# TV FER/EIS Emissions Report (202584) for 2010
# Procter & Gamble Mason Business Center
# 1483090334
# June 15, 2011

# 2010 Emissions Summary Report : 202584

Oct 11 2011, 15:21:23

## - Report Data

Report Category: TV

Submitted Date: 06/15/2011

Approved Date 06/17/2011

Reporting Year: 2010

Reporting State Approved

## - Reports Included

FER: X ES: EIS: X

## - Facility Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0. | 0.814507 | 0.814507 | TONs |
| SO2 - Sulfur Dioxide | SO2 | X | 0. | 0.0850766 | 0.0850766 | TONs |
| NOx - Nitrogen Oxides | NOX | X | 0. | 21.4215 | 21.4215 | TONs |
| Organic Compounds | OC | X | 0.0102172 | 2.14564 | 2.15586 | TONs |
| Pb - Lead | 7439921 | X | 0. | 7.205E-05 | 7.205E-05 | TONs |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0. | 0.279558 | 0.279558 | TONs |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0. | 0.277912 | 0.277912 | TONs |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0. | 0.276703 | 0.276703 | TONs |
| VOC - Volatile Organic Compounds | VOC | | 0.0102172 | 2.13475 | 2.14497 | TONs |
| Ammonia | NH3 | | 0. | 0.454857 | 0.454857 | TONs |
| CO - Carbon Monoxide | CO | | 0. | 28.3815 | 28.3815 | TONs |
| Total of Chargable Pollutants | | | | | 23.9421 | TONS |

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 1.07179E-06 | 1.07179E-06 | TONs |
| Acenaphthylene | 208968 | 0. | 7.16986E-07 | 7.16986E-07 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Acetaldehyde | 75070 | 0. | 0.00297234 | 0.00297234 | TONs |
| Acrolein | 107028 | 0. | 0.00254809 | 0.00254809 | TONs |
| Anthracene | 120127 | 0. | 5.11785E-07 | 5.11785E-07 | TONs |
| Arsenic | 7440382 | 0. | 2.91413E-05 | 2.91413E-05 | TONs |
| Benz[A]Anthracene | 56553 | 0. | 1.00528E-06 | 1.00528E-06 | TONs |
| Benzene | 71432 | 0. | 3.38646E-04 | 3.38646E-04 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 9.19961E-08 | 9.19961E-08 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 3.09779E-07 | 3.09779E-07 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 9.65811E-08 | 9.65811E-08 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 1.31588E-07 | 1.31588E-07 | TONs |
| Beryllium | 7440417 | 0. | 1.47985E-06 | 1.47985E-06 | TONs |
| Butadiene, 1,3- | 106990 | 0. | 3.6518E-07 | 3.6518E-07 | TONs |
| Cadmium | 7440439 | 0. | 1.56282E-04 | 1.56282E-04 | TONs |
| Chromium | 7440473 | 0. | 1.98732E-04 | 1.98732E-04 | TONs |
| Chrysene | 218019 | 0. | 1.89706E-07 | 1.89706E-07 | TONs |
| Cobalt | 7440484 | 0. | 1.18861E-05 | 1.18861E-05 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 9.47723E-08 | 9.47723E-08 | TONs |
| Dimethylbenz[A]Anthracene, 7,12- | 57976 | 0. | 1.13201E-06 | 1.13201E-06 | TONs |
| Ethyl Benzene | 100414 | 0. | 4.1752E-07 | 4.1752E-07 | TONs |
| Fluoranthene | 206440 | 0. | 7.37136E-07 | 7.37136E-07 | TONs |
| Fluorene | 86737 | 0. | 1.31816E-06 | 1.31816E-06 | TONs |
| Formaldehyde | 50000 | 0. | 0.0519736 | 0.0519736 | TONs |
| Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8- | 35822469 | 0. | 2.2965E-11 | 2.2965E-11 | TONs |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562394 | 0. | 5.3585E-12 | 5.3585E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin | 34465468 | 0. | 9.4922E-12 | 9.4922E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8- | 39227286 | 0. | 1.05639E-12 | 1.05639E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9- | 19408743 | 0. | 1.16356E-12 | 1.16356E-12 | TONs |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648269 | 0. | 2.73363E-11 | 2.73363E-11 | TONs |
| Hexane, N- | 110543 | 0. | 0.254702 | 0.254702 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 1.3615E-07 | 1.3615E-07 | TONs |
| MN - Manganese | 7439965 | 0. | 5.50321E-05 | 5.50321E-05 | TONs |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | 0. | 3.74267E-05 | 3.74267E-05 | TONs |
| Methylcholanthrene, 3- | 56495 | 0. | 1.27351E-07 | 1.27351E-07 | TONs |
| Methylnaphthalene, 2- | 91576 | 0. | 3.39603E-06 | 3.39603E-06 | TONs |
| Naphthalene | 91203 | 0. | 1.17253E-04 | 1.17253E-04 | TONs |
| Nickel | 7440020 | 0. | 2.97783E-04 | 2.97783E-04 | TONs |
| Octachlorodibenzo-P-Dioxin | 3268879 | 0. | 2.4496E-10 | 2.4496E-10 | TONs |
| Octachlorodibenzofuran | 39001020 | 0. | 1.8372E-11 | 1.8372E-11 | TONs |
| PAH, 16- | 40 | 0. | 8.56277E-06 | 8.56277E-06 | TONs |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 57117416 | 0. | 1.26168E-11 | 1.26168E-11 | TONs |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117314 | 0. | 2.1028E-11 | 2.1028E-11 | TONs |
| Phenanthrene | 85018 | 0. | 1.15006E-05 | 1.15006E-05 | TONs |
| Polycyclic Organic Matter | 246 | 0. | 9.68865E-05 | 9.68865E-05 | TONs |
| Pyrene | 129000 | 0. | 9.40715E-07 | 9.40715E-07 | TONs |
| Selenium | 7782492 | 0. | 4.85221E-06 | 4.85221E-06 | TONs |
| Styrene | 100425 | 0. | 2.38224E-07 | 2.38224E-07 | TONs |
| Tetrachlorodibenzofuran, 2,3,7,8- | 51207319 | 0. | 1.32476E-10 | 1.32476E-10 | TONs |
| Toluene | 108883 | 0. | 4.95934E-04 | 4.95934E-04 | TONs |
| Total Heptachlorodibenzo-P-Dioxin | 37871004 | 0. | 3.062E-11 | 3.062E-11 | TONs |
| Total Pentachlorodibenzofuran | 30402154 | 0. | 7.3488E-13 | 7.3488E-13 | TONs |
| Xylenes (Isomers and Mixture) | 1330207 | 0. | 1.02621E-05 | 1.02621E-05 | TONs |

- **Attachments**

| Description | Type | Public Document | Trade Seceret Document | Trade secret Justification |
|---|---|---|---|---|

- **Notes**

| User Name | Date | Note |
|---|---|---|

## Emission Units Without Detailed Emissions

Oct 11 2011, 15:21:23

| Emission Unit | Why Excluded | Company Equipment ID |
|---|---|---|
| Y001 | Less Than Reporting Requirement | Extra Row |
| | | |

| | | |
|---|---|---|
| Y002 | Less Than Reporting Requirement | Extra Row |
| Y003 | Less Than Reporting Requirement | Extra Row |
| Y004 | Less Than Reporting Requirement | Extra Row |
| Y005 | Less Than Reporting Requirement | Extra Row |
| Y006 | Less Than Reporting Requirement | Extra Row |
| Y007 | Less Than Reporting Requirement | Extra Row |
| Z001 | Less Than Reporting Requirement | Extra Row |
| Z002 | Exemption Status = Permit Exempt; TV Classification = Trivial | Laboratory Fume Hoods |
| Z003 | Exemption Status = De minimis; TV Classification = Trivial | Glass Blowing |
| Z004 | Less Than Reporting Requirement | Remove from inv. |
| Z005 | Exemption Status = De minimis; TV Classification = Trivial | Autoclaves |
| Z006 | Exemption Status = De minimis; TV Classification = Trivial | pH Neutralization Tanks |
| Z007 | Exemption Status = De minimis; TV Classification = Trivial | Central Vacuum System |
| Z008 | Exemption Status = De minimis; TV Classification = Trivial | Hi-Vac System |
| Z009 | Exemption Status = De minimis; TV Classification = Trivial | X-Ray developing |
| Z010 | Exemption Status = De minimis; TV Classification = Trivial | Sanitizer Unit |
| Z011 | Exemption Status = De minimis; TV Classification = Trivial | Raw Material Preweigh Units |
| Z012 | Exemption Status = Permit Exempt; TV Classification = Trivial | Fume Hoods in PRL |
| Z013 | Less Than Reporting Requirement | Extra Row |
| Z014 | Less Than Reporting Requirement | Extra Row |
| Z015 | Exemption Status = De minimis; TV Classification = Trivial | Portable Blenders |
| Z016 | Exemption Status = De minimis; TV Classification = Trivial | Analgesics/Respiratory Unit |
| Z017 | Less Than Reporting Requirement | Extra Row |
| Z018 | Less Than Reporting Requirement | Extra Row |
| | | |

| | | |
|---|---|---|
| Z019 | Exemption Status = De minimis; TV Classification = Trivial | Oral Products I Process Unit |
| Z020 | Less Than Reporting Requirement | Extra Row |
| Z021 | Exemption Status = De minimis; TV Classification = Trivial | Oral Care I Process Unit |
| Z022 | Exemption Status = De minimis; TV Classification = Trivial | Oral Care II Process Unit |
| Z023 | Less Than Reporting Requirement | Extra Row |
| Z024 | Exemption Status = De minimis; TV Classification = Trivial | Capsule Filling Machine |
| Z025 | Exemption Status = De minimis; TV Classification = Trivial | Tablet Making Machine |
| Z026 | Exemption Status = De minimis; TV Classification = Trivial | Packaging Equipment |
| Z027 | Exemption Status = De minimis; TV Classification = Trivial | Portable covered mix tanks <1,000 Liters |
| Z028 | Exemption Status = De minimis; TV Classification = Trivial | Health Aid Product Process Unit |
| Z029 | Less Than Reporting Requirement | Extra Row |
| Z030 | Exemption Status = De minimis; TV Classification = Trivial | Paved and unpaved roads |
| Z031 | Exemption Status = De minimis; TV Classification = Trivial | Filter Product Testing |
| Z032 | Exemption Status = De minimis; TV Classification = Trivial | Flavors |
| Z033 | Exemption Status = De minimis; TV Classification = Trivial | Parts Washer |
| Z034 | Exemption Status = De minimis; TV Classification = Trivial | Solid Product Processing II |
| Z035 | Exemption Status = De minimis; TV Classification = Trivial | Oral Care III |
| Z036 | Exemption Status = De minimis; TV Classification = Trivial | Oral Care IV |
| Z037 | Exemption Status = De minimis; TV Classification = Trivial | Oral Care V |
| Z038 | Exemption Status = De minimis; TV Classification = Trivial | Baby Care II |
| Z039 | Exemption Status = De minimis; | Filter Making |

| | | |
|---|---|---|
| | TV Classification = Trivial | |
| Z040 | Exemption Status = De minimis;<br>TV Classification = Trivial | Respiratory II |
| Z041 | Exemption Status = De minimis;<br>TV Classification = Trivial | Health I |
| Z042 | Exemption Status = De minimis;<br>TV Classification = Trivial | GI Products II |
| Z043 | Exemption Status = De minimis;<br>TV Classification = Trivial | Bench Scale Paint Booth |

**Report Pollutant Summary: Total Emissions (Tons)**

| Unit | SCC Id | PM-CON | SO2 | NOX | OC | 7439921 | PM-FIL | PM10-FIL | PM25-FIL | VOC | NH3 | CO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B001** | **1-02-005-02** | 7.67E-04 | 5.45E-05 | 0.0121 | 0.00121 | 5E-07 | 0.001179 | 5.895E-04 | 1.47E-04 | 0.00121 | 4.716E-04 | 0.0162 |
| **B001** | **1-02-006-02** | 0.2176 | 0.022905 | 5.726 | 0.5726 | 1.9E-05 | 0.072533 | 0.072533 | 0.072533 | 0.5726 | 0.1222 | 7.635 |
| **B002** | **1-02-005-02** | 7.63E-04 | 5.43E-05 | 0.0121 | 0.0121 | 5.3E-07 | 0.00117 | 5.9E-04 | 1.47E-04 | 0.00121 | 4.7E-04 | 0.01612 |
| **B002** | **1-02-006-02** | 0.368 | 0.0388 | 9.69 | 0.969 | 3.2E-05 | 0.123 | 0.123 | 0.123 | 0.969 | 0.2067 | 12.92 |
| **B003** | **1-02-006-02** | 0.221 | 0.0232 | 5.81 | 0.581 | 1.94E-05 | 0.0736 | 0.0736 | 0.0736 | 0.581 | 0.124 | 7.745 |
| **B003** | **1-02-005-02** | 4.6E-04 | 3.3E-05 | 0.0073 | 7.3E-04 | 3.2E-07 | 7.1E-04 | 3.55E-04 | 8.9E-05 | 7.3E-04 | 2.84E-04 | 0.00974 |
| **P001** | **2-02-004-01** | 6.47E-05 | 5.7E-06 | 0.0271 | 7.62E-04 | 6E-08 | 5.25E-04 | 4.84E-04 | 4.65E-04 | 7.62E-04 | 1.79E-04 | 0.0072 |
| **P002** | **2-02-004-01** | 6.6E-05 | 5.7E-06 | 0.02742 | 7.71E-04 | 6E-08 | 5.3E-04 | 4.9E-04 | 4.71E-04 | 7.71E-04 | 1.81E-04 | 0.00729 |
| **P003** | **2-02-004-01** | 6.6E-06 | 5.8E-06 | 0.0274 | 7.71E-04 | 6E-08 | 5.31E-04 | 4.9E-04 | 4.71E-04 | 7.71E-04 | 1.81E-04 | 0.00728 |
| **P004** | **2-02-001-02** | 0.00578 | 1.26E-05 | 0.0821 | 0.0067 | 1.2E-07 | 0.00578 | 0.00578 | 0.00578 | 0.0067 | 1.9E-04 | 0.0177 |
| **T001** | **4-04-003-01** | 0. | 0. | 0. | 0.0102 | 0. | 0. | 0. | 0. | 0.0102 | 0. | 0. |
| **T001** | **4-04-003-02** | 0. | 0. | 0. | 1.725E-05 | 0. | 0. | 0. | 0. | 1.725E-05 | 0. | 0. |
| **Total** | | 0.814507 | 0.0850766 | 21.4215 | 2.15586 | 7.205E-05 | 0.279558 | 0.277912 | 0.276703 | 2.14497 | 0.454857 | 28.3815 |

# Emission Unit Summary: B001

Oct 11 2011, 15:21:23

Emissions Unit ID: B001

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0. | 0.218367 | 0.218367 | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0. | 0.0229595 | 0.0229595 | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0. | 5.7381 | 5.7381 | TONs | |
| Organic Compounds | OC | X | 0. | 0.57381 | 0.57381 | TONs | |
| Pb - Lead | 7439921 | X | 0. | 1.95E-05 | 1.95E-05 | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0. | 0.073712 | 0.073712 | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0. | 0.0731225 | 0.0731225 | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0. | 0.07268 | 0.07268 | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 0. | 0.57381 | 0.57381 | TONs | |
| Ammonia | NH3 | | 0. | 0.122672 | 0.122672 | TONs | |
| CO - Carbon Monoxide | CO | | 0. | 7.6512 | 7.6512 | TONs | |
| Total of Chargable Pollutants | | | | | 6.4086 | TONS | |

