbs/hr	401 KAR 59:010, Section 3(2)	Material Balance & SDS	Dry Filters, 99% C.E.,
VOC	90 tons/year	To preclude major source for criteria pollutants	Material Balance & SDS	Monthly recordkeeping, 12 month rolling total
HAP	2.6 lb/gal	40 CFR Part 63, Subpart M	Material Balance & SDS	As prescribed by subpart M
Initial Construction Dates: Electrostatic Line 1 (ES1) EP1 Electrostatic Spray Booth #1 (ES1), 1999 EP16 Electrostatic Spray Booth #3 (ES1), 2007 Electrostatic Line 2 (ES2) 02 Electrostatic Spray Booth #2 (ES2), 2001, Modified 2016 EP17 Manual Spray Gun within (ES2), 2007 Electrocoat Line 2 (EC2) EP27 Electrocoat Spray Booth #2 (Zinc Coating Line) (EC2), 2025				
Process Description: Electrostatic Spray Paint Booths (3) for painting shock absorbers. Electrostatic Spray Booths #1, #2 and #3 operate at the rate of 2.14 gals/hr each. Electrocoat Line 2 (EC2) Spray Booth #2 operates at the rate of 1.76 gals/hr. Manual spray gun (EP17) operates at the rate of 0.50 gal/hr. All Booths are controlled by dry booth filters (Columbus Industries, supra I mini-mesh) with a 99% control efficiency. EP01 and EP16 comprise electrostatic line one (ES1) & EP02 and EP17– electrostatic line two (ES2). There are 3 NG ovens. Oven 1 (1.5 mmBtu/hr) is shared by EP01 and EP16 booths. Oven 2 (0.5 mmBtu/hr) is shared by EP02 and EP17. Oven 3 (2.0 mmBtu/hr) is used by EP27. The coatings used at ES1 and ES2 are water based paints mixed with Tokico Thinner 5050 in a 6:1 ratio. Coatings used at EC2 are mixed with reducer in a 2:1 ratio.				
Applicable Regulations: 401 KAR 59:010, New process operations. 401 KAR 63:002, Section 2(4)(rrr) 40 C.F.R. 63.3880 through 63.3981, Tables 1 through 5, and Appendix A (Subpart M), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.				
Comments: 401 KAR 59:225, New miscellaneous metal parts and products surface coating operations does not apply since the facility source-wide PTE VOC emissions is below a major source threshold. Facility has requested to remain a major source of HAP and retain applicability of NESHAPS Subpart				

Emission Unit #01 Spray Painting Operations (EP1, EP16, 02, EP17, EP27)

MMMM. In APE20250001, the facility explored the option of becoming a conditional major source in light of taking a 90 tons per year VOC limit and be an area source of HAPs. However, when air toxics modeling was completed for Diethylene Glycol Monobutyl Ether (DGME), part of the glycol ethers, a resulting limit of 0.19 tons per year (from AERMOD modeling ran 10/10/2025) would be required to comply with 401 KAR 63:020 (since Subpart MMMM would have been precluded). Instead of accepting the 0.19 tpy limit, the facility requested to remain a major source of HAP emissions and comply with Subpart MMMM.

For purposes of emission limitations for Subpart MMMM: All units are considered to be classified as “existing”. Since the affected source consists of a surface coating facility that has existed since 1999, prior to August 13, 2002, the affected source (including the collection of all coating operations) cannot be considered “new”. This means the affected source can be considered only “existing” or “reconstructed”. All units constructed after August 13, 2002 have been grouped as part of the existing source as each individual project separately (2007 additions, 2016 modification and 2025 addition) did not meet the definition of “reconstruction” in 40 CFR 63.2. For each of the three projects aforementioned, the fixed capital cost of the new components did not exceed 50 percent of the fixed capital cost that would be required to construct a comparable new source. Determination of reconstruction should aggregate costs of projects stemming from a “single planning decision”. Phased constructions shall be considered together for applying 50 percent criteria.

CAM Discussion

Facility is a major source for at least one regulated air pollutant (HAP, DGME) as defined by CAM, so CAM is evaluated for all other regulated air pollutants. Other than DGME emitted at EP01, EP02 and EP16 which has a potential pre-control emissions greater than 10 tons per year at each unit, there are no other regulated air pollutants with a potential pre-control emissions greater than a major source threshold at these or any other units at the facility. See Section 5 for further information.

Emission Unit #02 Chrome Plating Operations (EP15, EP18, EP19 and EP23)				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
Opacity	20%	401 KAR 59:010, Section 3(1)	N/A	Composite Mesh Pad & Scrubber, 95% C.E.
PM	2.34 lbs/hr	401 KAR 59:010, Section 3(2)	Stack test data	Composite Mesh Pad & Scrubber, 95% C.E.
Concentration of total chromium	0.015 mg/dscm (EP 15, 18, 19) 0.006 mg/dscm (EP 23)	40 CFR Part 63 Subpart N	Stack test data	Composite Mesh Pad & Scrubber, 95% C.E.

