Commonwealth of Kentucky  
Division for Air Quality  

STATEMENT OF BASIS / SUMMARY

Conditional Major, Operating Permit: F-22-021

Modern Welding Company of Owensboro, Inc.  
1450 East Parrish Avenue  
Owensboro, KY 42303

June 15, 2022  
Brett Thompson, Reviewer

SOURCE ID: 21-059-00013  
AGENCY INTEREST: 37838  
ACTIVITY: APE20220001

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SECTION 1 – SOURCE DESCRIPTION

SIC Code and description: 3443, Fabricated Plate 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: Daviess
Nonattainment Area ☒ N/A ☐ PM10 ☐ PM2.5 ☐ CO ☐ NOx ☐ SO2 ☐ Ozone ☐ Lead

PTE* greater than 100 tpy for any criteria air pollutant ☒ Yes ☐ No If yes, for what pollutant(s)? ☒ PM10 ☒ PM2.5 ☐ CO ☐ NOx ☐ SO2 ☒ VOC

PTE* greater than 250 tpy for any criteria air pollutant ☒ Yes ☐ No If yes, for what pollutant(s)? ☒ PM10 ☒ PM2.5 ☐ CO ☐ NOx ☐ SO2 ☒ VOC

PTE* greater than 10 tpy for any single hazardous air pollutant (HAP) ☒ Yes ☐ No If yes, list which pollutant(s): Styrene, Xylenes (Total)

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

*PTE does not include self-imposed emission limitations.

Description of Facility:
Modern Welding Company of Owensboro is a fabricated metal manufacturing facility located at 1450 East Parrish Avenue, Owensboro, Kentucky. The Owensboro facility is a fabricator of steel products, which varies depending on client requests. The following is a list of principle products made at the Owensboro facility:

- Underground and aboveground atmospheric steel storage tanks;
- ASME pressure vessels;
- Plate fabrication includes duct work, bins, hoppers and miscellaneous other custom fabrications;
- Carbon steel, stainless steel and aluminum welding and fabrication; and
- Steel products warehouse with inventory of plates, sheets, bars, angles, channels, I-beams, wide flange beams, expanded metal, grating, floor plate, etc.
- Custom forming, rolling, shearing, cutting, and other operations are available.

Operators perform rolling, cutting, bending, breaking, shearing, punching, drilling, welding, blasting, and painting of miscellaneous metal fabrications using various grades of steel and aluminum.
Historically, Modern Welding has used surface coatings containing the MFHAPs identified in 40 CFR 63, Subpart XXXXXX, and accordingly the provisions of Subpart XXXXXX were incorporated into the permit. Currently, Modern Welding does not use surface coatings containing the MFHAPs that would make them subject to this regulation, however, Modern Welding has opted to maintain the provisions in the permit as an applicable regulation and continue to comply with them, so that they are not restricted on the surface coatings they can apply for and use.

Modern Welding is using welding consumables and steel grit blasting materials that may or may not contain the MFHAPs identified in 40 CFR 63, Subpart XXXXXX. Modern Welding has opted to include the provisions of 40 CFR 63, Subpart XXXXXX in the permit for all welding consumables and steel grit blasting materials as an applicable regulation and to comply with them, so that they are not restricted on the welding consumables and steel grit blasting material they can apply for and use.
SECTION 2 – CURRENT APPLICATION AND EMISSION SUMMARY FORM

Permit Number: F-22-021 Activities: APE20220001

Received: March 11, 2022 Application Complete Date(s): May 16, 2022

Permit Action: ☒ 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
• APE20200001: 502(b)(10) Change – Replacement of the Messer Plasma Table system