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 3.46792E-07 | 3.46792E-07 | TONs |
| Acenaphthylene | 208968 | 0. | 1.52258E-07 | 1.52258E-07 | TONs |
| Acetaldehyde | 75070 | 0. | 7.97857E-04 | 7.97857E-04 | TONs |
| Acrolein | 107028 | 0. | 6.8715E-04 | 6.8715E-04 | TONs |
| Anthracene | 120127 | 0. | 1.5192E-07 | 1.5192E-07 | TONs |
| Arsenic | 7440382 | 0. | 7.95887E-06 | 7.95887E-06 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Benz[A]Anthracene | 56553 | 0. | 3.54188E-07 | 3.54188E-07 | TONs |
| Benzene | 71432 | 0. | 8.17886E-05 | 8.17886E-05 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 2.36949E-08 | 2.36949E-08 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 9.33075E-08 | 9.33075E-08 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 2.2905E-08 | 2.2905E-08 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 3.43575E-08 | 3.43575E-08 | TONs |
| Beryllium | 7440417 | 0. | 4.7195E-07 | 4.7195E-07 | TONs |
| Cadmium | 7440439 | 0. | 4.22354E-05 | 4.22354E-05 | TONs |
| Chromium | 7440473 | 0. | 5.36879E-05 | 5.36879E-05 | TONs |
| Chrysene | 218019 | 0. | 4.07539E-08 | 4.07539E-08 | TONs |
| Cobalt | 7440484 | 0. | 3.2067E-06 | 3.2067E-06 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 2.2905E-08 | 2.2905E-08 | TONs |
| Dimethylbenz[A]Anthracene, 7,12- | 57976 | 0. | 3.054E-07 | 3.054E-07 | TONs |
| Fluoranthene | 206440 | 0. | 1.40463E-07 | 1.40463E-07 | TONs |
| Fluorene | 86737 | 0. | 1.25754E-07 | 1.25754E-07 | TONs |
| Formaldehyde | 50000 | 0. | 0.0187796 | 0.0187796 | TONs |
| Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8- | 35822469 | 0. | 8.8425E-12 | 8.8425E-12 | TONs |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562394 | 0. | 2.06325E-12 | 2.06325E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin | 34465468 | 0. | 3.6549E-12 | 3.6549E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8- | 39227286 | 0. | 4.06755E-13 | 4.06755E-13 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9- | 19408743 | 0. | 4.4802E-13 | 4.4802E-13 | TONs |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648269 | 0. | 1.05256E-11 | 1.05256E-11 | TONs |
| Hexane, N- | 110543 | 0. | 0.068715 | 0.068715 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 3.43575E-08 | 3.43575E-08 | TONs |
| MN - Manganese | 7439965 | 0. | 1.49923E-05 | 1.49923E-05 | TONs |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | 0. | 1.01684E-05 | 1.01684E-05 | TONs |
| Methylcholanthrene, 3- | 56495 | 0. | 3.43575E-08 | 3.43575E-08 | TONs |
| Methylnaphthalene, 2- | 91576 | 0. | 9.162E-07 | 9.162E-07 | TONs |
| Naphthalene | 91203 | 0. | 3.33083E-05 | 3.33083E-05 | TONs |
| Nickel | 7440020 | 0. | 8.04104E-05 | 8.04104E-05 | TONs |
| Octachlorodibenzo-P-Dioxin | 3268879 | 0. | 9.432E-11 | 9.432E-11 | TONs |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Octachlorodibenzofuran | 39001020 | 0. | 7.074E-12 | 7.074E-12 | TONs |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 57117416 | 0. | 4.858E-12 | 4.858E-12 | TONs |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117314 | 0. | 8.09666E-12 | 8.09666E-12 | TONs |
| Phenanthrene | 85018 | 0. | 3.53752E-06 | 3.53752E-06 | TONs |
| Polycyclic Organic Matter | 246 | 0. | 2.6721E-05 | 2.6721E-05 | TONs |
| Pyrene | 129000 | 0. | 2.09739E-07 | 2.09739E-07 | TONs |
| Selenium | 7782492 | 0. | 1.6726E-06 | 1.6726E-06 | TONs |
| Tetrachlorodibenzofuran, 2,3,7,8- | 51207319 | 0. | 5.1009E-11 | 5.1009E-11 | TONs |
| Toluene | 108883 | 0. | 1.29795E-04 | 1.29795E-04 | TONs |
| Total Heptachlorodibenzo-P-Dioxin | 37871004 | 0. | 1.179E-11 | 1.179E-11 | TONs |
| Total Pentachlorodibenzofuran | 30402154 | 0. | 2.8296E-13 | 2.8296E-13 | TONs |

## - Processes

### - Process & Emissions Detail

Name: B001-0

Source Classification Code (SCC): 1-02-005-02

#### - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 7

Hours Per Year: 7

Winter (Dec - Feb)%: 97

Spring (March-May)%: 3

Summer (June-Aug)%: 0

Fall (Sept-Nov)%: 0

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Distillate Oil | Burned | 1.179 | 1000 GALLONS |

| Variable | Amount | Meaning |
|---|---|---|
| HCl | 137348 | Liquid Heat Content (Btu/gallons) |
| S | 0.00067 | % Sulfur content by weight |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.000767 | 7.67E-04 | TONs | Condesnsible PE was determined based on AP-42 factor of 1.3lb condensible PE / 1000 gallons of fuel oil. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | .0000545 | 5.45E-05 | TONs | Engineering judgement is determined from acutal sulfur content in fuel oil based on vendor analysis. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0121 | 0.0121 | TONs | Engineering judgement is based on a vendor factor of 0.15lbNOx/MMBtu heat input. |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00121 | 0.00121 | TONs | OC Emissions were determined based on a vendor factor of 0.015lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 0.252lb OC/1000gallons fuel oil burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0000005 | 5E-07 | TONs | Engineering judgement is based on a AP-42 factor of 0.0009lb Pb per 1000 gallons of fuel burned. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.001179 | 0.001179 | TONs | Engineering judgement is based on AP-42 factor of 2.0lb PE-Filterable per 1000 gallons of fuel burned. |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.0005895 | 5.895E-04 | TONs | Engineering judgement is based on the AP-42 factor of 1lb PM10 per 1000 gallons of fuel burned. |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000147 | 1.47E-04 | TONs | Engineering judgement is based on AP-42 factor of 0.25lb PM2.5 per 1000 gallons of fuel burned. |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.00121 | 0.00121 | TONs | Engineering judgement is based on vendor factor of 0.015lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.0004716 | 4.716E-04 | TONs | Engineering judgement is based on AP-42 factor of 0.8lb NH3 per 1000 gallons of fuel burned. |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0.0162 | 0.0162 | TONs | Engineering judgement is based on vendor factor of 0.20lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 0.014544 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto calculate) | 0 | 5.3E-04 | 0. | 3.12435E-07 | 3.12435E-07 | TONs | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 2E-04 | 0. | 1.179E-07 | 1.179E-07 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto calculate) | 0 | 1.8E-04 | 0. | 1.0611E-07 | 1.0611E-07 | TONs | |
| Arsenic | 7440382 | factor:OEPA (auto calculate) | 0 | 5.49392E-04 | 0. | 3.23867E-07 | 3.23867E-07 | TONs | |
| Benz[A]Anthracene | 56553 | factor:OEPA (auto calculate) | 0 | 5.42544E-04 | 0. | 3.1983E-07 | 3.1983E-07 | TONs | |
| Benzene | 71432 | factor:OEPA (auto calculate) | 0 | 0.00275 | 0. | 1.62112E-06 | 1.62112E-06 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEPA (auto calculate) | 0 | 1.34E-06 | 0. | 7.8993E-10 | 7.8993E-10 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEPA (auto calculate) | 0 | 1E-04 | 0. | 5.895E-08 | 5.895E-08 | TONs | |
| Beryllium | 7440417 | factor:OEP | 0 | 4.12044E | 0. | 2.429E-07 | 2.429E-07 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A (auto calculate) | | -04 | | | | | |
| Cadmium | 7440439 | factor:OEP A (auto calculate) | 0 | 4.12044E -04 | 0. | 2.429E-07 | 2.429E-07 | TONs | |
| Chromium | 7440473 | factor:OEP A (auto calculate) | 0 | 4.12044E -04 | 0. | 2.429E-07 | 2.429E-07 | TONs | |
| Chrysene | 218019 | factor:OEP A (auto calculate) | 0 | 1.08505E -05 | 0. | 6.39637E-09 | 6.39637E-09 | TONs | |
| Fluoranthene | 206440 | factor:OEP A (auto calculate) | 0 | 4.4E-05 | 0. | 2.5938E-08 | 2.5938E-08 | TONs | |
| Fluorene | 86737 | factor:OEP A (auto calculate) | 0 | 3.2E-05 | 0. | 1.8864E-08 | 1.8864E-08 | TONs | |
| Formaldehyde | 50000 | factor:OEP A (auto calculate) | 0 | 27 | 0. | 0.0159165 | 0.0159165 | TONs | |
| Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8- | 35822469 | factor:OEP A (auto calculate) | 0 | 1.5E-08 | 0. | 8.8425E-12 | 8.8425E-12 | TONs | |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562394 | factor:OEP A (auto calculate) | 0 | 3.5E-09 | 0. | 2.06325E-12 | 2.06325E-12 | TONs | |
| Hexachlorodibenzo-P-Dioxin | 34465468 | factor:OEP A (auto calculate) | 0 | 6.2E-09 | 0. | 3.6549E-12 | 3.6549E-12 | TONs | |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8- | 39227286 | factor:OEP A (auto calculate) | 0 | 6.9E-10 | 0. | 4.06755E-13 | 4.06755E-13 | TONs | |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9- | 19408743 | factor:OEP A (auto calculate) | 0 | 7.6E-10 | 0. | 4.4802E-13 | 4.4802E-13 | TONs | |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648269 | factor:OEP A (auto calculate) | 0 | 1.78552E -08 | 0. | 1.05256E-11 | 1.05256E-11 | TONs | |
| MN - Manganese | 7439965 | factor:OEP A (auto calculate) | 0 | 8.24088E -04 | 0. | 4.858E-07 | 4.858E-07 | TONs | |
| Mercury, as HG; | 7439976 | factor:OEP | 0 | 4.12044E | 0. | 2.429E-07 | 2.429E-07 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | | A (auto calculate) | | -04 | | | | | |
| Naphthalene | 91203 | factor:OEP A (auto calculate) | 0 | 0.017 | 0. | 1.00215E-05 | 1.00215E-05 | TONs | |
| Nickel | 7440020 | factor:OEP A (auto calculate) | 0 | 4.12044E -04 | 0. | 2.429E-07 | 2.429E-07 | TONs | |
| Octachlorodibenzo-P-Dioxin | 3268879 | factor:OEP A (auto calculate) | 0 | 1.6E-07 | 0. | 9.432E-11 | 9.432E-11 | TONs | |
| Octachlorodibenzofuran | 39001020 | factor:OEP A (auto calculate) | 0 | 1.2E-08 | 0. | 7.074E-12 | 7.074E-12 | TONs | |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 57117416 | factor:OEP A (auto calculate) | 0 | 8.24088E -09 | 0. | 4.858E-12 | 4.858E-12 | TONs | |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117314 | factor:OEP A (auto calculate) | 0 | 1.37348E -08 | 0. | 8.09666E-12 | 8.09666E-12 | TONs | |
| Phenanthrene | 85018 | factor:OEP A (auto calculate) | 0 | 0.0049 | 0. | 2.88855E-06 | 2.88855E-06 | TONs | |
| Polycyclic Organic Matter | 246 | factor:OEP A (auto calculate) | 0 | 0.0033 | 0. | 1.94535E-06 | 1.94535E-06 | TONs | |
| Pyrene | 129000 | factor:OEP A (auto calculate) | 0 | 3.2E-05 | 0. | 1.8864E-08 | 1.8864E-08 | TONs | |
| Selenium | 7782492 | factor:OEP A (auto calculate) | 0 | 0.00206022 | 0. | 1.2145E-06 | 1.2145E-06 | TONs | |
| Tetrachlorodibenzofuran, 2,3,7,8- | 51207319 | factor:OEP A (auto calculate) | 0 | 8.65292E -08 | 0. | 5.1009E-11 | 5.1009E-11 | TONs | |
| Total Heptachlorodibenzo-P-Dioxin | 37871004 | factor:OEP A (auto calculate) | 0 | 2E-08 | 0. | 1.179E-11 | 1.179E-11 | TONs | |
| Total Pentachlorodibe | 30402154 | factor:OEP A (auto | 0 | 4.8E-10 | 0. | 2.8296E-13 | 2.8296E-13 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| nzofuran | | calculate) | | | | | | | |

## - Process & Emissions Detail

Name: B001-1

Source Classification Code (SCC): 1-02-006-02

## - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 10

Days Per Week: 7

Weeks Per Year: 26

Hours Per Year: 1873

Winter (Dec - Feb)%: 60

Spring (March-May)%: 11

Summer (June-Aug)%: 2

Fall (Sept-Nov)%: 27

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Natural Gas | Burned | 76.350 | MILLION CUBIC FEET |

| Variable | Amount | Meaning |
|---|---|---|
| HCg | 1000 | Gas Heat Content (Btu/Cubic Feet) |