Initial Construction Date:

EP15 Chrome Plating line (CL5) (2005)
EP18 Chrome Plating line (CL6) (2011)
EP19 Chrome Plating line (CL7) (2011)
EP23 Chrome Plating line (CL8) (2016)

Process Description:

Hard chromium plating operation for CL5, CL6, CL7 and CL8 consumes approximately 5 gallons of chromic acid per hour (each) and maximum throughput is 1100 pieces per hour. Chromium and particulate emissions are controlled by composite mesh pad and packed bed combination scrubbers for each line with an overall 95% control efficiency.

Applicable Regulations:

401 KAR 59:010, New process operations

401 KAR 63:002, Section 2(4)(h) 40 C.F.R. 63.340 through 63.348, Table 1 (Subpart N), National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks

Comments:

Chromium Emission Factors for all four plating lines are based on actual stack test data. The primary operating scenario calls for monitoring of the pressure drop over the composite mesh pad as a means of demonstrating continued compliance with the emissions limit. The appropriate pressure drop was determined in the initial compliance test. A wetting agent is added to the chromium baths to control the surface tension. This practice allows for the ability to monitor the surface tension of the chromium bath, which shall be conducted as the alternate scenario for compliance and monitoring. The surface tension will be maintained below 40 dynes/cm as measured by stalagmometer or 33 dynes/cm as measured by a tensiometer. The alternate operating scenario is intended for use when the primary monitoring scenario is not available. The surface tension monitoring schedule (graduated up to once every 40 hours) is from the 2012 CFR for Subpart N. This is missing in the current eCFR but EPA did not intend to remove this language from the Subpart.

The facility is subject to standards for open surface small, hard chromium electroplating tanks. Small, hard chromium electroplating facility means a facility that performs hard chromium electroplating and has a maximum cumulative potential rectifier capacity less than 60 million amp-hr/yr. EP 15, 18 and 19 are considered to be existing under 40 CFR 63 Subpart N and have a limit of 0.015 mg/dscm for concentration of total chromium in the exhaust gas stream discharged to the atmosphere. EP 23 is considered to be new since it has been constructed after February 8, 2012. It has a limit of 0.006 mg/dscm for concentration of total chromium in the exhaust gas stream discharged to the atmosphere.

Emission Unit #03 Boilers (EP10, EP11, EP12, EP13, EP25 and EP26)				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
PM	0.56 lb/MMBtu for 10, 12 & 13 0.55 lb/MMBtu for 11 0.52 lb/MMBtu for 25 & 26	401 KAR 59:015, Section 4(1)(c)	AP-42 Table 1.4-2	Assumed based upon natural gas combustion
	20% opacity	401 KAR 59:015, Section 4(2)	N/A	Assumed based upon natural gas combustion
SO ₂	3.0 lbs/MMBtu for 10, 12 & 13 2.91 lbs/MMBtu for 11 2.67 lbs/MMBtu for 25 & 26	401 KAR 59:015, Section 5(1)	AP-42 Table 1.4-2	Assumed based upon natural gas combustion
Initial Construction Date: EP10 Boiler – ES1 – 2.5 mmBTU/hr (1999) EP11 Boiler – ES2 – 2.25 mmBTU/hr (2001) EP12 Boiler – EC1 – 4 mmBTU/hr (1999) EP13 Boiler – EC2 – 2 mmBTU/hr (1999) EP25 Shock Oil Boiler 1 – 1.5 mmBTU/hr (2024) EP26 Shock Oil Boiler 2 – 1.5 mmBTU/hr (2024) Process Description: Six natural gas fired boilers. Applicable Regulations: 401 KAR 59:015, New indirect heat exchangers. 401 KAR 63:002 Section 2(4)(iii) 40 C.F.R. 63.7480 through 63.7575, Tables 1 through 13 (Subpart DDDDD), National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. Comments: See Appendix B for PM and SO₂ emission limit basis. Energy assessment conducted April 12, 2016.				

Emission Unit #04 Diesel Fired Emergency Generators (EP20, EP21 and EP 24)

Initial Construction Date:

EP20 Certified 49HP diesel CI engine with a displacement of 2.4L (2011)
EP21 Certified 54HP diesel CI engine with a displacement of 4L (2011)
EP24 John Deere 86HP 4045 HF 280 diesel CI 4.5L engine (2017)

Process Description:

Emergency use only.