Description of Action:
• In this renewal application, Modern Welding Company of Owensboro has requested no changes to the permit. Minor changes to the permit were made, however, to be consistent and clear.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>2021 Actual (tpy)</th>
<th>PTE F-22-021 (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>0.0023</td>
<td>3.86</td>
</tr>
<tr>
<td>NOx</td>
<td>0.99</td>
<td>19.32</td>
</tr>
<tr>
<td>PT</td>
<td>1.20</td>
<td>*30.70</td>
</tr>
<tr>
<td>PM10</td>
<td>1.17</td>
<td>*42.96</td>
</tr>
<tr>
<td>PM2.5</td>
<td>0.90</td>
<td>*29.20</td>
</tr>
<tr>
<td>SO2</td>
<td>0.0000165</td>
<td>0.028</td>
</tr>
<tr>
<td>VOC</td>
<td>12.72</td>
<td>**253.50</td>
</tr>
<tr>
<td>Lead</td>
<td>0.00016</td>
<td>0.011</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>3.29</td>
<td>5487</td>
</tr>
<tr>
<td>Methane</td>
<td>0.000063</td>
<td>0.10</td>
</tr>
<tr>
<td>Nitrous Oxide</td>
<td>0.000060</td>
<td>0.10</td>
</tr>
<tr>
<td>CO2 Equivalent</td>
<td>3.29</td>
<td>5520</td>
</tr>
<tr>
<td>Hazardous Air Pollutants (HAPs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td>0.68</td>
<td>***8.13</td>
</tr>
<tr>
<td>Methanol</td>
<td>0.68</td>
<td>***8.13</td>
</tr>
<tr>
<td>Styrene</td>
<td>3.06</td>
<td>***89.15</td>
</tr>
<tr>
<td>Toluene</td>
<td>0.68</td>
<td>***8.13</td>
</tr>
<tr>
<td>Xylenes (Total)</td>
<td>2.43</td>
<td>***47.27</td>
</tr>
<tr>
<td>Combined HAPs:</td>
<td>7.83</td>
<td>***167.80</td>
</tr>
</tbody>
</table>

*PTE listed includes permit required or integral control devices.
**Emissions limited to < 90 tpy to preclude 401 KAR 52:020.
***Emissions limited < 9 tpy to preclude 401 KAR 52:020.
****Emissions limited < 22.5 tpy to preclude 401 KAR 52:020.
### SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS

<table>
<thead>
<tr>
<th>Emission Point 001 (EP 001): Blast Room (Black Beauty)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pollutant</strong></td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>Opacity</td>
</tr>
<tr>
<td>PM</td>
</tr>
</tbody>
</table>

**Emission Point 001 (EP 001): Blast Room (Black Beauty)**

**Description:** Partially enclosed room with two manually-operated hoses for applying Black Beauty Grit to metal fabrications.

**Construction Commenced:** 1967

**Maximum Capacity:** 1.2 tons/hr

**Control Equipment:** Integral Filter Unit

**APPLICABLE REGULATIONS:**

401 KAR 61:020, *Existing process operations*. This regulation is applicable to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulates, commenced before July 2, 1975.

**Comments:**

Emission factors were obtained using the EPA PM Augmentation Tool and information from AP-42, Chapter 13.2.6-1. Emissions from the Blast Room consist of particulates. The controls considered in the emission calculations include a filter unit with a control efficiency of 94.4% for PM. This process does not use materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MHAP); therefore, 40 CFR 63, Subpart XXXXXX.

<table>
<thead>
<tr>
<th>Emission Unit 003: Welding Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pollutant</strong></td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>Opacity</td>
</tr>
<tr>
<td>PM</td>
</tr>
</tbody>
</table>
Emission Unit 003: Welding Operations

**Description:** Welding consists of steel and stainless-steel welding operations. The types of welders used in the welding process are SMAW, SAW, GTAW, GMAW and FCAW welders.

**Emission Point 003-01 (EP 003-01): Welding Operation – Carbon-Based Welding Consumables**
- **Description:** Carbon-based steel welding operations are performed within the building
- **Construction Commenced:** 1935
- **Max Capacity:** 75.4 lbs/hr
- **Control Equipment:** None

**Emission Point 003-02 (EP 003-02): Welding Operation – Stainless Steel-Based Welding Consumables**
- **Description:** Stainless Steel Welding operations controlled during specific operations by a mobile x-arm welding fume exhaust/filtration system.
- **Construction Commenced:** 1935
- **Max Capacity:** 75.4 lbs/hr
- **Control Equipment:** Mobile x-arm welding fume exhaust/filtration system

**APPLICABLE REGULATIONS:**
401 KAR 61:020, *Existing process operations*. This regulation is applicable to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulates, commenced before July 2, 1975.
401 KAR 63:002, Section 2(4)(vvvvv), 40 C.F.R. 63.11514 to 63.11523, Tables 1 to 2 (Subpart XXXXXX), *National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories*. This regulation is applicable to EU 003-01 and EU 003-02 because they use materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP) during welding processes.

**Comments:**
Emission factors used in emission calculations come from a combination of AP-42 Chapter 12.19, and an American Welding Society Technical Document provided by the permittee. For carbon-based welding (EP 003-01), the process is performed inside the building which provides a 70% control efficiency. For stainless steel-based welding, a mobile filtration system is used with a capture efficiency of 70% and a control efficiency of 99%.