## - Process Emissions

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.2176 | 0.2176 | TONs | An emissions factor of 5.7lb per million cubic feet of natural gas was assumed based on AP-42 factors. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.022905 | 0.022905 | TONs | Engineering judgement is based on a vendor factor of 0.6lb SO2 per 1,000,000 cubic feet of natural gas. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 5.726 | 5.726 | TONs | Engineering judgement is based on a vendor factor of 0.15lbNOx/MMBtu. |
| Organic | OC | X | emissions: | | | 0 | 0.5726 | 0.5726 | TONs | OC Emissions were determined based on a vendor factor of |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Compounds | | | ENG. JUDGEMENT | | | | | | | 0.015lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 11lb OC/MMCF natural gas burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000019 | 1.9E-05 | TONs | Engineering judgement is based on a vendor factor of 0.0005lb Pb per 1,000,000 cubic feet of natural gas. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.072533 | 0.072533 | TONs | An emissions factor of 1.9lb PE per million cubic feet of natural gas was assumed based on AP-42 factors. |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.072533 | 0.072533 | TONs | Engineering judgement is based on a vendor factor of 1.90 lb PE per 1,000,000 cubic feet of natural gas. Assume PE=PM10=PM2.5 |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.072533 | 0.072533 | TONs | Engineering judgement is based on a vendor factor of 1.90lb PE per 1,000,000 cubic feet of natural gas. Assume PE=PM10=PM2.5 |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.5726 | 0.5726 | TONs | Engineering judgement is based on a vendor factor of 0.015lbVOC/MMBtu |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.1222 | 0.1222 | TONs | This total is based on EPA Emission factor of 3.2lbs NH3/per million cubic feet. |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 7.635 | 7.635 | TONs | Engineering judgement is based on a vendor factor of 0.2lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 6.39406 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEP | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A (auto calculate) | | | | | | | |
| Acenaphthylene | 208968 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |
| Acetaldehyde | 75070 | factor:OEP A (auto calculate) | 0 | 0.0209 | 0. | 7.97857E-04 | 7.97857E-04 | TONs | |
| Acrolein | 107028 | factor:OEP A (auto calculate) | 0 | 0.018 | 0. | 6.8715E-04 | 6.8715E-04 | TONs | |
| Anthracene | 120127 | factor:OEP A (auto calculate) | 0 | 1.2E-06 | 0. | 4.581E-08 | 4.581E-08 | TONs | |
| Arsenic | 7440382 | factor:OEP A (auto calculate) | 0 | 2E-04 | 0. | 7.635E-06 | 7.635E-06 | TONs | |
| Benz[A]Anthracene | 56553 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |
| Benzene | 71432 | factor:OEP A (auto calculate) | 0 | 0.0021 | 0. | 8.01675E-05 | 8.01675E-05 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEP A (auto calculate) | 0 | 6E-07 | 0. | 2.2905E-08 | 2.2905E-08 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |
| Benzo[G,H,I,]Perylene | 191242 | factor:OEP A (auto calculate) | 0 | 6E-07 | 0. | 2.2905E-08 | 2.2905E-08 | TONs | |
| Benzo[K]Fluoranthene | 207089 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |
| Beryllium | 7440417 | factor:OEP A (auto calculate) | 0 | 6E-06 | 0. | 2.2905E-07 | 2.2905E-07 | TONs | |
| Cadmium | 7440439 | factor:OEP A (auto calculate) | 0 | 0.0011 | 0. | 4.19925E-05 | 4.19925E-05 | TONs | |
| Chromium | 7440473 | factor:OEP | 0 | 0.0014 | 0. | 5.3445E-05 | 5.3445E-05 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A (auto calculate) | | | | | | | |
| Chrysene | 218019 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |
| Cobalt | 7440484 | factor:OEP A (auto calculate) | 0 | 8.4E-05 | 0. | 3.2067E-06 | 3.2067E-06 | TONs | |
| Dibenzo[A,H]Anthracene | 53703 | factor:OEP A (auto calculate) | 0 | 6E-07 | 0. | 2.2905E-08 | 2.2905E-08 | TONs | |
| Dimethylbenz[A]Anthracene, 7,12- | 57976 | factor:OEP A (auto calculate) | 0 | 8E-06 | 0. | 3.054E-07 | 3.054E-07 | TONs | |
| Fluoranthene | 206440 | factor:OEP A (auto calculate) | 0 | 3E-06 | 0. | 1.14525E-07 | 1.14525E-07 | TONs | |
| Fluorene | 86737 | factor:OEP A (auto calculate) | 0 | 2.8E-06 | 0. | 1.0689E-07 | 1.0689E-07 | TONs | |
| Formaldehyde | 50000 | factor:OEP A (auto calculate) | 0 | 0.075 | 0. | 0.00286312 | 0.00286312 | TONs | |
| Hexane, N- | 110543 | factor:OEP A (auto calculate) | 0 | 1.8 | 0. | 0.068715 | 0.068715 | TONs | |
| Indeno[1,2,3-C,D]Pyrene | 193395 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |
| MN - Manganese | 7439965 | factor:OEP A (auto calculate) | 0 | 3.8E-04 | 0. | 1.45065E-05 | 1.45065E-05 | TONs | |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | factor:OEP A (auto calculate) | 0 | 2.6E-04 | 0. | 9.9255E-06 | 9.9255E-06 | TONs | |
| Methylcholanthrene, 3- | 56495 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 3.43575E-08 | 3.43575E-08 | TONs | |
| Methylnaphthalene, 2- | 91576 | factor:OEP A (auto | 0 | 2.4E-05 | 0. | 9.162E-07 | 9.162E-07 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Naphthalene | 91203 | factor:OEPA (auto calculate) | 0 | 6.1E-04 | 0. | 2.32868E-05 | 2.32868E-05 | TONs | |
| Nickel | 7440020 | factor:OEPA (auto calculate) | 0 | 0.0021 | 0. | 8.01675E-05 | 8.01675E-05 | TONs | |
| Phenanthrene | 85018 | factor:OEPA (auto calculate) | 0 | 1.7E-05 | 0. | 6.48975E-07 | 6.48975E-07 | TONs | |
| Polycyclic Organic Matter | 246 | factor:OEPA (auto calculate) | 0 | 6.49E-04 | 0. | 2.47756E-05 | 2.47756E-05 | TONs | |
| Pyrene | 129000 | factor:OEPA (auto calculate) | 0 | 5E-06 | 0. | 1.90875E-07 | 1.90875E-07 | TONs | |
| Selenium | 7782492 | factor:OEPA (auto calculate) | 0 | 1.2E-05 | 0. | 4.581E-07 | 4.581E-07 | TONs | |
| Toluene | 108883 | factor:OEPA (auto calculate) | 0 | 0.0034 | 0. | 1.29795E-04 | 1.29795E-04 | TONs | |

# Emission Unit Summary: B002

Oct 11 2011, 15:21:23

Emissions Unit ID: B002

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0. | 0.368763 | 0.368763 | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0. | 0.0388543 | 0.0388543 | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0. | 9.7021 | 9.7021 | TONs | |
| Organic Compounds | OC | X | 0. | 0.9811 | 0.9811 | TONs | |
| Pb - Lead | 7439921 | X | 0. | 3.253E-05 | 3.253E-05 | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0. | 0.12417 | 0.12417 | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0. | 0.12359 | 0.12359 | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0. | 0.123147 | 0.123147 | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 0. | 0.97021 | 0.97021 | TONs | |
| Ammonia | NH3 | | 0. | 0.20717 | 0.20717 | TONs | |
| CO - Carbon Monoxide | CO | | 0. | 12.9361 | 12.9361 | TONs | |
| Total of Chargable Pollutants | | | | | 10.8463 | TONS | |

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 3.69252E-07 | 3.69252E-07 | TONs |
| Acenaphthylene | 208968 | 0. | 1.75542E-07 | 1.75542E-07 | TONs |
| Acetaldehyde | 75070 | 0. | 0.00135018 | 0.00135018 | TONs |
| Acrolein | 107028 | 0. | 0.00116284 | 0.00116284 | TONs |
| Anthracene | 120127 | 0. | 1.83182E-07 | 1.83182E-07 | TONs |
| Arsenic | 7440382 | 0. | 1.32429E-05 | 1.32429E-05 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Benz[A]Anthracene | 56553 | 0. | 3.76615E-07 | 3.76615E-07 | TONs |
| Benzene | 71432 | 0. | 1.37278E-04 | 1.37278E-04 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 3.95478E-08 | 3.95478E-08 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 1.16842E-07 | 1.16842E-07 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 3.87612E-08 | 3.87612E-08 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 5.81418E-08 | 5.81418E-08 | TONs |
| Beryllium | 7440417 | 0. | 6.29482E-07 | 6.29482E-07 | TONs |
| Cadmium | 7440439 | 0. | 7.13041E-05 | 7.13041E-05 | TONs |
| Chromium | 7440473 | 0. | 9.06847E-05 | 9.06847E-05 | TONs |
| Chrysene | 218019 | 0. | 6.4511E-08 | 6.4511E-08 | TONs |
| Cobalt | 7440484 | 0. | 5.42657E-06 | 5.42657E-06 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 3.87612E-08 | 3.87612E-08 | TONs |
| Dimethylbenz[A]Anthracene, 7,12- | 57976 | 0. | 5.16816E-07 | 5.16816E-07 | TONs |
| Fluoranthene | 206440 | 0. | 2.19634E-07 | 2.19634E-07 | TONs |
| Fluorene | 86737 | 0. | 1.9967E-07 | 1.9967E-07 | TONs |
| Formaldehyde | 50000 | 0. | 0.0206941 | 0.0206941 | TONs |
| Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8- | 35822469 | 0. | 8.805E-12 | 8.805E-12 | TONs |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562394 | 0. | 2.0545E-12 | 2.0545E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin | 34465468 | 0. | 3.6394E-12 | 3.6394E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8- | 39227286 | 0. | 4.0503E-13 | 4.0503E-13 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9- | 19408743 | 0. | 4.4612E-13 | 4.4612E-13 | TONs |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648269 | 0. | 1.0481E-11 | 1.0481E-11 | TONs |
| Hexane, N- | 110543 | 0. | 0.116284 | 0.116284 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 5.81418E-08 | 5.81418E-08 | TONs |
| MN - Manganese | 7439965 | 0. | 2.50325E-05 | 2.50325E-05 | TONs |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | 0. | 1.70384E-05 | 1.70384E-05 | TONs |
| Methylcholanthrene, 3- | 56495 | 0. | 5.81418E-08 | 5.81418E-08 | TONs |
| Methylnaphthalene, 2- | 91576 | 0. | 1.55045E-06 | 1.55045E-06 | TONs |
| Naphthalene | 91203 | 0. | 4.93862E-05 | 4.93862E-05 | TONs |
| Nickel | 7440020 | 0. | 1.35906E-04 | 1.35906E-04 | TONs |
| Octachlorodibenzo-P-Dioxin | 3268879 | 0. | 9.392E-11 | 9.392E-11 | TONs |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Octachlorodibenzofuran | 39001020 | 0. | 7.044E-12 | 7.044E-12 | TONs |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 57117416 | 0. | 4.8374E-12 | 4.8374E-12 | TONs |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117314 | 0. | 8.06233E-12 | 8.06233E-12 | TONs |
| Phenanthrene | 85018 | 0. | 3.97453E-06 | 3.97453E-06 | TONs |
| Polycyclic Organic Matter | 246 | 0. | 4.38638E-05 | 4.38638E-05 | TONs |
| Pyrene | 129000 | 0. | 3.41794E-07 | 3.41794E-07 | TONs |
| Selenium | 7782492 | 0. | 1.98457E-06 | 1.98457E-06 | TONs |
| Tetrachlorodibenzofuran, 2,3,7,8- | 51207319 | 0. | 5.07926E-11 | 5.07926E-11 | TONs |
| Toluene | 108883 | 0. | 2.19647E-04 | 2.19647E-04 | TONs |
| Total Heptachlorodibenzo-P-Dioxin | 37871004 | 0. | 1.174E-11 | 1.174E-11 | TONs |
| Total Pentachlorodibenzofuran | 30402154 | 0. | 2.8176E-13 | 2.8176E-13 | TONs |

## - Processes

### - Process & Emissions Detail

Name: B002-3

Source Classification Code (SCC): 1-02-005-02

#### - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 8

Hours Per Year: 8

Winter (Dec - Feb)%: 87

Spring (March-May)%: 5

Summer (June-Aug)%: 8

Fall (Sept-Nov)%: 0

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Distillate Oil | Burned | 1.174 | 1000 GALLONS |

| Variable | Amount | Meaning |
|---|---|---|
| HCl | 137348 | Liquid Heat Content (Btu/gallons) |
| S | 0.00067 | % Sulfur content by weight |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.000763 | 7.63E-04 | TONs | An AP-42 emissions factor of 1.3 lb per 1000 gallons of fuel burned has been used to determine condensible PE. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0000543 | 5.43E-05 | TONs | Sulfur Dioxide generation rate is based on sulfur content data supplied by the fuel oil vendor. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0121 | 0.0121 | TONs | NOx emissions were determined based on a vendor supplied factor 0.15lbNOx/MMBtu. |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0121 | 0.0121 | TONs | OC Emissions were determined based on a vendor factor of 0.015lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 0.252lb OC/1000gallons fuel oil burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00000053 | 5.3E-07 | TONs | Pb emissions rates are based on an AP-42 factor of 0.0009 lb PB per 1000 gallons of fuel oil burned. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00117 | 0.00117 | TONs | Filterable PE emissions rates are based on an An AP-42 factor of 2.0 lb per 1000 gallons of fuel oil burned |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.00059 | 5.9E-04 | TONs | Filterable PM10 emissions rates are based on an An AP-42 factor of 1.0 lb per 1000 gallons of fuel oil burned |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000147 | 1.47E-04 | TONs | Filterable PM10 emissions rates are based on an An AP-42 factor of 1.0 lb per 1000 gallons of fuel oil burned |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.00121 | 0.00121 | TONs | VOC emissions were determined based on a vendor supplied factor 0.015lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.00047 | 4.7E-04 | TONs | NH3 emissions were determined based on the AP-42 factor 0.8 lb NH3 per 1000 gallon of fuel oil. |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0.01612 | 0.01612 | TONs | CO emissions were determined based on a vendor supplied factor 0.20lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 0.0254248 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto calculate) | 0 | 5.3E-04 | 0. | 3.1111E-07 | 3.1111E-07 | TONs | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 2E-04 | 0. | 1.174E-07 | 1.174E-07 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto calculate) | 0 | 1.8E-04 | 0. | 1.0566E-07 | 1.0566E-07 | TONs | |
| Arsenic | 7440382 | factor:OEPA (auto calculate) | 0 | 5.49392E-04 | 0. | 3.22493E-07 | 3.22493E-07 | TONs | |
| Benz[A]Anthracene | 56553 | factor:OEPA (auto calculate) | 0 | 5.42544E-04 | 0. | 3.18473E-07 | 3.18473E-07 | TONs | |
| Benzene | 71432 | factor:OEPA (auto calculate) | 0 | 0.00275 | 0. | 1.61425E-06 | 1.61425E-06 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEPA (auto calculate) | 0 | 1.34E-06 | 0. | 7.8658E-10 | 7.8658E-10 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEPA (auto calculate) | 0 | 1E-04 | 0. | 5.87E-08 | 5.87E-08 | TONs | |
| Beryllium | 7440417 | factor:OEP | 0 | 4.12044E | 0. | 2.4187E-07 | 2.4187E-07 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A (auto calculate) | | -04 | | | | | |
| Cadmium | 7440439 | factor:OEP A (auto calculate) | 0 | 4.12044E -04 | 0. | 2.4187E-07 | 2.4187E-07 | TONs | |
| Chromium | 7440473 | factor:OEP A (auto calculate) | 0 | 4.12044E -04 | 0. | 2.4187E-07 | 2.4187E-07 | TONs | |
| Chrysene | 218019 | factor:OEP A (auto calculate) | 0 | 1.08505E -05 | 0. | 6.36924E-09 | 6.36924E-09 | TONs | |
| Fluoranthene | 206440 | factor:OEP A (auto calculate) | 0 | 4.4E-05 | 0. | 2.5828E-08 | 2.5828E-08 | TONs | |
| Fluorene | 86737 | factor:OEP A (auto calculate) | 0 | 3.2E-05 | 0. | 1.8784E-08 | 1.8784E-08 | TONs | |
| Formaldehyde | 50000 | factor:OEP A (auto calculate) | 0 | 27 | 0. | 0.015849 | 0.015849 | TONs | |
| Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8- | 35822469 | factor:OEP A (auto calculate) | 0 | 1.5E-08 | 0. | 8.805E-12 | 8.805E-12 | TONs | |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562394 | factor:OEP A (auto calculate) | 0 | 3.5E-09 | 0. | 2.0545E-12 | 2.0545E-12 | TONs | |
| Hexachlorodibenzo-P-Dioxin | 34465468 | factor:OEP A (auto calculate) | 0 | 6.2E-09 | 0. | 3.6394E-12 | 3.6394E-12 | TONs | |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8- | 39227286 | factor:OEP A (auto calculate) | 0 | 6.9E-10 | 0. | 4.0503E-13 | 4.0503E-13 | TONs | |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9- | 19408743 | factor:OEP A (auto calculate) | 0 | 7.6E-10 | 0. | 4.4612E-13 | 4.4612E-13 | TONs | |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648269 | factor:OEP A (auto calculate) | 0 | 1.78552E -08 | 0. | 1.0481E-11 | 1.0481E-11 | TONs | |
| MN - Manganese | 7439965 | factor:OEP A (auto calculate) | 0 | 8.24088E -04 | 0. | 4.8374E-07 | 4.8374E-07 | TONs | |
| Mercury, as HG; | 7439976 | factor:OEP | 0 | 4.12044E | 0. | 2.4187E-07 | 2.4187E-07 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | | A (auto calculate) | | -04 | | | | | |
| Naphthalene | 91203 | factor:OEP A (auto calculate) | 0 | 0.017 | 0. | 9.979E-06 | 9.979E-06 | TONs | |
| Nickel | 7440020 | factor:OEP A (auto calculate) | 0 | 4.12044E -04 | 0. | 2.4187E-07 | 2.4187E-07 | TONs | |
| Octachlorodibenzo-P-Dioxin | 3268879 | factor:OEP A (auto calculate) | 0 | 1.6E-07 | 0. | 9.392E-11 | 9.392E-11 | TONs | |
| Octachlorodibenzofuran | 39001020 | factor:OEP A (auto calculate) | 0 | 1.2E-08 | 0. | 7.044E-12 | 7.044E-12 | TONs | |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 57117416 | factor:OEP A (auto calculate) | 0 | 8.24088E -09 | 0. | 4.8374E-12 | 4.8374E-12 | TONs | |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117314 | factor:OEP A (auto calculate) | 0 | 1.37348E -08 | 0. | 8.06233E-12 | 8.06233E-12 | TONs | |
| Phenanthrene | 85018 | factor:OEP A (auto calculate) | 0 | 0.0049 | 0. | 2.8763E-06 | 2.8763E-06 | TONs | |
| Polycyclic Organic Matter | 246 | factor:OEP A (auto calculate) | 0 | 0.0033 | 0. | 1.9371E-06 | 1.9371E-06 | TONs | |
| Pyrene | 129000 | factor:OEP A (auto calculate) | 0 | 3.2E-05 | 0. | 1.8784E-08 | 1.8784E-08 | TONs | |
| Selenium | 7782492 | factor:OEP A (auto calculate) | 0 | 0.00206022 | 0. | 1.20935E-06 | 1.20935E-06 | TONs | |
| Tetrachlorodibenzofuran, 2,3,7,8- | 51207319 | factor:OEP A (auto calculate) | 0 | 8.65292E -08 | 0. | 5.07926E-11 | 5.07926E-11 | TONs | |
| Total Heptachlorodibenzo-P-Dioxin | 37871004 | factor:OEP A (auto calculate) | 0 | 2E-08 | 0. | 1.174E-11 | 1.174E-11 | TONs | |
| Total Pentachlorodibe | 30402154 | factor:OEP A (auto | 0 | 4.8E-10 | 0. | 2.8176E-13 | 2.8176E-13 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| nzofuran | | calculate) | | | | | | | |

