General Information:
Name: MPLX Terminals LLC - Paducah Terminal
Address: 201 Ashland Road, Paducah, KY 42003
Date application received: 8/10/2021
SIC Code/SIC description: 5171, Petroleum Bulk Stations and Terminals (except petroleum sold via retail method)
Source ID: 21-145-00017
Agency Interest: 3052
Activity: APE20210001
Permit: F-22-012

Application Type/Permit Activity:
[ ] Initial issuance  [ ] General permit
[ ] Permit modification  [x] Conditional major
    __ Administrative
    __ Minor
    __ Significant
[x] Permit renewal  [ ] Title V
[ ] Synthetic minor
[ ] Operating
[ ] Construction/operating

Compliance Summary:
[ ] Source is out of compliance  [ ] Compliance schedule included
[x] Compliance certification signed

Source Applicable Requirements List:
[ ] NSR
  __ Non-Attainment
  __ PSD
  __ Netted out of PSD/NSR
[x] NSPS
[x] NESHAPS
[ ] SIP
[ ] Other
[ ] CAM

Miscellaneous:
[ ] Acid rain source
[ ] Source subject to 112(r)
[ ] Source applied for federally enforceable emissions cap
[ ] Source provided terms for alternative operating scenarios
[x] Source subject to a MACT standard
[ ] Source requested case-by-case 112(g) or (j) determination
[ ] Application proposes new control technology
[x] Certified by responsible official
[ ] Diagrams or drawings included
[ ] Confidential business information (CBI) submitted in application
[ ] Pollution Prevention Measures
[ ] Area is non-attainment (list pollutants):
EMISSIONS SUMMARY:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>2020 Actual (tpy)</th>
<th>F-22-012 Potential (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>0.89</td>
<td>12.3</td>
</tr>
<tr>
<td>CO</td>
<td>4.87</td>
<td>67.0</td>
</tr>
<tr>
<td>VOC</td>
<td>15.8</td>
<td>66.0*</td>
</tr>
<tr>
<td>PM</td>
<td>0.01</td>
<td>0.3</td>
</tr>
<tr>
<td>PM10</td>
<td>0.01</td>
<td>0.3</td>
</tr>
<tr>
<td>PM2.5</td>
<td>0.003</td>
<td>0.07</td>
</tr>
<tr>
<td>SO2</td>
<td>0.0008</td>
<td>0.02</td>
</tr>
<tr>
<td>Lead</td>
<td>0.0000007</td>
<td>0.00002</td>
</tr>
</tbody>
</table>

Hazardous Air Pollutants (HAPs)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>2020 Actual (tpy)</th>
<th>F-22-012 Potential (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>0.09</td>
<td>0.51*</td>
</tr>
<tr>
<td>Hexane; n-Hexane</td>
<td>0.16</td>
<td>0.91*</td>
</tr>
<tr>
<td>Toluene</td>
<td>0.13</td>
<td>0.76*</td>
</tr>
<tr>
<td>2,2,4-Trimethylpentane</td>
<td>0.12</td>
<td>0.45*</td>
</tr>
<tr>
<td>Source-wide HAPs or Combined HAPs</td>
<td>0.56</td>
<td>3.0*</td>
</tr>
</tbody>
</table>

Greenhouse Gases (GHGs)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>2020 Actual (tpy)</th>
<th>F-22-012 Potential (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrous Oxide</td>
<td>0.017</td>
<td>0.1</td>
</tr>
<tr>
<td>Carbon Dioxide (CO₂)</td>
<td>2,036</td>
<td>28,018</td>
</tr>
<tr>
<td>Methane</td>
<td>0.052</td>
<td>0.3</td>
</tr>
<tr>
<td>CO₂ Equivalent (CO₂e)</td>
<td>2,042</td>
<td>28,061</td>
</tr>
</tbody>
</table>

*Based on federally-enforceable limitations

SOURCE DESCRIPTION:

MPLX Terminals LLC owns and operates a terminal in Paducah, Kentucky called MPLX Terminals LLC – Paducah Terminal (MPLX). The terminal receives product by barge, stores the product in tanks, and then loads the product to tank trucks for distribution.

The Paducah Terminal is a bulk storage facility that receives gasoline, fuel oil, and kerosene by barge and stores the products in above ground storage tanks (note that jet fuel is considered a subset of kerosene). Ethanol, additives, and diesel dye are received by tanker truck and are injected into the product at the loading racks. All products are shipped out by tank trucks, which are loaded at the loading rack. The loading rack consists of two bays and each bay consists of seven (7) loading arms. Occasionally, a tank truck loaded with product may be returned and off-loaded at the load rack. The
terminal also has the capability of back-loading barges and does so periodically. They load mid-stream diesel barges regularly. A gasoline barge would be in an emergency situation. The facility also has a small oil-water separator, and other miscellaneous equipment.

**Emissions and Operating Caps Descriptions:**

MPLX will continue to operate under federally enforceable limits of 9 tons per year (tpy) or less of single hazardous air pollutants (HAPs), 22.5 tpy of less of combined HAPs, and 90 tpy or less of volatile organic compounds (VOC). Compliance with these permit limits shall make the requirements of 401 KAR 52:020, Title V permits, not applicable to this source.

**Operational Flexibility:**

The source is not restricted as to hours of operation or quantity of product produced while remaining within the caps above.