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### Emission Point 004 (EP 004): Steel Grit Blasting

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit or Standard</th>
<th>Regulatory Basis for Emission Limit or Standard</th>
<th>Emission Factor Used and Basis</th>
<th>Compliance Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opacity</td>
<td>&lt; 20%</td>
<td>401 KAR 59:010, Section 3(1)(a)</td>
<td>N/A</td>
<td>Demonstrated by complying with 40 CFR 63, Subpart XXXXXX.</td>
</tr>
<tr>
<td>PM</td>
<td>For $P \leq 0.5$ tons/hr: 2.34 lbs/hr</td>
<td>401 KAR 59:010, Section 3(2)</td>
<td>0.006 lb/ton; Similar Facility Data</td>
<td>Compliance is assumed based on PTE and proper control device operation.</td>
</tr>
<tr>
<td></td>
<td>For $P \leq 30$ tons/hr: $E = 3.59P^{0.62}$</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Emission Point 004 (EP 004): Steel Grit Blasting

Description: Grit blasting machine system used to clean steel fabrications.

Construction Commenced: 1991

Maximum Capacity: 1.2 tons/hr

Controls: Integral Cartridge Filter Unit

APPLICABLE REGULATIONS:

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

401 KAR 63:002, Section 2(4)(vvvv), 40 C.F.R. 63.11514 to 63.11523, Tables 1 to 2 (Subpart XXXXXX), National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. This regulation is applicable to EU 004 because it uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP).

Comments:

Emission factors used in emissions calculations are historical emission factors from previous applications. The basis for particulate emission factors was provided in the previous permit renewal application and included the grit applied, material rejected, and uncontrolled grit blasting total PM EF to get the EF of 1.0 lb/ton (uncontrolled). Metal compound EFs were calculated based on the weight percentage of baghouse dust. This emission point is controlled by an integral cartridge filter unit with a control efficiency of 99.4%.

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Emission Point 005 (EP 005): Surface Coating & Cleanup Operations

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit or Standard</th>
<th>Regulatory Basis for Emission Limit or Standard</th>
<th>Emission Factor Used and Basis</th>
<th>Compliance Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opacity</td>
<td>&lt; 20%</td>
<td>401 KAR 59:010, Section 3(1)(a)</td>
<td>N/A</td>
<td>Weekly qualitative observations &amp; recordkeeping.</td>
</tr>
<tr>
<td>PM</td>
<td>2.34 lbs/hr</td>
<td>401 KAR 59:010, Section 3(2)</td>
<td>0.016 lb/ton; KYEIS</td>
<td>Compliance is assumed based on PTE and proper control device operation.</td>
</tr>
</tbody>
</table>

Emission Point 005 (EP 005): Surface Coating & Cleanup Operations

Description: Surface coating of metal tanks using a Magnum Flow Coater System (Mechanical Non-Atomized Application)

Construction Commenced: 1996

Maximum Capacity: 1.68 gal/hr coating; 1.0 gal/hr cleanup material

Control Equipment: Exhaust Filter

APPLICABLE REGULATIONS:

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

401 KAR 63:002, Section 2(4)(vvvv), 40 C.F.R. 63.11514 to 63.11523, Tables 1 to 2 (Subpart XXXXXX), National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine
Emission Point 005 (EP 005): Surface Coating & Cleanup Operations

**Metal Fabrication and Finishing Source Categories.** This regulation is applicable to EU 005 because it uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP).

**Comments:**
The emission factors used in the emission calculations are from MSDSs given in a previous application. The fabric filter has a control efficiency of 99.3% for PM. Cleanup material usage is based on 4 gallons of cleanup solvent used twice per 8 hour shift. Current paints do not include MFHAP; however, the permittee has opted to retain the provisions of 40 CFR 63, Subpart XXXXXX in the permit to have operational flexibility for paint changes in the future.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit or Standard</th>
<th>Regulatory Basis for Emission Limit or Standard</th>
<th>Emission Factor Used and Basis</th>
<th>Compliance Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opacity</td>
<td>&lt; 20%</td>
<td>401 KAR 59:010, Section 3(1)(a)</td>
<td>N/A</td>
<td>Weekly qualitative observations &amp; recordkeeping.</td>
</tr>
<tr>
<td>PM</td>
<td>2.34 lbs/hr</td>
<td>401 KAR 59:010, Section 3(2)</td>
<td>40 lbs/ton of fiberglass coating; MSDS</td>
<td>Monthly calculations, monitoring, recordkeeping.</td>
</tr>
</tbody>
</table>


**Description:** Fiberglass Coating of metal tanks

**Construction Commenced:** 1996

**Maximum Capacity:** 0.177 tons/hr fiberglass coating; 0.375 tons/hr cleanup material

**Control Equipment:** Integral Cartridge Filter Unit

**APPLICABLE REGULATIONS:**
401 KAR 59:010, *New process operations*. This regulation is applicable to each affected facility, associated with a process operation, which is not subject to another emission standard with respect to particulates, commenced on or after July 2, 1975.