## - Process & Emissions Detail

Name: B002-4

Source Classification Code (SCC): 1-02-006-02

## - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 17

Days Per Week: 7

Weeks Per Year: 30

Hours Per Year: 3497

Winter (Dec - Feb)%: 37

Spring (March-May)%: 46

Summer (June-Aug)%: 1

Fall (Sept-Nov)%: 16

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Natural Gas | Burned | 129.204 | MILLION CUBIC FEET |

| Variable | Amount | Meaning |
|---|---|---|
| HCg | 1000 | Gas Heat Content (Btu/Cubic Feet) |

## - Process Emissions

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.368 | 0.368 | TONs | Condensible PE Emissions were assumed based on an AP-42 factor of 0.0077lb/MMBtu. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0388 | 0.0388 | TONs | SO2 Emissions were assumed based on an AP-42 factor of 0.6 lb SO2 per million cubic feet of natural gas. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 9.69 | 9.69 | TONs | NOx Emissions were assumed based on a vendor factor of 0.15lbNOx/MMBtu. |
| Organic | OC | X | emissions: | | | 0 | 0.969 | 0.969 | TONs | OC Emissions were determined based on a vendor factor of |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Compounds | | | ENG. JUDGEMENT | | | | | | | 0.015lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 11lb OC/MMCF natural gas burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000032 | 3.2E-05 | TONs | Pb Emissions were assumed based on an AP-42 factor of 0.0005 lb Pb per million cubic feet of natural gas. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.123 | 0.123 | TONs | Filterable PE Emissions were assumed based on an AP-42 factor of 1.90 lb Filterable PE per million cubic feet of natural gas. |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.123 | 0.123 | TONs | Filterable PM10 Emissions were assumed based on an AP-42 factor of 1.9 lb Filterable PM10 per million cubic feet of natural gas. Assume PE=PM10=PM2.5. |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.123 | 0.123 | TONs | Filterable PM2.5Emissions were assumed based on an AP-42 factor of 1.9 lb Filterable PM2.5 per million cubic feet of natural gas. Assume PE=PM10=PM2.5. |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.969 | 0.969 | TONs | VOC Emissions were assumed based on a vendor factor of 0.015lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.2067 | 0.2067 | TONs | NH3 Emissions were assumed based on an AP-42 factor of 3.2 lb NH3 per million cubic feet of natural gas. |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 12.92 | 12.92 | TONs | CO Emissions were assumed based on a vendor factor of 0.20lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 10.8208 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEP | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A (auto calculate) | | | | | | | |
| Acenaphthylene | 208968 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |
| Acetaldehyde | 75070 | factor:OEP A (auto calculate) | 0 | 0.0209 | 0. | 0.00135018 | 0.00135018 | TONs | |
| Acrolein | 107028 | factor:OEP A (auto calculate) | 0 | 0.018 | 0. | 0.00116284 | 0.00116284 | TONs | |
| Anthracene | 120127 | factor:OEP A (auto calculate) | 0 | 1.2E-06 | 0. | 7.75224E-08 | 7.75224E-08 | TONs | |
| Arsenic | 7440382 | factor:OEP A (auto calculate) | 0 | 2E-04 | 0. | 1.29204E-05 | 1.29204E-05 | TONs | |
| Benz[A]Anthracene | 56553 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |
| Benzene | 71432 | factor:OEP A (auto calculate) | 0 | 0.0021 | 0. | 1.35664E-04 | 1.35664E-04 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEP A (auto calculate) | 0 | 6E-07 | 0. | 3.87612E-08 | 3.87612E-08 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |
| Benzo[G,H,I,]Perylene | 191242 | factor:OEP A (auto calculate) | 0 | 6E-07 | 0. | 3.87612E-08 | 3.87612E-08 | TONs | |
| Benzo[K]Fluoranthene | 207089 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |
| Beryllium | 7440417 | factor:OEP A (auto calculate) | 0 | 6E-06 | 0. | 3.87612E-07 | 3.87612E-07 | TONs | |
| Cadmium | 7440439 | factor:OEP A (auto calculate) | 0 | 0.0011 | 0. | 7.10622E-05 | 7.10622E-05 | TONs | |
| Chromium | 7440473 | factor:OEP | 0 | 0.0014 | 0. | 9.04428E-05 | 9.04428E-05 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A (auto calculate) | | | | | | | |
| Chrysene | 218019 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |
| Cobalt | 7440484 | factor:OEP A (auto calculate) | 0 | 8.4E-05 | 0. | 5.42657E-06 | 5.42657E-06 | TONs | |
| Dibenzo[A,H]Anthracene | 53703 | factor:OEP A (auto calculate) | 0 | 6E-07 | 0. | 3.87612E-08 | 3.87612E-08 | TONs | |
| Dimethylbenz[A]Anthracene, 7,12- | 57976 | factor:OEP A (auto calculate) | 0 | 8E-06 | 0. | 5.16816E-07 | 5.16816E-07 | TONs | |
| Fluoranthene | 206440 | factor:OEP A (auto calculate) | 0 | 3E-06 | 0. | 1.93806E-07 | 1.93806E-07 | TONs | |
| Fluorene | 86737 | factor:OEP A (auto calculate) | 0 | 2.8E-06 | 0. | 1.80886E-07 | 1.80886E-07 | TONs | |
| Formaldehyde | 50000 | factor:OEP A (auto calculate) | 0 | 0.075 | 0. | 0.00484515 | 0.00484515 | TONs | |
| Hexane, N- | 110543 | factor:OEP A (auto calculate) | 0 | 1.8 | 0. | 0.116284 | 0.116284 | TONs | |
| Indeno[1,2,3-C,D]Pyrene | 193395 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |
| MN - Manganese | 7439965 | factor:OEP A (auto calculate) | 0 | 3.8E-04 | 0. | 2.45488E-05 | 2.45488E-05 | TONs | |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | factor:OEP A (auto calculate) | 0 | 2.6E-04 | 0. | 1.67965E-05 | 1.67965E-05 | TONs | |
| Methylcholanthrene, 3- | 56495 | factor:OEP A (auto calculate) | 0 | 9E-07 | 0. | 5.81418E-08 | 5.81418E-08 | TONs | |
| Methylnaphthalene, 2- | 91576 | factor:OEP A (auto | 0 | 2.4E-05 | 0. | 1.55045E-06 | 1.55045E-06 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Naphthalene | 91203 | factor:OEPA (auto calculate) | 0 | 6.1E-04 | 0. | 3.94072E-05 | 3.94072E-05 | TONs | |
| Nickel | 7440020 | factor:OEPA (auto calculate) | 0 | 0.0021 | 0. | 1.35664E-04 | 1.35664E-04 | TONs | |
| Phenanthrene | 85018 | factor:OEPA (auto calculate) | 0 | 1.7E-05 | 0. | 1.09823E-06 | 1.09823E-06 | TONs | |
| Polycyclic Organic Matter | 246 | factor:OEPA (auto calculate) | 0 | 6.49E-04 | 0. | 4.19267E-05 | 4.19267E-05 | TONs | |
| Pyrene | 129000 | factor:OEPA (auto calculate) | 0 | 5E-06 | 0. | 3.2301E-07 | 3.2301E-07 | TONs | |
| Selenium | 7782492 | factor:OEPA (auto calculate) | 0 | 1.2E-05 | 0. | 7.75224E-07 | 7.75224E-07 | TONs | |
| Toluene | 108883 | factor:OEPA (auto calculate) | 0 | 0.0034 | 0. | 2.19647E-04 | 2.19647E-04 | TONs | |

# Emission Unit Summary: B003

Oct 11 2011, 15:21:23

Emissions Unit ID: B003

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0. | 0.22146 | 0.22146 | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0. | 0.023233 | 0.023233 | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0. | 5.8173 | 5.8173 | TONs | |
| Organic Compounds | OC | X | 0. | 0.58173 | 0.58173 | TONs | |
| Pb - Lead | 7439921 | X | 0. | 1.972E-05 | 1.972E-05 | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0. | 0.07431 | 0.07431 | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0. | 0.073955 | 0.073955 | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0. | 0.073689 | 0.073689 | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 0. | 0.58173 | 0.58173 | TONs | |
| Ammonia | NH3 | | 0. | 0.124284 | 0.124284 | TONs | |
| CO - Carbon Monoxide | CO | | 0. | 7.75474 | 7.75474 | TONs | |
| Total of Chargable Pollutants | | | | | 6.49659 | TONS | |

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 2.22737E-07 | 2.22737E-07 | TONs |
| Acenaphthylene | 208968 | 0. | 1.05752E-07 | 1.05752E-07 | TONs |
| Acetaldehyde | 75070 | 0. | 8.09332E-04 | 8.09332E-04 | TONs |
| Acrolein | 107028 | 0. | 6.97032E-04 | 6.97032E-04 | TONs |
| Anthracene | 120127 | 0. | 1.10279E-07 | 1.10279E-07 | TONs |
| Arsenic | 7440382 | 0. | 7.93956E-06 | 7.93956E-06 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Benz[A]Anthracene | 56553 | 0. | 2.27184E-07 | 2.27184E-07 | TONs |
| Benzene | 71432 | 0. | 8.22953E-05 | 8.22953E-05 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 2.37094E-08 | 2.37094E-08 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 7.03016E-08 | 7.03016E-08 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 2.32344E-08 | 2.32344E-08 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 3.48516E-08 | 3.48516E-08 | TONs |
| Beryllium | 7440417 | 0. | 3.78414E-07 | 3.78414E-07 | TONs |
| Cadmium | 7440439 | 0. | 4.27425E-05 | 4.27425E-05 | TONs |
| Chromium | 7440473 | 0. | 5.43597E-05 | 5.43597E-05 | TONs |
| Chrysene | 218019 | 0. | 3.86981E-08 | 3.86981E-08 | TONs |
| Cobalt | 7440484 | 0. | 3.25282E-06 | 3.25282E-06 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 2.32344E-08 | 2.32344E-08 | TONs |
| Dimethylbenz[A]Anthracene, 7,12- | 57976 | 0. | 3.09792E-07 | 3.09792E-07 | TONs |
| Fluoranthene | 206440 | 0. | 1.3177E-07 | 1.3177E-07 | TONs |
| Fluorene | 86737 | 0. | 1.19771E-07 | 1.19771E-07 | TONs |
| Formaldehyde | 50000 | 0. | 0.0124758 | 0.0124758 | TONs |
| Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8- | 35822469 | 0. | 5.3175E-12 | 5.3175E-12 | TONs |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562394 | 0. | 1.24075E-12 | 1.24075E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin | 34465468 | 0. | 2.1979E-12 | 2.1979E-12 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8- | 39227286 | 0. | 2.44605E-13 | 2.44605E-13 | TONs |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9- | 19408743 | 0. | 2.6942E-13 | 2.6942E-13 | TONs |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648269 | 0. | 6.32967E-12 | 6.32967E-12 | TONs |
| Hexane, N- | 110543 | 0. | 0.0697032 | 0.0697032 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 3.48516E-08 | 3.48516E-08 | TONs |
| MN - Manganese | 7439965 | 0. | 1.50072E-05 | 1.50072E-05 | TONs |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | 0. | 1.02143E-05 | 1.02143E-05 | TONs |
| Methylcholanthrene, 3- | 56495 | 0. | 3.48516E-08 | 3.48516E-08 | TONs |
| Methylnaphthalene, 2- | 91576 | 0. | 9.29376E-07 | 9.29376E-07 | TONs |
| Naphthalene | 91203 | 0. | 2.96481E-05 | 2.96481E-05 | TONs |
| Nickel | 7440020 | 0. | 8.14665E-05 | 8.14665E-05 | TONs |
| Octachlorodibenzo-P-Dioxin | 3268879 | 0. | 5.672E-11 | 5.672E-11 | TONs |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Octachlorodibenzofuran | 39001020 | 0. | 4.254E-12 | 4.254E-12 | TONs |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 57117416 | 0. | 2.92139E-12 | 2.92139E-12 | TONs |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117314 | 0. | 4.86899E-12 | 4.86899E-12 | TONs |
| Phenanthrene | 85018 | 0. | 2.39536E-06 | 2.39536E-06 | TONs |
| Polycyclic Organic Matter | 246 | 0. | 2.63018E-05 | 2.63018E-05 | TONs |
| Pyrene | 129000 | 0. | 2.04964E-07 | 2.04964E-07 | TONs |
| Selenium | 7782492 | 0. | 1.19504E-06 | 1.19504E-06 | TONs |
| Tetrachlorodibenzofuran, 2,3,7,8- | 51207319 | 0. | 3.06746E-11 | 3.06746E-11 | TONs |
| Toluene | 108883 | 0. | 1.31662E-04 | 1.31662E-04 | TONs |
| Total Heptachlorodibenzo-P-Dioxin | 37871004 | 0. | 7.09E-12 | 7.09E-12 | TONs |
| Total Pentachlorodibenzofuran | 30402154 | 0. | 1.7016E-13 | 1.7016E-13 | TONs |