Applicable Regulations:

401 KAR 60:005 Section 2(2)(oooo) 40 C.F.R. 60.4200 through 60.4219, Tables 1 through 8 (Subpart IIII), Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

401 KAR 63:002 Section 2(4)(eeee) 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (Subpart ZZZZ), National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the requirements of 40 CFR 60 Subpart IIII. No further requirements apply under this part.

Comments: See above

Emission Unit #05 Natural Gas Fired Emergency Generator (EP22)

Initial Construction Date:

EP22 Certified 190HP NG SI engine with a displacement of 6.8L (2012)

Process Description:

Emergency use only.

Applicable Regulations:

401 KAR 60:005 Section 2(2)(pppp) 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

401 KAR 63:002 Section 2(4)(eeee) 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (Subpart ZZZZ), National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the requirements of 40 CFR 60 Subpart JJJJ. No further requirements apply under this part.

Comments: See above

Insignificant Activity: Parts Washer (002)				
Pollutant	Emission Limit or Standard	Regulatory Basis for Emission Limit or Standard	Emission Factor Used and Basis	Compliance Method
VOC	90 tons/year	To preclude major source status for criteria pollutants	Material Balance & SDS	Monthly recordkeeping, 12-month rolling total
Initial Construction Date: 12/2025 Process Description: Parts washer to clean incoming parts from suppliers. Washer uses non-chlorinated solvents containing 100% VOC and no HAPs/air toxics. Maximum annual solvent usage is 500 gallons. Applicable Regulations: None Comments: Maximum VOC potential to emit is 1.5 tons per year. 401 KAR 59:185, New solvent metal cleaning equipment does not apply since the facility source-wide PTE VOC emissions is below a major source threshold.				

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
02, CL 5-7	Scrubber	Total Cr	Subpart N	Initial	Method 306	15E-03 mg/dscm	5, 4E-03 6, 6E-03 7, 11E-03 mg/dscm	5, 887 parts/hr 6, 860 parts/hr 7, 1018 parts/hr	CMN20120002	9/25/2012
02, CL 7	Scrubber	Total Cr	Subpart N	Initial (re-test)	Method 306	15E-03 mg/dscm	14E-03 mg/dscm	1030 parts/hr	CMN20140001	5/7/2014
02, CL 7	Scrubber	Total Cr	Subpart N	Initial (re-test)	Method 306	15E-03 mg/dscm	10E-03 mg/dscm	1765 parts/hr	CMN20140003	7/31/2014
02, CL 5-8	Scrubber	Total Cr	Subpart N	Initial for 8, re-test for others	Method 306	5,6 &7 15E-03 8, 6E-03 mg/dscm	5,6 3E-03 7, 8E-03 8, 2E-03 mg/dscm	5, 514 parts/hr 6, 625 parts/hr 7, 746 parts/hr 8, 662 parts/hr	CMN20170001	10/19/2017
02, CL 5, 6	Scrubber	Total Cr	Subpart N	Initial (re-test)	Method 306	15E-03 mg/dscm	5, 9E-03 6, 10E-03 mg/dscm	5, 889 parts/hr 6, 1019 parts/hr	CMN20180001	9/12/2018

Footnotes: Subpart N requires only the initial performance test, however the facility has performed follow up testing on some units at a higher throughput rate than the initial test for added flexibility.

SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS

Table A - Group Requirements:

Emission and Operating Limit	Regulation	Emission Unit
90 tpy of VOC emissions	To preclude major source status for criteria pollutants	Source-wide

Table B - Summary of Applicable Regulations:

Applicable Regulations	Emission Unit
401 KAR 59:010 , New process operations	01 (EP1, EP16, 02, EP17, EP27), 02 (EP15, EP18, EP19, EP23)
401 KAR 59:015 , New indirect heat exchangers	03 (EP10, EP11, EP12, EP13, EP25, EP26)
401 KAR 60:005 Section 2(2)(oooo) 40 C.F.R. 60.4200 through 60.4219, Tables 1 through 8 (Subpart IIII), Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	04 (EP20, EP21, EP24)
401 KAR 60:005 Section 2(2)(pppp) 40 C.F.R. 60.4230 through 60.4248, Tables 1 through 4 (Subpart JJJJ), Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.	05 (EP22)
401 KAR 63:002, Section 2(4)(h) 40 C.F.R. 63.340 through 63.348, Table 1 (Subpart N), National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.	02 (EP15, EP18, EP19, EP23)
401 KAR 63:002, Section 2(4)(rrr) 40 C.F.R. 63.3880 through 63.3981, Tables 1 through 5, and Appendix A (Subpart MMMM), National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products	01 (EP1, EP16, 02, EP17, EP27)
401 KAR 63:002 Section 2(4)(eeee) 40 C.F.R. 63.6580 through 63.6675, Tables 1a through 8, and Appendix A (Subpart ZZZZ), National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.	04 (EP20, EP21, EP24), 05 (EP22)
401 KAR 63:002 Section 2(4)(iii) 40 C.F.R. 63.7480 through 63.7575, Tables 1 through 15 (Subpart DDDDD), National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters	03 (EP10, EP11, EP12, EP13, EP25, EP26)