**STATE-ORIGIN REQUIREMENTS:**
401 KAR 63:020, *Potentially hazardous matter or toxic substances*. This regulation is applicable to each affected facility which emits or may emit potentially hazardous matter or toxic substances.

**Comments:**
Emission factors used for PM in emissions calculations were based on historical applications. VOC and Xylenes emission factors were based on a weighted average of raw material throughput. Styrene emission factor was estimated from open molding and other composite processes. An integral filter cartridge with a control efficiency of 90% is used to control PM. Cleanup material usage is based on three gallons of cleanup solvent being used once per shift.
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit or Standard</th>
<th>Regulatory Basis for Emission Limit or Standard</th>
<th>Emission Factor Used and Basis</th>
<th>Compliance Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opacity</td>
<td>&lt; 20%</td>
<td>401 KAR 59:010, Section 3(1)(a)</td>
<td>N/A</td>
<td>Weekly qualitative observations &amp; recordkeeping.</td>
</tr>
<tr>
<td>PM</td>
<td>2.34 lbs/hr</td>
<td>401 KAR 59:010, Section 3(2)</td>
<td>EU 008: 2.71 lb/ton; EU 009: 1.8 lb/ton; Refer to comments</td>
<td>Compliance is assumed based on PTE and proper control device operation.</td>
</tr>
</tbody>
</table>

**Emission Point 008 (EP 008): Hypertherm® Plasma Table**

- **Description:** 12’ by 40’ cutting table with an oxyfuel torch and a plasma torch for automated cutting of metal plates.
- **Construction Commenced:** 2006; Modified 2020
- **Max Capacity:** 0.086 tons/hr
- **Control Equipment:** Integral Cartridge Filter Unit

**Emission Point 009 (EP 009): Portable Plasma Cutters**

- **Description:** Three portable units using plasma torches for manual cutting of metal.
- **Construction Commenced:** 1975
- **Max Capacity:** 0.0477 tons/hr
- **Control Equipment:** Building Enclosure

**APPLICABLE REGULATIONS:**

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

401 KAR 63:002, Section 2(4)(vvvvv), 40 C.F.R. 63.11514 to 63.11523, Tables 1 to 2 (Subpart XXXXXXX), *National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories*. This regulation is applicable to EU 008 and EU 009 because they use materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP) during welding processes.

**Comments:**

Emission factors used in the emission calculations for EP 008 and EP 009 are from Bromeen, 1995 and Kura, 2000 (Assessment of Air Emissions from Shipyard Cutting Processes) which are based on test data from plasma arc cutting of non-coated HY80 steel and coated carbon steel. For EP 008, the integral cartridge filter has been assigned a control efficiency of 94% for PM. For EP 009, the process is located inside the building providing a control efficiency of 70% for PM.
SECTION 3 – EMISSIONS, LIMITATIONS AND BASIS (CONTINUED)

Testing Requirements\Results
The source, at the time of permit F-22-021, has not been required to conduct any testing.
SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS

Table A - Group Requirements:

<table>
<thead>
<tr>
<th>Emission and Operating Limit</th>
<th>Regulation</th>
<th>Emission Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 tpy of PM, PM\textsubscript{10}, and VOC emissions</td>
<td>To preclude 401 KAR 52:020</td>
<td>Source-wide</td>
</tr>
<tr>
<td>9.0 tpy of individual HAP emissions</td>
<td>To preclude 401 KAR 52:020 and major source status for HAP</td>
<td>Source-wide</td>
</tr>
<tr>
<td>22.5 tpy of combined HAP emissions</td>
<td>To preclude 401 KAR 52:020 and major source status for HAP</td>
<td>Source-wide</td>
</tr>
</tbody>
</table>

Table B - Summary of Applicable Regulations:

<table>
<thead>
<tr>
<th>Applicable Regulations</th>
<th>Emission Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>401 KAR 59:010, New process operations. This regulation is applicable to each affected facility, associated with a process operation, which is not subject to another emission standard with respect to particulates, commenced on or after July 2, 1975.</td>
<td>EP 004, 005, 006, 008, 009</td>
</tr>
<tr>
<td>401 KAR 61:020, Existing process operations. This regulation is applicable to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulates, commenced before July 2, 1975.</td>
<td>EP 001, 003</td>
</tr>
<tr>
<td>401 KAR 63:020, Potentially hazardous matter or toxic substances. This regulation is applicable to each affected facility which emits or may emit potentially hazardous matter or toxic substances.</td>
<td>EP 006</td>
</tr>
<tr>
<td>401 KAR 63:002, Section 2(4)(vvvvv), 40 C.F.R. 63.11514 to 63.11523, Tables 1 to 2 (Subpart XXXXXX), National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories. This regulation is applicable to each new and existing affected source listed and defined in 40 CFR 63.11514(b)(1) through (5) that uses materials that contain or have the potential to emit metal fabrication or finishing metal HAP (MFHAP), defined to be the compounds of cadmium, chromium, lead, manganese, and nickel, or any of these metals in the elemental form with the exception of lead. Materials that contain MFHAP are defined to be materials that contain greater than 0.1 percent for carcinogens, as defined by OSHA at 29 CFR 1910.1200(d)(4), and greater than 1.0 percent for noncarcinogens. For the MFHAP, this corresponds to materials that contain cadmium, chromium, lead, or nickel in amounts greater than or equal to 0.1 percent by weight (of the metal), and materials that contain manganese in amounts greater than or equal to 1.0 percent by weight (of the metal), as shown in formulation data provided by the manufacturer or supplier, such as the Material Safety Data Sheet for the material.</td>
<td>EP 003, 004, 005, 008, 009</td>
</tr>
</tbody>
</table>
SECTION 4 – SOURCE INFORMATION AND REQUIREMENTS (CONTINUED)

Table C - Summary of Precluded Regulations:

<table>
<thead>
<tr>
<th>Precluded Regulations</th>
<th>Emission Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>401 KAR 52:020, Title V Permits. This regulation is precluded by the source taking site-wide limitations on PM, PM₁₀, VOC, and HAP below the major source threshold.</td>
<td>Source-wide</td>
</tr>
</tbody>
</table>

Table D - Summary of Non Applicable Regulations:

None

Air Toxic Analysis

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

The Division for Air Quality (Division) has performed SCREEN View on May 18, 2017 of potentially hazardous matter or toxic substances (Styrene, Xylenes (Total), and Acetone) 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

<table>
<thead>
<tr>
<th>Permit</th>
<th>Permit Type</th>
<th>Activity#</th>
<th>Complete Date</th>
<th>Issuance Date</th>
<th>Summary of Action</th>
<th>PSD/Syn Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-87-100 R1</td>
<td>Revision</td>
<td>-</td>
<td>4/27/2000</td>
<td>6/30/2000</td>
<td>Addition of new processes</td>
<td>N/A</td>
</tr>
<tr>
<td>F-00-003</td>
<td>Initial</td>
<td>-</td>
<td>4/11/1996</td>
<td>9/1/2000</td>
<td>Initial Cond. Major Permit</td>
<td>Syn Minor</td>
</tr>
<tr>
<td>F-00-003 R1</td>
<td>Administrative Revision</td>
<td>-</td>
<td>3/11/2002</td>
<td>1/22/2003</td>
<td>Revision of EU 03 and 06 language</td>
<td>N/A</td>
</tr>
<tr>
<td>F-06-005</td>
<td>Cond. Major Renewal</td>
<td>APE20050001</td>
<td>10/10/2005</td>
<td>5/10/2006</td>
<td>Renewal of Cond. Major permit</td>
<td>N/A</td>
</tr>
<tr>
<td>F-12-006</td>
<td>Cond. Major Renewal</td>
<td>APE20110001</td>
<td>3/28/2012</td>
<td>10/15/2012</td>
<td>Renewal of Cond. Major permit</td>
<td>N/A</td>
</tr>
<tr>
<td>F-17-037</td>
<td>Cond. Major Renewal</td>
<td>APE20170001</td>
<td>6/6/2017</td>
<td>9/16/2017</td>
<td>Renewal of Cond. Major permit</td>
<td>N/A</td>
</tr>
</tbody>
</table>
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
NOx – Nitrogen Oxides
NSR – New Source Review
PM – Particulate Matter
PM10 – Particulate Matter equal to or smaller than 10 micrometers
PM2.5 – Particulate Matter equal to or smaller than 2.5 micrometers
PSD – Prevention of Significant Deterioration
PTE – Potential to Emit
SO2 – Sulfur Dioxide
TF – Total Fluoride (Particulate & Gaseous)
VOC – Volatile Organic Compounds