## - Processes

### - Process & Emissions Detail

Name: B003-7

Source Classification Code (SCC): 1-02-006-02

#### - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 13

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 4567

Winter (Dec - Feb)%: 11

Spring (March-May)%: 13

Summer (June-Aug)%: 48

Fall (Sept-Nov)%: 28

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Natural Gas | Burned | 77.448 | MILLION CUBIC FEET |

| Variable | Amount | Meaning |
|---|---|---|
| HCg | 1000 | Gas Heat Content (Btu/Cubic Feet) |

#### - Process Emissions

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.221 | 0.221 | TONs | Condensible PE Emissions were determined based on an AP-42 factor of 0.0077lb/MMBtu. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0232 | 0.0232 | TONs | SO2 Emissions were determined based on an AP-42 factor of 0.6 lb SO2 per million cubic feet of natural gas. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 5.81 | 5.81 | TONs | NOx Emissions were determined based on a vendor factor of 0.15lbNOx/MMBtu. |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0 | 0.581 | 0.581 | TONs | OC Emissions were determined based on a vendor factor of 0.015lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 11lb OC/MMCF natural gas burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0000194 | 1.94E-05 | TONs | Pb Emissions were determined based on an AP-42 factor of 0.0005 lb Pb per million cubic feet of natural gas. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0736 | 0.0736 | TONs | Filterable PE Emissions were determined based on an AP-42 factor of 1.90 lb Filterable PE per million cubic feet of natural gas. |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.0736 | 0.0736 | TONs | Filterable PM10 Emissions were determined based on an AP-42 factor of 1.9 lb Filterable PM10 per million cubic feet of natural gas. Assume PE=PM10=PM2.5. |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.0736 | 0.0736 | TONs | Filterable PM2.5Emissions were determined based on an AP-42 factor of 1.9 lb Filterable PM2.5 per million cubic feet of natural gas. Assume PE=PM10=PM2.5. |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.581 | 0.581 | TONs | VOC Emissions were determined based on a vendor factor of 0.015lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.124 | 0.124 | TONs | NH3 Emissions were determined based on an AP-42 factor of 3.2 lb NH3 per million cubic feet of natural gas. |
| CO - Carbon | CO | | emissions: | | | 0 | 7.745 | 7.745 | TONs | CO Emissions were determined based on a vendor factor of |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Monoxide | | | ENG. JUDGEMENT | | | | | | | 0.20lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 6.48782 | TONS | |

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

## Process Emissions

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| Acetaldehyde | 75070 | factor:OEPA (auto calculate) | 0 | 0.0209 | 0. | 8.09332E-04 | 8.09332E-04 | TONs | |
| Acrolein | 107028 | factor:OEPA (auto calculate) | 0 | 0.018 | 0. | 6.97032E-04 | 6.97032E-04 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto calculate) | 0 | 1.2E-06 | 0. | 4.64688E-08 | 4.64688E-08 | TONs | |
| Arsenic | 7440382 | factor:OEPA (auto calculate) | 0 | 2E-04 | 0. | 7.7448E-06 | 7.7448E-06 | TONs | |
| Benz[A]Anthracene | 56553 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| Benzene | 71432 | factor:OEPA (auto calculate) | 0 | 0.0021 | 0. | 8.13204E-05 | 8.13204E-05 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEPA (auto | 0 | 6E-07 | 0. | 2.32344E-08 | 2.32344E-08 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Benzo[B]Fluoranthene | 205992 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| Benzo[G,H,I,]Perylene | 191242 | factor:OEPA (auto calculate) | 0 | 6E-07 | 0. | 2.32344E-08 | 2.32344E-08 | TONs | |
| Benzo[K]Fluoranthene | 207089 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| Beryllium | 7440417 | factor:OEPA (auto calculate) | 0 | 6E-06 | 0. | 2.32344E-07 | 2.32344E-07 | TONs | |
| Cadmium | 7440439 | factor:OEPA (auto calculate) | 0 | 0.0011 | 0. | 4.25964E-05 | 4.25964E-05 | TONs | |
| Chromium | 7440473 | factor:OEPA (auto calculate) | 0 | 0.0014 | 0. | 5.42136E-05 | 5.42136E-05 | TONs | |
| Chrysene | 218019 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| Cobalt | 7440484 | factor:OEPA (auto calculate) | 0 | 8.4E-05 | 0. | 3.25282E-06 | 3.25282E-06 | TONs | |
| Dibenzo[A,H]Anthracene | 53703 | factor:OEPA (auto calculate) | 0 | 6E-07 | 0. | 2.32344E-08 | 2.32344E-08 | TONs | |
| Dimethylbenz[A]Anthracene, 7,12- | 57976 | factor:OEPA (auto calculate) | 0 | 8E-06 | 0. | 3.09792E-07 | 3.09792E-07 | TONs | |
| Fluoranthene | 206440 | factor:OEPA (auto calculate) | 0 | 3E-06 | 0. | 1.16172E-07 | 1.16172E-07 | TONs | |
| Fluorene | 86737 | factor:OEPA (auto calculate) | 0 | 2.8E-06 | 0. | 1.08427E-07 | 1.08427E-07 | TONs | |
| Formaldehyde | 50000 | factor:OEPA (auto calculate) | 0 | 0.075 | 0. | 0.0029043 | 0.0029043 | TONs | |
| Hexane, N- | 110543 | factor:OEPA (auto | 0 | 1.8 | 0. | 0.0697032 | 0.0697032 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Indeno[1,2,3-C,D]Pyrene | 193395 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| MN - Manganese | 7439965 | factor:OEPA (auto calculate) | 0 | 3.8E-04 | 0. | 1.47151E-05 | 1.47151E-05 | TONs | |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | factor:OEPA (auto calculate) | 0 | 2.6E-04 | 0. | 1.00682E-05 | 1.00682E-05 | TONs | |
| Methylcholanthrene, 3- | 56495 | factor:OEPA (auto calculate) | 0 | 9E-07 | 0. | 3.48516E-08 | 3.48516E-08 | TONs | |
| Methylnaphthalene, 2- | 91576 | factor:OEPA (auto calculate) | 0 | 2.4E-05 | 0. | 9.29376E-07 | 9.29376E-07 | TONs | |
| Naphthalene | 91203 | factor:OEPA (auto calculate) | 0 | 6.1E-04 | 0. | 2.36216E-05 | 2.36216E-05 | TONs | |
| Nickel | 7440020 | factor:OEPA (auto calculate) | 0 | 0.0021 | 0. | 8.13204E-05 | 8.13204E-05 | TONs | |
| Phenanthrene | 85018 | factor:OEPA (auto calculate) | 0 | 1.7E-05 | 0. | 6.58308E-07 | 6.58308E-07 | TONs | |
| Polycyclic Organic Matter | 246 | factor:OEPA (auto calculate) | 0 | 6.49E-04 | 0. | 2.51319E-05 | 2.51319E-05 | TONs | |
| Pyrene | 129000 | factor:OEPA (auto calculate) | 0 | 5E-06 | 0. | 1.9362E-07 | 1.9362E-07 | TONs | |
| Selenium | 7782492 | factor:OEPA (auto calculate) | 0 | 1.2E-05 | 0. | 4.64688E-07 | 4.64688E-07 | TONs | |
| Toluene | 108883 | factor:OEPA (auto calculate) | 0 | 0.0034 | 0. | 1.31662E-04 | 1.31662E-04 | TONs | |

- **Process & Emissions Detail**

Name: B003-6

Source Classification Code (SCC): 1-02-005-02

## - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 6

Hours Per Year: 6

Winter (Dec - Feb)%: 76

Spring (March-May)%: 21

Summer (June-Aug)%: 3

Fall (Sept-Nov)%: 0

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Distillate Oil | Burned | .709 | 1000 GALLONS |

| Variable | Amount | Meaning |
|---|---|---|
| HCl | 137348 | Liquid Heat Content (Btu/gallons) |
| S | 0.00067 | % Sulfur content by weight |

## - Process Emissions

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.00046 | 4.6E-04 | TONs | Consensible PE Emissions were assumed based on an AP-42 factor of 1.3 lb Condensible PE per 1,000 gallons of fuel oil. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000033 | 3.3E-05 | TONs | SO2 emissions were calculated based on fuel oil data supplied by the diesel vendor. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0073 | 0.0073 | TONs | NOx emissions were determined based on a vendor supplied factor 0.15lbNOx/MMBtu. |
| Organic Compounds | OC | X | emissions: ENG. | | | 0 | 0.00073 | 7.3E-04 | TONs | OC Emissions were determined based on a vendor factor of 0.015lbVOC/MMBtu. The FIRE Database v6.25 factor for OC |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | JUDGEMENT | | | | | | | emissions is 0.252lb OC/1000gallons fuel oil burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00000032 | 3.2E-07 | TONs | Pb emissions rates are based on an AP-42 factor of 0.0009 lb PB per 1000 gallons of fuel oil burned. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00071 | 7.1E-04 | TONs | Filterable PE emissions rates are based on an An AP-42 factor of 2.0 lb per 1000 gallons of fuel oil burned |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000355 | 3.55E-04 | TONs | Filterable PM10 emissions rates are based on an AP-42 factor of 1.0 lb per 1000 gallons of fuel oil burned |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000089 | 8.9E-05 | TONs | Filterable PM2.5 emissions rates are based on an AP-42 factor of 2.5 lb per 1000 gallons of fuel oil burned |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | .00073 | 7.3E-04 | TONs | VOC emissions were determined based on a vendor supplied factor 0.015lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.000284 | 2.84E-04 | TONs | NH3 Emissions were determined based on an AP-42 factor of 0.8 lb NH3 per 1,000 gallons of fuel oil. |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0.00974 | 0.00974 | TONs | CO Emissions were determined based on a vendor factor of 0.20lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 0.00877332 | TONS | |

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

## Process Emissions

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto | 0 | 5.3E-04 | 0. | 1.87885E-07 | 1.87885E-07 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 2E-04 | 0. | 7.09E-08 | 7.09E-08 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto calculate) | 0 | 1.8E-04 | 0. | 6.381E-08 | 6.381E-08 | TONs | |
| Arsenic | 7440382 | factor:OEPA (auto calculate) | 0 | 5.49392E-04 | 0. | 1.94759E-07 | 1.94759E-07 | TONs | |
| Benz[A]Anthracene | 56553 | factor:OEPA (auto calculate) | 0 | 5.42544E-04 | 0. | 1.92332E-07 | 1.92332E-07 | TONs | |
| Benzene | 71432 | factor:OEPA (auto calculate) | 0 | 0.00275 | 0. | 9.74875E-07 | 9.74875E-07 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEPA (auto calculate) | 0 | 1.34E-06 | 0. | 4.7503E-10 | 4.7503E-10 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEPA (auto calculate) | 0 | 1E-04 | 0. | 3.545E-08 | 3.545E-08 | TONs | |
| Beryllium | 7440417 | factor:OEPA (auto calculate) | 0 | 4.12044E-04 | 0. | 1.4607E-07 | 1.4607E-07 | TONs | |
| Cadmium | 7440439 | factor:OEPA (auto calculate) | 0 | 4.12044E-04 | 0. | 1.4607E-07 | 1.4607E-07 | TONs | |
| Chromium | 7440473 | factor:OEPA (auto calculate) | 0 | 4.12044E-04 | 0. | 1.4607E-07 | 1.4607E-07 | TONs | |
| Chrysene | 218019 | factor:OEPA (auto calculate) | 0 | 1.08505E-05 | 0. | 3.8465E-09 | 3.8465E-09 | TONs | |
| Fluoranthene | 206440 | factor:OEPA (auto calculate) | 0 | 4.4E-05 | 0. | 1.5598E-08 | 1.5598E-08 | TONs | |
| Fluorene | 86737 | factor:OEPA (auto calculate) | 0 | 3.2E-05 | 0. | 1.1344E-08 | 1.1344E-08 | TONs | |
| Formaldehyde | 50000 | factor:OEPA (auto | 0 | 27 | 0. | 0.0095715 | 0.0095715 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Heptachlorodibenzo-P-Dioxin, 1,2,3,4,6,7,8- | 35822469 | factor:OEPA (auto calculate) | 0 | 1.5E-08 | 0. | 5.3175E-12 | 5.3175E-12 | TONs | |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562394 | factor:OEPA (auto calculate) | 0 | 3.5E-09 | 0. | 1.24075E-12 | 1.24075E-12 | TONs | |
| Hexachlorodibenzo-P-Dioxin | 34465468 | factor:OEPA (auto calculate) | 0 | 6.2E-09 | 0. | 2.1979E-12 | 2.1979E-12 | TONs | |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,4,7,8- | 39227286 | factor:OEPA (auto calculate) | 0 | 6.9E-10 | 0. | 2.44605E-13 | 2.44605E-13 | TONs | |
| Hexachlorodibenzo-P-Dioxin, 1,2,3,7,8,9- | 19408743 | factor:OEPA (auto calculate) | 0 | 7.6E-10 | 0. | 2.6942E-13 | 2.6942E-13 | TONs | |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648269 | factor:OEPA (auto calculate) | 0 | 1.78552E-08 | 0. | 6.32967E-12 | 6.32967E-12 | TONs | |
| MN - Manganese | 7439965 | factor:OEPA (auto calculate) | 0 | 8.24088E-04 | 0. | 2.92139E-07 | 2.92139E-07 | TONs | |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | factor:OEPA (auto calculate) | 0 | 4.12044E-04 | 0. | 1.4607E-07 | 1.4607E-07 | TONs | |
| Naphthalene | 91203 | factor:OEPA (auto calculate) | 0 | 0.017 | 0. | 6.0265E-06 | 6.0265E-06 | TONs | |
| Nickel | 7440020 | factor:OEPA (auto calculate) | 0 | 4.12044E-04 | 0. | 1.4607E-07 | 1.4607E-07 | TONs | |
| Octachlorodibenzo-P-Dioxin | 3268879 | factor:OEPA (auto calculate) | 0 | 1.6E-07 | 0. | 5.672E-11 | 5.672E-11 | TONs | |
| Octachlorodibenzofuran | 39001020 | factor:OEPA (auto calculate) | 0 | 1.2E-08 | 0. | 4.254E-12 | 4.254E-12 | TONs | |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 57117416 | factor:OEPA (auto calculate) | 0 | 8.24088E-09 | 0. | 2.92139E-12 | 2.92139E-12 | TONs | |
| | | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117314 | factor:OEPA (auto calculate) | 0 | 1.37348E-08 | 0. | 4.86899E-12 | 4.86899E-12 | TONs | |
| Phenanthrene | 85018 | factor:OEPA (auto calculate) | 0 | 0.0049 | 0. | 1.73705E-06 | 1.73705E-06 | TONs | |
| Polycyclic Organic Matter | 246 | factor:OEPA (auto calculate) | 0 | 0.0033 | 0. | 1.16985E-06 | 1.16985E-06 | TONs | |
| Pyrene | 129000 | factor:OEPA (auto calculate) | 0 | 3.2E-05 | 0. | 1.1344E-08 | 1.1344E-08 | TONs | |
| Selenium | 7782492 | factor:OEPA (auto calculate) | 0 | 0.00206022 | 0. | 7.30348E-07 | 7.30348E-07 | TONs | |
| Tetrachlorodibenzofuran, 2,3,7,8- | 51207319 | factor:OEPA (auto calculate) | 0 | 8.65292E-08 | 0. | 3.06746E-11 | 3.06746E-11 | TONs | |
| Total Heptachlorodibenzo-P-Dioxin | 37871004 | factor:OEPA (auto calculate) | 0 | 2E-08 | 0. | 7.09E-12 | 7.09E-12 | TONs | |
| Total Pentachlorodibenzofuran | 30402154 | factor:OEPA (auto calculate) | 0 | 4.8E-10 | 0. | 1.7016E-13 | 1.7016E-13 | TONs | |