Table C - Summary of Precluded Regulations:

N/A

SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS (CONTINUED)

Table D - Summary of Non Applicable Regulations:

N/A

Air Toxic Analysis

N/A

Single Source Determination

N/A

SECTION 5 – COMPLIANCE ASSURANCE MONITORING

40 CFR 64, *Compliance assurance monitoring* (CAM) applies to a pollutant-specific emissions unit at a major source that is required to obtain a part 70 or 71 permit if the unit satisfies all of the following criteria:

- (1) The unit is subject to an emission limitation or standard for the applicable regulated air pollutant (or a surrogate thereof), other than an emission limitation or standard that is exempt under 40 CFR 64.2(b)(1);
- (2) The unit uses a control device to achieve compliance with any such emission limitation or standard; and
- (3) The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source.

CAM for DGME

Emission Unit	Criteria 1 (Y/N)	Criteria 2 (Y/N)	Criteria 3 (Y/N)	Does CAM apply? If Y for criteria 1, 2, AND 3, then Yes, Otherwise, No.
01 (EP1)	N	N	Y	No
01 (02)	N	N	Y	No
01 (EP16)	N	N	Y	No

* If Yes, CAM applies for any of the emission units above, then see further clarification for each listed emission unit in **Section 3**.

SECTION 6 – PERMITTING HISTORY

Permit	Permit Type	Activity #	Complete Date	Issuance Date	Summary of Action	PSD/Syn Minor
V-03-046	Initial	50840	8/18/1999	12/21/2004	Initial Title V Permit	N/A
V-03-046 R1	Minor Revision	APE20050002	10/12/2005	11/30/2005	Construction of new Cr Plating Line	N/A
V-03-046 R2	Minor Revision	APE20060003	1/23/2007	1/25/2007	Construction of new spray booth	N/A
V-03-046 R3	Minor Revision	APE20070001	7/20/2007	10/25/2007	Replace an applicator and to construct a manual spray booth	N/A
V-09-025	Renewal	APE20090001	7/16/2009	4/16/2010	Renewal	N/A
V-09-025 R2	Minor Revision	APE20110004	8/18/2011	10/25/2011	Removal of EP3, 4, 5 and construction of EP18 & 19	N/A
V-15-002	Renewal	APE20140001	1/23/2015	9/4/2015	Renewal	N/A
V-15-002 R1	Minor Revision	APE20150001	1/5/2016	3/8/2016	Replace EP02 Paint Booth	N/A
V-15-002 R2	Minor Revision	APE20160001	7/20/2016	9/30/2016	Add Chrome Plating Process	N/A
V-15-003 R3	Minor Revision	APE20180002	6/28/2018	11/11/2018	Add fire protection generator (EP24) remove EP14	N/A
V-20-033	Renewal	APE20200001	11/18/2020	5/31/2021	Renewal	N/A
	Admin Amend	APE20210001	4/7/2021	5/31/2021	Name Change	N/A

SECTION 7 – PERMIT APPLICATION HISTORY
N/A

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)
VOC	– Volatile Organic Compounds

APPENDIX B – INDIRECT HEAT EXCHANGER EMISSIONS LIMITATIONS

EU	Fuel	Capacity (MMBtu/hr)	Construction Date	Notes/ Removal Date	Basis for PM Limit	Total Heat Input Capacity for PM Limit (MMBtu/hr)	Basis for SO₂ Limit	Total Heat Input Capacity for SO₂ Limit (MMBtu/hr)
03(10)	Natural Gas	2.5	1999	N/A	Section 4(1)(a)	8.5	Section 5(1)(a)1.	8.5
03(11)	Natural Gas	2.25	2001	N/A	Section 4(1)(c)	10.75	Section 5(1)(c)2.	10.75
03(12)	Natural Gas	4	1999	N/A	Section 4(1)(a)	8.5	Section 5(1)(a)1.	8.5
03(13)	Natural Gas	2	1999	N/A	Section 4(1)(a)	8.5	Section 5(1)(a)1.	8.5
03(25)	Natural Gas	1.5	2024	N/A	Section 4(1)(c)	13.75	Section 5(1)(c)2.	13.75
03(26)	Natural Gas	1.5	2024	N/A	Section 4(1)(c)	13.75	Section 5(1)(c)2.	13.75