# Emission Unit Summary: P001

Oct 11 2011, 15:21:23

Emissions Unit ID: P001

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0 | 0.0000647 | 6.47E-05 | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0 | 0.0000057 | 5.7E-06 | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0 | 0.0271 | 0.0271 | TONs | |
| Organic Compounds | OC | X | 0 | 0.000762 | 7.62E-04 | TONs | |
| Pb - Lead | 7439921 | X | 0 | 0.00000006 | 6E-08 | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0 | 0.000525 | 5.25E-04 | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0 | 0.000484 | 4.84E-04 | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0 | 0.000465 | 4.65E-04 | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 0 | 0.000762 | 7.62E-04 | TONs | |
| Ammonia | NH3 | | 0 | 0.000179 | 1.79E-04 | TONs | |
| CO - Carbon Monoxide | CO | | 0 | 0.0072 | 0.0072 | TONs | |
| Total of Chargable Pollutants | | | | | 0.0283928 | TONS | |

---

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 3.95315E-08 | 3.95315E-08 | TONs |
| Acenaphthylene | 208968 | 0. | 7.79648E-08 | 7.79648E-08 | TONs |
| Acetaldehyde | 75070 | 0. | 2.12862E-07 | 2.12862E-07 | TONs |
| Acrolein | 107028 | 0. | 6.65615E-08 | 6.65615E-08 | TONs |
| Anthracene | 120127 | 0. | 1.03897E-08 | 1.03897E-08 | TONs |
| Benz[A]Anthracene | 56553 | 0. | 5.25398E-09 | 5.25398E-09 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Benzene | 71432 | 0. | 6.55479E-06 | 6.55479E-06 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 1.08543E-09 | 1.08543E-09 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 9.37604E-09 | 9.37604E-09 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 2.34824E-09 | 2.34824E-09 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 9.2071E-10 | 9.2071E-10 | TONs |
| Chrysene | 218019 | 0. | 1.29237E-08 | 1.29237E-08 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 1.46131E-09 | 1.46131E-09 | TONs |
| Fluoranthene | 206440 | 0. | 3.4041E-08 | 3.4041E-08 | TONs |
| Fluorene | 86737 | 0. | 1.0812E-07 | 1.0812E-07 | TONs |
| Formaldehyde | 50000 | 0. | 6.66463E-07 | 6.66463E-07 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 1.74851E-09 | 1.74851E-09 | TONs |
| Naphthalene | 91203 | 0. | 1.09809E-06 | 1.09809E-06 | TONs |
| PAH, 16- | 40 | 0. | 1.79074E-06 | 1.79074E-06 | TONs |
| Phenanthrene | 85018 | 0. | 3.44634E-07 | 3.44634E-07 | TONs |
| Pyrene | 129000 | 0. | 3.1338E-08 | 3.1338E-08 | TONs |
| Styrene | 100425 | 0. | 7.86407E-08 | 7.86407E-08 | TONs |
| Toluene | 108883 | 0. | 2.37358E-06 | 2.37358E-06 | TONs |
| Xylenes (Isomers and Mixture) | 1330207 | 0. | 1.63025E-06 | 1.63025E-06 | TONs |

## - Processes

### - Process & Emissions Detail

Name: P001-10

Source Classification Code (SCC): 2-02-004-01

#### - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 10

Hours Per Year: 9

Winter (Dec - Feb)%: 18

Spring (March-May)%: 28

Summer (June-Aug)%: 36

Fall (Sept-Nov)%: 18

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Distillate Oil (Diesel) | Burned | .123 | 1000 GALLONS |

| Variable | Amount | Meaning |
|---|---|---|
| HCl | 137348 | Liquid Heat Content (Btu/gallons) |
| S | 0.000067 | % Sulfur content by weight |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.0000647 | 6.47E-05 | TONs | Consensible PE Emissions were determined based on FIRE v6.25 factor of 1.05lb PE (Cond.)/1000gal fuel oil. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0000057 | 5.7E-06 | TONs | Sulfur content is calculated based on vendor supplied fuel oil data. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0271 | 0.0271 | TONs | NOx emissions were determined based on a vendor supplied factor 3.2lbNOx/MMBtu. |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000762 | 7.62E-04 | TONs | OC Emissions were determined based on an AP-42 factor of 0.09lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 12.3lb VOC/1000gallons fuel oil burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00000006 | 6E-08 | TONs | Pb emissions rates are unavailable for this source in AP-42. Pb emissions rates are based on an AP-42 factor of 0.0009 lb PB per 1000 gallons of fuel oil burned for industrial boilers. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000525 | 5.25E-04 | TONs | Filterable PE emissions rates are determined based on an AP-42 factor of 0.062 PE/MMBtu of fuel oil burned. |
| PM10 (Filt) - Primary PM10, Filterable | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000484 | 4.84E-04 | TONs | PM10: Value is based on FIRE v6.25 factor of 7.85lb PM10 (Primary PM10)/1000gal fuel oil |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Portion Only | | | | | | | | | | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000465 | 4.65E-04 | TONs | PM2.5: Value is based on FIRE v6.25 factor of 7.55lb PM2.5 (Primary PM2.5)/1000gal fuel oil |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.000762 | 7.62E-04 | TONs | VOC emissions were determined based on an AP-42 factor 0.09lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.000179 | 1.79E-04 | TONs | NH3 emissions were determined based on the FIRE v6.25 factor 2.9 lb NH3 per 1000 gallon of fuel oil (Selective, Non-Catalytic Reduction for NOx) |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0.0072 | 0.0072 | TONs | CO Emissions were determined based on an AP-42 factor of 0.85lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 0.0283928 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto calculate) | 0 | 6.42789E-04 | 0. | 3.95315E-08 | 3.95315E-08 | TONs | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 0.00126772 | 0. | 7.79648E-08 | 7.79648E-08 | TONs | |
| Acetaldehyde | 75070 | factor:OEPA (auto calculate) | 0 | 0.00346117 | 0. | 2.12862E-07 | 2.12862E-07 | TONs | |
| Acrolein | 107028 | factor:OEPA (auto calculate) | 0 | 0.0010823 | 0. | 6.65615E-08 | 6.65615E-08 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto | 0 | 1.68938E-04 | 0. | 1.03897E-08 | 1.03897E-08 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Benz[A]Anthracene | 56553 | factor:OEPA (auto calculate) | 0 | 8.54305E-05 | 0. | 5.25398E-09 | 5.25398E-09 | TONs | |
| Benzene | 71432 | factor:OEPA (auto calculate) | 0 | 0.106582 | 0. | 6.55479E-06 | 6.55479E-06 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEPA (auto calculate) | 0 | 1.76492E-05 | 0. | 1.08543E-09 | 1.08543E-09 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEPA (auto calculate) | 0 | 1.52456E-04 | 0. | 9.37604E-09 | 9.37604E-09 | TONs | |
| Benzo[G,H,I,]Perylene | 191242 | factor:OEPA (auto calculate) | 0 | 3.81827E-05 | 0. | 2.34824E-09 | 2.34824E-09 | TONs | |
| Benzo[K]Fluoranthene | 207089 | factor:OEPA (auto calculate) | 0 | 1.49709E-05 | 0. | 9.2071E-10 | 9.2071E-10 | TONs | |
| Chrysene | 218019 | factor:OEPA (auto calculate) | 0 | 2.10142E-04 | 0. | 1.29237E-08 | 1.29237E-08 | TONs | |
| Dibenzo[A,H]Anthracene | 53703 | factor:OEPA (auto calculate) | 0 | 2.37612E-05 | 0. | 1.46131E-09 | 1.46131E-09 | TONs | |
| Fluoranthene | 206440 | factor:OEPA (auto calculate) | 0 | 5.53512E-04 | 0. | 3.4041E-08 | 3.4041E-08 | TONs | |
| Fluorene | 86737 | factor:OEPA (auto calculate) | 0 | 0.00175805 | 0. | 1.0812E-07 | 1.0812E-07 | TONs | |
| Formaldehyde | 50000 | factor:OEPA (auto calculate) | 0 | 0.0108368 | 0. | 6.66463E-07 | 6.66463E-07 | TONs | |
| Indeno[1,2,3-C,D]Pyrene | 193395 | factor:OEPA (auto calculate) | 0 | 2.8431E-05 | 0. | 1.74851E-09 | 1.74851E-09 | TONs | |
| Naphthalene | 91203 | factor:OEPA (auto calculate) | 0 | 0.0178552 | 0. | 1.09809E-06 | 1.09809E-06 | TONs | |
| PAH, 16- | 40 | factor:OEPA (auto | 0 | 0.0291178 | 0. | 1.79074E-06 | 1.79074E-06 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Phenanthrene | 85018 | factor:OEPA (auto calculate) | 0 | 0.0056038 | 0. | 3.44634E-07 | 3.44634E-07 | TONs | |
| Pyrene | 129000 | factor:OEPA (auto calculate) | 0 | 5.09561E-04 | 0. | 3.1338E-08 | 3.1338E-08 | TONs | |
| Styrene | 100425 | factor:OEPA (auto calculate) | 0 | 0.00127871 | 0. | 7.86407E-08 | 7.86407E-08 | TONs | |
| Toluene | 108883 | factor:OEPA (auto calculate) | 0 | 0.0385948 | 0. | 2.37358E-06 | 2.37358E-06 | TONs | |
| Xylenes (Isomers and Mixture) | 1330207 | factor:OEPA (auto calculate) | 0 | 0.0265082 | 0. | 1.63025E-06 | 1.63025E-06 | TONs | |

# Emission Unit Summary: P002

Oct 11 2011, 15:21:23

Emissions Unit ID: P002

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0 | 0.000066 | 6.6E-05 | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0 | 0.0000057 | 5.7E-06 | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0 | 0.02742 | 0.02742 | TONs | |
| Organic Compounds | OC | X | 0 | 0.000771 | 7.71E-04 | TONs | |
| Pb - Lead | 7439921 | X | 0 | 0.00000006 | 6E-08 | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0 | 0.00053 | 5.3E-04 | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0 | 0.00049 | 4.9E-04 | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0 | 0.000471 | 4.71E-04 | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 0 | 0.000771 | 7.71E-04 | TONs | |
| Ammonia | NH3 | | 0 | 0.000181 | 1.81E-04 | TONs | |
| CO - Carbon Monoxide | CO | | 0 | 0.00729 | 0.00729 | TONs | |
| Total of Chargable Pollutants | | | | | 0.0287268 | TONS | |

---

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 4.011E-08 | 4.011E-08 | TONs |
| Acenaphthylene | 208968 | 0. | 7.91057E-08 | 7.91057E-08 | TONs |
| Acetaldehyde | 75070 | 0. | 2.15977E-07 | 2.15977E-07 | TONs |
| Acrolein | 107028 | 0. | 6.75355E-08 | 6.75355E-08 | TONs |
| Anthracene | 120127 | 0. | 1.05417E-08 | 1.05417E-08 | TONs |
| Benz[A]Anthracene | 56553 | 0. | 5.33086E-09 | 5.33086E-09 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Benzene | 71432 | 0. | 6.65072E-06 | 6.65072E-06 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 1.10131E-09 | 1.10131E-09 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 9.51325E-09 | 9.51325E-09 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 2.3826E-09 | 2.3826E-09 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 9.34184E-10 | 9.34184E-10 | TONs |
| Chrysene | 218019 | 0. | 1.31129E-08 | 1.31129E-08 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 1.4827E-09 | 1.4827E-09 | TONs |
| Fluoranthene | 206440 | 0. | 3.45391E-08 | 3.45391E-08 | TONs |
| Fluorene | 86737 | 0. | 1.09702E-07 | 1.09702E-07 | TONs |
| Formaldehyde | 50000 | 0. | 6.76216E-07 | 6.76216E-07 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 1.77409E-09 | 1.77409E-09 | TONs |
| Naphthalene | 91203 | 0. | 1.11416E-06 | 1.11416E-06 | TONs |
| PAH, 16- | 40 | 0. | 1.81695E-06 | 1.81695E-06 | TONs |
| Phenanthrene | 85018 | 0. | 3.49677E-07 | 3.49677E-07 | TONs |
| Pyrene | 129000 | 0. | 3.17966E-08 | 3.17966E-08 | TONs |
| Styrene | 100425 | 0. | 7.97915E-08 | 7.97915E-08 | TONs |
| Toluene | 108883 | 0. | 2.40832E-06 | 2.40832E-06 | TONs |
| Xylenes (Isomers and Mixture) | 1330207 | 0. | 1.65411E-06 | 1.65411E-06 | TONs |

## - Processes

### - Process & Emissions Detail

Name: P002-13

Source Classification Code (SCC): 2-02-004-01

#### - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 10

Hours Per Year: 9

Winter (Dec - Feb)%: 17

Spring (March-May)%: 30

Summer (June-Aug)%: 36

Fall (Sept-Nov)%: 17

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Distillate Oil (Diesel) | Burned | 0.1248 | 1000 GALLONS |

| Variable | Amount | Meaning |
|---|---|---|
| HCl | 137348 | Liquid Heat Content (Btu/gallons) |
| S | 0.00067 | % Sulfur content by weight |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.000066 | 6.6E-05 | TONs | Consensible PE Emissions were determined based on FIRE v6.25 factor of 1.05lb PE (Cond.)/1000gal fuel oil. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0000057 | 5.7E-06 | TONs | SO2 emissions data is based on vendor supplied sulfur content in fuel oil. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0.02742 | 0.02742 | TONs | NOx emissions were determined based on a vendor supplied factor 3.2lbNOx/MMBtu. |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000771 | 7.71E-04 | TONs | OC Emissions were determined based on an AP-42 factor of 0.09lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 12.3lb VOC/1000gallons fuel oil burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00000006 | 6E-08 | TONs | Pb emissions rates are unavailable for this source in AP-42. Pb emissions rates are based on an AP-42 factor of 0.0009 lb PB per 1000 gallons of fuel oil burned for industrial boilers. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00053 | 5.3E-04 | TONs | Filterable PE emissions rates are determined based on an AP-42 factor of 0.062 PE/MMBtu of fuel oil burned. |
| PM10 (Filt) - Primary PM10, Filterable | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.00049 | 4.9E-04 | TONs | PM10: Value is based on FIRE v6.25 factor of 7.85lb PM10 (Primary PM10)/1000gal fuel oil |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Portion Only | | | | | | | | | | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000471 | 4.71E-04 | TONs | PM2.5: Value is based on FIRE v6.25 factor of 7.55lb PM2.5 (Primary PM2.5)/1000gal fuel oil |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.000771 | 7.71E-04 | TONs | VOC emissions were determined based on an AP-42 factor 0.09lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.000181 | 1.81E-04 | TONs | NH3 emissions were determined based on the FIRE v6.25 factor 2.9 lb NH3 per 1000 gallon of fuel oil (Selective, Non-Catalytic Reduction for NOx) |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0.00729 | 0.00729 | TONs | CO Emissions were determined based on an AP-42 factor of 0.85lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 0.0287268 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto calculate) | 0 | 6.42789E-04 | 0. | 4.011E-08 | 4.011E-08 | TONs | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 0.00126772 | 0. | 7.91057E-08 | 7.91057E-08 | TONs | |
| Acetaldehyde | 75070 | factor:OEPA (auto calculate) | 0 | 0.00346117 | 0. | 2.15977E-07 | 2.15977E-07 | TONs | |
| Acrolein | 107028 | factor:OEPA (auto calculate) | 0 | 0.0010823 | 0. | 6.75355E-08 | 6.75355E-08 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto | 0 | 1.68938E-04 | 0. | 1.05417E-08 | 1.05417E-08 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Benz[A]Anthracene | 56553 | factor:OEPA (auto calculate) | 0 | 8.54305E-05 | 0. | 5.33086E-09 | 5.33086E-09 | TONs | |
| Benzene | 71432 | factor:OEPA (auto calculate) | 0 | 0.106582 | 0. | 6.65072E-06 | 6.65072E-06 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEPA (auto calculate) | 0 | 1.76492E-05 | 0. | 1.10131E-09 | 1.10131E-09 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEPA (auto calculate) | 0 | 1.52456E-04 | 0. | 9.51325E-09 | 9.51325E-09 | TONs | |
| Benzo[G,H,I,]Perylene | 191242 | factor:OEPA (auto calculate) | 0 | 3.81827E-05 | 0. | 2.3826E-09 | 2.3826E-09 | TONs | |
| Benzo[K]Fluoranthene | 207089 | factor:OEPA (auto calculate) | 0 | 1.49709E-05 | 0. | 9.34184E-10 | 9.34184E-10 | TONs | |
| Chrysene | 218019 | factor:OEPA (auto calculate) | 0 | 2.10142E-04 | 0. | 1.31129E-08 | 1.31129E-08 | TONs | |
| Dibenzo[A,H]Anthracene | 53703 | factor:OEPA (auto calculate) | 0 | 2.37612E-05 | 0. | 1.4827E-09 | 1.4827E-09 | TONs | |
| Fluoranthene | 206440 | factor:OEPA (auto calculate) | 0 | 5.53512E-04 | 0. | 3.45391E-08 | 3.45391E-08 | TONs | |
| Fluorene | 86737 | factor:OEPA (auto calculate) | 0 | 0.00175805 | 0. | 1.09702E-07 | 1.09702E-07 | TONs | |
| Formaldehyde | 50000 | factor:OEPA (auto calculate) | 0 | 0.0108368 | 0. | 6.76216E-07 | 6.76216E-07 | TONs | |
| Indeno[1,2,3-C,D]Pyrene | 193395 | factor:OEPA (auto calculate) | 0 | 2.8431E-05 | 0. | 1.77409E-09 | 1.77409E-09 | TONs | |
| Naphthalene | 91203 | factor:OEPA (auto calculate) | 0 | 0.0178552 | 0. | 1.11416E-06 | 1.11416E-06 | TONs | |
| PAH, 16- | 40 | factor:OEPA (auto | 0 | 0.0291178 | 0. | 1.81695E-06 | 1.81695E-06 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Phenanthrene | 85018 | factor:OEPA (auto calculate) | 0 | 0.0056038 | 0. | 3.49677E-07 | 3.49677E-07 | TONs | |
| Pyrene | 129000 | factor:OEPA (auto calculate) | 0 | 5.09561E-04 | 0. | 3.17966E-08 | 3.17966E-08 | TONs | |
| Styrene | 100425 | factor:OEPA (auto calculate) | 0 | 0.00127871 | 0. | 7.97915E-08 | 7.97915E-08 | TONs | |
| Toluene | 108883 | factor:OEPA (auto calculate) | 0 | 0.0385948 | 0. | 2.40832E-06 | 2.40832E-06 | TONs | |
| Xylenes (Isomers and Mixture) | 1330207 | factor:OEPA (auto calculate) | 0 | 0.0265082 | 0. | 1.65411E-06 | 1.65411E-06 | TONs | |

# Emission Unit Summary: P003

Oct 11 2011, 15:21:23

Emissions Unit ID: P003

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0 | 0.0000066 | 6.6E-06 | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0 | 0.0000058 | 5.8E-06 | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0 | 0.0274 | 0.0274 | TONs | |
| Organic Compounds | OC | X | 0 | 0.000771 | 7.71E-04 | TONs | |
| Pb - Lead | 7439921 | X | 0 | 0.00000006 | 6E-08 | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0 | 0.000531 | 5.31E-04 | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0 | 0.00049 | 4.9E-04 | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0 | 0.000471 | 4.71E-04 | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 0 | 0.000771 | 7.71E-04 | TONs | |
| Ammonia | NH3 | | 0 | 0.000181 | 1.81E-04 | TONs | |
| CO - Carbon Monoxide | CO | | 0 | 0.00728 | 0.00728 | TONs | |
| Total of Chargable Pollutants | | | | | 0.0287079 | TONS | |

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 4.011E-08 | 4.011E-08 | TONs |
| Acenaphthylene | 208968 | 0. | 7.91057E-08 | 7.91057E-08 | TONs |
| Acetaldehyde | 75070 | 0. | 2.15977E-07 | 2.15977E-07 | TONs |
| Acrolein | 107028 | 0. | 6.75355E-08 | 6.75355E-08 | TONs |
| Anthracene | 120127 | 0. | 1.05417E-08 | 1.05417E-08 | TONs |
| Benz[A]Anthracene | 56553 | 0. | 5.33086E-09 | 5.33086E-09 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Benzene | 71432 | 0. | 6.65072E-06 | 6.65072E-06 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 1.10131E-09 | 1.10131E-09 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 9.51325E-09 | 9.51325E-09 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 2.3826E-09 | 2.3826E-09 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 9.34184E-10 | 9.34184E-10 | TONs |
| Chrysene | 218019 | 0. | 1.31129E-08 | 1.31129E-08 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 1.4827E-09 | 1.4827E-09 | TONs |
| Fluoranthene | 206440 | 0. | 3.45391E-08 | 3.45391E-08 | TONs |
| Fluorene | 86737 | 0. | 1.09702E-07 | 1.09702E-07 | TONs |
| Formaldehyde | 50000 | 0. | 6.76216E-07 | 6.76216E-07 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 1.77409E-09 | 1.77409E-09 | TONs |
| Naphthalene | 91203 | 0. | 1.11416E-06 | 1.11416E-06 | TONs |
| PAH, 16- | 40 | 0. | 1.81695E-06 | 1.81695E-06 | TONs |
| Phenanthrene | 85018 | 0. | 3.49677E-07 | 3.49677E-07 | TONs |
| Pyrene | 129000 | 0. | 3.17966E-08 | 3.17966E-08 | TONs |
| Styrene | 100425 | 0. | 7.97915E-08 | 7.97915E-08 | TONs |
| Toluene | 108883 | 0. | 2.40832E-06 | 2.40832E-06 | TONs |
| Xylenes (Isomers and Mixture) | 1330207 | 0. | 1.65411E-06 | 1.65411E-06 | TONs |

## - Processes

### - Process & Emissions Detail

Name: P003-16

Source Classification Code (SCC): 2-02-004-01

#### - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 10

Hours Per Year: 9

Winter (Dec - Feb)%: 17

Spring (March-May)%: 30

Summer (June-Aug)%: 36

Fall (Sept-Nov)%: 17

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Distillate Oil (Diesel) | Burned | 0.1248 | 1000 GALLONS |

| Variable | Amount | Meaning |
|---|---|---|
| HCl | 137348 | Liquid Heat Content (Btu/gallons) |
| S | 0.00067 | % Sulfur content by weight |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.0000066 | 6.6E-06 | TONs | Consensible PE Emissions were determined based on FIRE v6.25 factor of 1.05lb PE (Cond.)/1000gal fuel oil. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0000058 | 5.8E-06 | TONs | SO2 emissions were calculated based on fuel oil data supplied by the diesel vendor. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0274 | 0.0274 | TONs | NOx emissions were determined based on a vendor supplied factor 3.2lbNOx/MMBtu. |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000771 | 7.71E-04 | TONs | OC Emissions were determined based on an AP-42 factor of 0.09lbVOC/MMBtu. The FIRE Database v6.25 factor for OC emissions is 12.3lb VOC/1000gallons fuel oil burned, which is less than the VOC emissions specified in the Title V permit and vendor guarantee. OC was assumed to be all VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00000006 | 6E-08 | TONs | Pb emissions rates are unavailable for this source in AP-42. Pb emissions rates are based on an AP-42 factor of 0.0009 lb PB per 1000 gallons of fuel oil burned for industrial boilers. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.000531 | 5.31E-04 | TONs | Filterable PE emissions rates are determined based on an AP-42 factor of 0.062 PE/MMBtu of fuel oil burned. |
| PM10 (Filt) - Primary PM10, Filterable | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.00049 | 4.9E-04 | TONs | PM10: Value is based on FIRE v6.25 factor of 7.85lb PM10 (Primary PM10)/1000gal fuel oil |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Portion Only | | | | | | | | | | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.000471 | 4.71E-04 | TONs | PM2.5: Value is based on FIRE v6.25 factor of 7.55lb PM2.5 (Primary PM2.5)/1000gal fuel oil |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.000771 | 7.71E-04 | TONs | VOC emissions were determined based on an AP-42 factor 0.09lbVOC/MMBtu. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.000181 | 1.81E-04 | TONs | NH3 emissions were determined based on the FIRE v6.25 factor 2.9 lb NH3 per 1000 gallon of fuel oil (Selective, Non-Catalytic Reduction for NOx¬) |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0.00728 | 0.00728 | TONs | CO Emissions were determined based on an AP-42 factor of 0.85lbCO/MMBtu. |
| Total of Chargable Pollutants | | | | | | | | 0.0287079 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto calculate) | 0 | 6.42789E-04 | 0. | 4.011E-08 | 4.011E-08 | TONs | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 0.00126772 | 0. | 7.91057E-08 | 7.91057E-08 | TONs | |
| Acetaldehyde | 75070 | factor:OEPA (auto calculate) | 0 | 0.00346117 | 0. | 2.15977E-07 | 2.15977E-07 | TONs | |
| Acrolein | 107028 | factor:OEPA (auto calculate) | 0 | 0.0010823 | 0. | 6.75355E-08 | 6.75355E-08 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto | 0 | 1.68938E-04 | 0. | 1.05417E-08 | 1.05417E-08 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Benz[A]Anthracene | 56553 | factor:OEPA (auto calculate) | 0 | 8.54305E-05 | 0. | 5.33086E-09 | 5.33086E-09 | TONs | |
| Benzene | 71432 | factor:OEPA (auto calculate) | 0 | 0.106582 | 0. | 6.65072E-06 | 6.65072E-06 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEPA (auto calculate) | 0 | 1.76492E-05 | 0. | 1.10131E-09 | 1.10131E-09 | TONs | |
| Benzo[B]Fluoranthene | 205992 | factor:OEPA (auto calculate) | 0 | 1.52456E-04 | 0. | 9.51325E-09 | 9.51325E-09 | TONs | |
| Benzo[G,H,I,]Perylene | 191242 | factor:OEPA (auto calculate) | 0 | 3.81827E-05 | 0. | 2.3826E-09 | 2.3826E-09 | TONs | |
| Benzo[K]Fluoranthene | 207089 | factor:OEPA (auto calculate) | 0 | 1.49709E-05 | 0. | 9.34184E-10 | 9.34184E-10 | TONs | |
| Chrysene | 218019 | factor:OEPA (auto calculate) | 0 | 2.10142E-04 | 0. | 1.31129E-08 | 1.31129E-08 | TONs | |
| Dibenzo[A,H]Anthracene | 53703 | factor:OEPA (auto calculate) | 0 | 2.37612E-05 | 0. | 1.4827E-09 | 1.4827E-09 | TONs | |
| Fluoranthene | 206440 | factor:OEPA (auto calculate) | 0 | 5.53512E-04 | 0. | 3.45391E-08 | 3.45391E-08 | TONs | |
| Fluorene | 86737 | factor:OEPA (auto calculate) | 0 | 0.00175805 | 0. | 1.09702E-07 | 1.09702E-07 | TONs | |
| Formaldehyde | 50000 | factor:OEPA (auto calculate) | 0 | 0.0108368 | 0. | 6.76216E-07 | 6.76216E-07 | TONs | |
| Indeno[1,2,3-C,D]Pyrene | 193395 | factor:OEPA (auto calculate) | 0 | 2.8431E-05 | 0. | 1.77409E-09 | 1.77409E-09 | TONs | |
| Naphthalene | 91203 | factor:OEPA (auto calculate) | 0 | 0.0178552 | 0. | 1.11416E-06 | 1.11416E-06 | TONs | |
| PAH, 16- | 40 | factor:OEPA (auto | 0 | 0.0291178 | 0. | 1.81695E-06 | 1.81695E-06 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | calculate) | | | | | | | |
| Phenanthrene | 85018 | factor:OEPA (auto calculate) | 0 | 0.0056038 | 0. | 3.49677E-07 | 3.49677E-07 | TONs | |
| Pyrene | 129000 | factor:OEPA (auto calculate) | 0 | 5.09561E-04 | 0. | 3.17966E-08 | 3.17966E-08 | TONs | |
| Styrene | 100425 | factor:OEPA (auto calculate) | 0 | 0.00127871 | 0. | 7.97915E-08 | 7.97915E-08 | TONs | |
| Toluene | 108883 | factor:OEPA (auto calculate) | 0 | 0.0385948 | 0. | 2.40832E-06 | 2.40832E-06 | TONs | |
| Xylenes (Isomers and Mixture) | 1330207 | factor:OEPA (auto calculate) | 0 | 0.0265082 | 0. | 1.65411E-06 | 1.65411E-06 | TONs | |

# Emission Unit Summary: P004

Oct 11 2011, 15:21:23

Emissions Unit ID: P004

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0 | 0.00578 | 0.00578 | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0 | 0.0000126 | 1.26E-05 | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0 | 0.0821 | 0.0821 | TONs | |
| Organic Compounds | OC | X | 0 | 0.0067 | 0.0067 | TONs | |
| Pb - Lead | 7439921 | X | 0 | 0.00000012 | 1.2E-07 | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0 | 0.00578 | 0.00578 | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0 | 0.00578 | 0.00578 | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0 | 0.00578 | 0.00578 | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 0 | 0.0067 | 0.0067 | TONs | |
| Ammonia | NH3 | | 0 | 0.00019 | 1.9E-04 | TONs | |
| CO - Carbon Monoxide | CO | | 0 | 0.0177 | 0.0177 | TONs | |
| Total of Chargable Pollutants | | | | | 0.0945927 | TONS | |

---

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

| Pollutant | Code | Fugitive Amount | Stack Amount | Total | Units |
|---|---|---|---|---|---|
| Acenaphthene | 83329 | 0. | 1.32623E-08 | 1.32623E-08 | TONs |
| Acenaphthylene | 208968 | 0. | 4.72586E-08 | 4.72586E-08 | TONs |
| Acetaldehyde | 75070 | 0. | 1.43271E-05 | 1.43271E-05 | TONs |
| Acrolein | 107028 | 0. | 8.6392E-07 | 8.6392E-07 | TONs |
| Anthracene | 120127 | 0. | 3.49304E-08 | 3.49304E-08 | TONs |
| Benz[A]Anthracene | 56553 | 0. | 3.13813E-08 | 3.13813E-08 | TONs |

| | | | | | |
|---|---|---|---|---|---|
| Benzene | 71432 | 0. | 1.74279E-05 | 1.74279E-05 | TONs |
| Benzo[A]Pyrene | 50328 | 0. | 1.75586E-09 | 1.75586E-09 | TONs |
| Benzo[B]Fluoranthene | 205992 | 0. | 9.2556E-10 | 9.2556E-10 | TONs |
| Benzo[G,H,I,]Perylene | 191242 | 0. | 4.5671E-09 | 4.5671E-09 | TONs |
| Benzo[K]Fluoranthene | 207089 | 0. | 1.44765E-09 | 1.44765E-09 | TONs |
| Butadiene, 1,3- | 106990 | 0. | 3.6518E-07 | 3.6518E-07 | TONs |
| Chrysene | 218019 | 0. | 6.5938E-09 | 6.5938E-09 | TONs |
| Dibenzo[A,H]Anthracene | 53703 | 0. | 5.44502E-09 | 5.44502E-09 | TONs |
| Ethyl Benzene | 100414 | 0. | 4.1752E-07 | 4.1752E-07 | TONs |
| Fluoranthene | 206440 | 0. | 1.4215E-07 | 1.4215E-07 | TONs |
| Fluorene | 86737 | 0. | 5.45436E-07 | 5.45436E-07 | TONs |
| Formaldehyde | 50000 | 0. | 2.20417E-05 | 2.20417E-05 | TONs |
| Indeno[1,2,3-C,D]Pyrene | 193395 | 0. | 3.50238E-09 | 3.50238E-09 | TONs |
| Mercury, as HG; Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | 7439976 | 0. | 5.62995E-09 | 5.62995E-09 | TONs |
| Naphthalene | 91203 | 0. | 1.58401E-06 | 1.58401E-06 | TONs |
| PAH, 16- | 40 | 0. | 3.13813E-06 | 3.13813E-06 | TONs |
| Phenanthrene | 85018 | 0. | 5.49172E-07 | 5.49172E-07 | TONs |
| Pyrene | 129000 | 0. | 8.92871E-08 | 8.92871E-08 | TONs |
| Toluene | 108883 | 0. | 7.63984E-06 | 7.63984E-06 | TONs |
| Xylenes (Isomers and Mixture) | 1330207 | 0. | 5.32361E-06 | 5.32361E-06 | TONs |

- **Processes**
  - **Process & Emissions Detail**

Name: P004-19

Source Classification Code (SCC): 2-02-001-02

- **Material Information, Annual Average Operating Schedule & Throughput Percent**

Schedule Trade Secret:

Hours Per Day: 1

Days Per Week: 1

Weeks Per Year: 52

Winter (Dec - Feb)%: 16

Spring (March-May)%: 20

Summer (June-Aug)%: 34

Hours Per Year: 39 Fall (Sept-Nov)%: 30

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Distillate Oil (Diesel) | Burned | 0.272 | 1000 GALLONS |

| Variable | Amount | Meaning |
|---|---|---|
| HCl | 137348 | Liquid Heat Content (Btu/gallons) |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0.00578 | 0.00578 | TONs | No FIRE Database v6.25 Emissions factor was located. All PE is assumed to be equal to filterable PM (42.5 lb per 1000 gallons of fuel oil burned) for the purposes of this calculation. |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0000126 | 1.26E-05 | TONs | SO2 generation based on fuel oil sulfur content supplied by vendor. |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0821 | 0.0821 | TONs | NOx emissions were determined based on an FIRE Database v6.25 factor of 604lbNOx/1000 gallons fuel. |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0 | 0.0067 | 0.0067 | TONs | OC emissions data is based on a FIRE Database v6.25 factor of 49.3 lb OC per 1000 gallons of fuel oil. All OC emissions are assumed to be VOC. |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00000012 | 1.2E-07 | TONs | Pb emissions rates are unavailable for this source in AP-42. Pb emissions rates are based on an AP-42 factor of 0.0009 lb PB per 1000 gallons of fuel oil burned for industrial boilers. |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0.00578 | 0.00578 | TONs | Filterable PE emissions data is based on a FIRE Database v6.25 factor of 42.5 lb Filterable PE per 1000 gallons of fuel oil. |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0.00578 | 0.00578 | TONs | PM-10 emissions data is based on a FIRE Database v6.25 factor of 42.5 lb PM-10 per 1000 gallons of fuel oil. |
| PM2.5 (FILT) - | PM25- | | emissions: | | | 0 | 0.00578 | 0.00578 | TONs | PM2.5 emissions data is based on a FIRE Database v6.25 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Primary PM2.5, Filterable Portion Only | FIL | | ENG. JUDGEMENT | | | | | | | factor of 42.5 lb PM2.5 per 1000 gallons of fuel oil. |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0 | 0.0067 | 0.0067 | TONs | VOC emissions data is based on a FIRE Database v6.25 factor of 49.3 lb VOC per 1000 gallons of fuel oil. |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0.00019 | 1.9E-04 | TONs | NH3 emissions data is based on a FIRE Database v6.25 factor of 2.9 lb NH3 per 1000 gallons of fuel oil. |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0.0177 | 0.0177 | TONs | CO emissions data is based on a FIRE Database v6.25 factor of 130 lb CO per 1000 gallons of fuel oil. |
| Total of Chargable Pollutants | | | | | | | | 0.0945927 | TONS | |

-

The following Hazardous Air Pollutant information was developed using Ohio EPA-generated hazardous air pollutant emission calculations.  The values may be provided to USEPA by Ohio EPA as part of Ohio EPA's federal grant commitments. You may modify these Ohio EPA-generated hazardous air pollutant emission calculations, at the process level, if you have more accurate information. There is no certification of these values as part of the emissions report submission.

- **Process Emissions**

| Pollutant | Code | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 83329 | factor:OEPA (auto calculate) | 0 | 9.75171E-05 | 0. | 1.32623E-08 | 1.32623E-08 | TONs | |
| Acenaphthylene | 208968 | factor:OEPA (auto calculate) | 0 | 3.4749E-04 | 0. | 4.72586E-08 | 4.72586E-08 | TONs | |
| Acetaldehyde | 75070 | factor:OEPA (auto calculate) | 0 | 0.105346 | 0. | 1.43271E-05 | 1.43271E-05 | TONs | |
| Acrolein | 107028 | factor:OEPA (auto calculate) | 0 | 0.00635235 | 0. | 8.6392E-07 | 8.6392E-07 | TONs | |
| Anthracene | 120127 | factor:OEPA (auto calculate) | 0 | 2.56841E-04 | 0. | 3.49304E-08 | 3.49304E-08 | TONs | |
| Benz[A]Anthrace | 56553 | factor:OEP | 0 | 2.30745E | 0. | 3.13813E-08 | 3.13813E-08 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ne | | A (auto calculate) | | -04 | | | | | |
| Benzene | 71432 | factor:OEP A (auto calculate) | 0 | 0.128146 | 0. | 1.74279E-05 | 1.74279E-05 | TONs | |
| Benzo[A]Pyrene | 50328 | factor:OEP A (auto calculate) | 0 | 1.29107E -05 | 0. | 1.75586E-09 | 1.75586E-09 | TONs | |
| Benzo[B]Fluoran thene | 205992 | factor:OEP A (auto calculate) | 0 | 6.80559E -06 | 0. | 9.2556E-10 | 9.2556E-10 | TONs | |
| Benzo[G,H,I,]Pe rylene | 191242 | factor:OEP A (auto calculate) | 0 | 3.35816E -05 | 0. | 4.5671E-09 | 4.5671E-09 | TONs | |
| Benzo[K]Fluoran thene | 207089 | factor:OEP A (auto calculate) | 0 | 1.06445E -05 | 0. | 1.44765E-09 | 1.44765E-09 | TONs | |
| Butadiene, 1,3- | 106990 | factor:OEP A (auto calculate) | 0 | 0.002685 15 | 0. | 3.6518E-07 | 3.6518E-07 | TONs | |
| Chrysene | 218019 | factor:OEP A (auto calculate) | 0 | 4.84838E -05 | 0. | 6.5938E-09 | 6.5938E-09 | TONs | |
| Dibenzo[A,H]Ant hracene | 53703 | factor:OEP A (auto calculate) | 0 | 4.00369E -05 | 0. | 5.44502E-09 | 5.44502E-09 | TONs | |
| Ethyl Benzene | 100414 | factor:OEP A (auto calculate) | 0 | 0.00307 | 0. | 4.1752E-07 | 4.1752E-07 | TONs | |
| Fluoranthene | 206440 | factor:OEP A (auto calculate) | 0 | 0.001045 22 | 0. | 1.4215E-07 | 1.4215E-07 | TONs | |
| Fluorene | 86737 | factor:OEP A (auto calculate) | 0 | 0.004010 56 | 0. | 5.45436E-07 | 5.45436E-07 | TONs | |
| Formaldehyde | 50000 | factor:OEP A (auto calculate) | 0 | 0.162071 | 0. | 2.20417E-05 | 2.20417E-05 | TONs | |
| Indeno[1,2,3-C,D]Pyrene | 193395 | factor:OEP A (auto calculate) | 0 | 2.57528E -05 | 0. | 3.50238E-09 | 3.50238E-09 | TONs | |
| Mercury, as HG; | 7439976 | factor:OEP | 0 | 4.13967E | 0. | 5.62995E-09 | 5.62995E-09 | TONs | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Alkyl & Aryl CMPNDS; Elemental & Inorganic Forms | | A (auto calculate) | | -05 | | | | | |
| Naphthalene | 91203 | factor:OEP A (auto calculate) | 0 | 0.0116471 | 0. | 1.58401E-06 | 1.58401E-06 | TONs | |
| PAH, 16- | 40 | factor:OEP A (auto calculate) | 0 | 0.0230745 | 0. | 3.13813E-06 | 3.13813E-06 | TONs | |
| Phenanthrene | 85018 | factor:OEP A (auto calculate) | 0 | 0.00403803 | 0. | 5.49172E-07 | 5.49172E-07 | TONs | |
| Pyrene | 129000 | factor:OEP A (auto calculate) | 0 | 6.56523E-04 | 0. | 8.92871E-08 | 8.92871E-08 | TONs | |
| Toluene | 108883 | factor:OEP A (auto calculate) | 0 | 0.0561753 | 0. | 7.63984E-06 | 7.63984E-06 | TONs | |
| Xylenes (Isomers and Mixture) | 1330207 | factor:OEP A (auto calculate) | 0 | 0.0391442 | 0. | 5.32361E-06 | 5.32361E-06 | TONs | |

# Emission Unit Summary: T001

Oct 11 2011, 15:21:23

Emissions Unit ID: T001

Detailed Reporting

DAPC Description:

## - Unit Emissions

| Pollutant | Code | $ | Fugitive Amount | Stack Amount | Total | Units | QA+ |
|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | 0. | 0. | 0. | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | 0. | 0. | 0. | TONs | |
| NOx - Nitrogen Oxides | NOX | X | 0. | 0. | 0. | TONs | |
| Organic Compounds | OC | X | 20.4345 | 0. | 20.4345 | LBs | |
| Pb - Lead | 7439921 | X | 0. | 0. | 0. | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | 0. | 0. | 0. | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | 0. | 0. | 0. | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | 0. | 0. | 0. | TONs | |
| VOC - Volatile Organic Compounds | VOC | | 20.4345 | 0. | 20.4345 | LBs | |
| Ammonia | NH3 | | 0. | 0. | 0. | TONs | |
| CO - Carbon Monoxide | CO | | 0. | 0. | 0. | TONs | |
| Total of Chargable Pollutants | | | | | 0.0102172 | TONS | |

## - Processes

### - Process & Emissions Detail

Name: T001-20

Source Classification Code (SCC): 4-04-003-01

#### - Material Information, Annual Average Operating Schedule & Throughput Percent

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 8760

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Liquid | Storage Capacity | 1.832 | 1000 GALLON-YEARS |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 20.4 | 0 | 20.4 | LBs | |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 20.4 | 0 | 20.4 | LBs | |
| | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| Total of Chargable Pollutants | | | | | | | | 0.0102 | TONS | |

- **Process & Emissions Detail**

Name: T001-21

Source Classification Code (SCC): 4-04-003-02

- **Material Information, Annual Average Operating Schedule & Throughput Percent**

Schedule Trade Secret:

Hours Per Day: 24

Days Per Week: 7

Weeks Per Year: 52

Hours Per Year: 8760

Winter (Dec - Feb)%: 25

Spring (March-May)%: 25

Summer (June-Aug)%: 25

Fall (Sept-Nov)%: 25

| Material | Material Action | Throughput | X Units |
|---|---|---|---|
| Liquid | Throughput | 1.832 | 1000 GALLONS |

- **Process Emissions**

| Pollutant | Code | $ | Method Used | Hours UnCont. | UnCont. Factor (LBS/X) | Fugitive Amount | Stack Amount | Total | Units | Explanation |
|---|---|---|---|---|---|---|---|---|---|---|
| PE (Cond) - Primary PM Condensible Portion Only (All Less than 1 Micron) | PM-CON | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| SO2 - Sulfur Dioxide | SO2 | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NOx - Nitrogen Oxides | NOX | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| Organic Compounds | OC | X | emissions: ENG. JUDGEMENT | | | 0.0345 | 0 | 0.0345 | LBs | |
| Pb - Lead | 7439921 | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| PE (Filt) - Primary PM, Filterable Portion Only | PM-FIL | X | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| PM10 (Filt) - Primary PM10, Filterable Portion Only | PM10-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only | PM25-FIL | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| VOC - Volatile Organic Compounds | VOC | | emissions: ENG. JUDGEMENT | | | 0.0345 | 0 | 0.0345 | LBs | |
| Ammonia | NH3 | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| CO - Carbon Monoxide | CO | | emissions: ENG. JUDGEMENT | | | 0 | 0 | 0. | TONs | |
| Total of Chargable Pollutants | | | | | | | | 1.725E-05 | TONS | |