

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: **Number:** 0

Description of Modifications: Installation of temporary portable hot oil heater to be used while making repairs for existing heater (PCP040002, E2002). Repairs will be conducted under permit exemption of N.J.A.C. 7:27-8.2(d)16 for construction, repair, or maintenance (CRM) activities. However, Ergon has been advised that there may be delays in receiving parts necessary to complete the repairs. Therefore, per guidance from the Department, this application is being submitted in case the repairs take longer than the allowed 90 days if there are delays in receiving necessary parts to complete the repairs.

The hot oil heater is a natural gas-fired unit, with a rated heat input of 10.5 MMBtu/hour. The unit was constructed in 1994 and subject to the NSPS Subpart Dc requirements.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): ERGON ASPHALT PARTNERS LP

Facility ID (AIMS): 50519

Street ERGON ASPHALT PARTNERS LP
Address: KING ST AND JERSEY AVE
GLOUCESTER CITY, NJ 08030

| | |
|---------------------------------|-----------------------|
| State Plane Coordinates: | |
| X-Coordinate: | 1,869,350 |
| Y-Coordinate: | 386,350 |
| Units: | UTM Zone 18N - Meter: |
| Datum: | NAD83 |
| Source Org.: | Submittal Document |
| Source Type: | Other/Unknown |

Mailing ERGON ASPHALT PARTNERS LP
Address: PO BOX 31
GLOUCESTER CITY, NJ 08030

County: Camden
Location Facility located on the Delaware River
Description: approximately 1/2 mile south of the Walt Whitman Bridge.

| | |
|-----------------------|--------|
| Industry: | |
| Primary SIC: | 2951 |
| Secondary SIC: | 5171 |
| NAICS: | 324121 |

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: ERGON ASPHAL PARTNERS LP

Org. Type: LP

Name: KATELAN CRAIN

NJ EIN: 00261600597

Title: ENV ENGINEER

Phone: (601) 933-3122 x

Mailing Address: ERGON ASPHAL PARTNERS LP

Fax: () - x

PO BOX 1639

Other: () - x

JACKSON, MS 39215

Type:

Email: KATELAN.CRAIN@ERGON.COM

Contact Type: Emission Statements

Organization: ERGON ASPHALT PARTNERS LP

Org. Type: LP

Name: Ronald Shiver

NJ EIN: 00261600597

Title: EHS Compliance Manager

Phone: (267) 460-8839 x

Mailing Address: ERGON ASPHALT PARTNERS LP

Fax: (856) 456-3331 x

P.O. Box 31

Other: (512) 751-0969 x

Gloucester City, NJ 08030

Type: Mobile

Email: Ron.Shiver@ergon.com

Contact Type: Fees/Billing Contact

Organization: ERGON ASPHAL PARTNERS LP

Org. Type: LP

Name: KATELAN CRAIN

NJ EIN: 00261600597

Title: ENV ENGINEER

Phone: (601) 933-3122 x

Mailing Address: ERGON ASPHAL PARTNERS LP

Fax: () - x

PO BOX 1639

Other: () - x

JACKSON, MS 39215

Type:

Email: KATELAN.CRAIN@ERGON.COM

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: On-Site Manager

Organization: ERGON ASPHALT PARTNERS LP

Org. Type: LP

Name: Kevin Hanson

NJ EIN: 00261600597

Title: Facility Manager

Phone: (856) 456-6673 x

Mailing Address: ERGON ASPHALT PARTNERS LP

Fax: (856) 456-3331 x

P.O. Box 31

Other: (609) 504-3640 x

Gloucester City, NJ 08030

Type: Mobile

Email: kevin.hanson@ergon.com

Contact Type: Owner (Current Primary)

Organization: ERGON ASPHALT PARTNERS LP

Org. Type: LP

Name: Kevin Hanson

NJ EIN: 00261600597

Title: Facility Manager

Phone: (856) 456-6673 x

Mailing Address: ERGON ASPHALT PARTNERS LP

Fax: (856) 456-3331 x

P.O. Box 31

Other: (609) 504-3640 x

Gloucester City, NJ 08030

Type: Mobile

Email: kevin.hanson@ergon.com

Contact Type: Responsible Official

Organization: ERGON ASPHAL PARTNERS LP

Org. Type: LP

Name: RAMON L CALLAHAN JR

NJ EIN: 00261600597

Title: VP OF EHS

Phone: (913) 744-4919 x

Mailing Address: ERGON ASPHAL PARTNERS LP

Fax: () - x

PO BOX 1639

Other: () - x

JACKSON, MS 39215

Type:

Email: RAMON.CALLAHAN@ERGON.COM

**New Jersey Department of Environmental Protection
Equipment Inventory**

| Equip. NJID | Facility's Designation | Equipment Description | Equipment Type | Certificate Number | Install Date | Grand-Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|--------------------|-------------------------------|------------------------------|-----------------------------------|---------------------------|---------------------|-----------------------|-------------------------------|----------------------|
| E102006 | Temp Heater | Temporary Hot Oil Heater | Fuel Combustion Equipment (Other) | | 8/15/2023 | | | |

New Jersey Department of Environmental Protection
Emission Points Inventory

| PT NJID | Facility's Designation | Description | Config. | Equiv. Diam. (in.) | Height (ft.) | Dist. to Prop. Line (ft) | Exhaust Temp. (deg. F) | | | Exhaust Vol. (acfm) | | | Discharge Direction | PT Set ID |
|----------|------------------------|--------------------------|---------|--------------------|--------------|--------------------------|------------------------|-------|-------|---------------------|------|---------|---------------------|-----------|
| | | | | | | | Avg. | Min. | Max. | Avg. | Min. | Max. | | |
| PT102006 | PT102006 | Temporary Heater Exhaust | Round | 18 | 25 | 250 | 350.0 | 200.0 | 400.0 | 3,500.0 | 0.0 | 4,000.0 | Up | |

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 102 Tem Heater Temporary Hot Oil Heater

| UOS NJID | Facility's Designation | UOS Description | Operation Type | Signif. Equip. | Control Device(s) | Emission Point(s) | SCC(s) | Annual Oper. Hours | | VOC Range | Flow (acfm) | | Temp. (deg F) | |
|-------------|---------------------------|--------------------------|--------------------------|-------------------|----------------------|----------------------|-------------|-----------------------|---------|--------------|----------------|---------|------------------|-------|
| | | | | | | | | Min. | Max. | | Min. | Max. | Min. | Max. |
| OS1 | Temp Heater | Temporary Hot Oil Heater | Normal - Steady State | E102006 | | PT102006 | 3-06-001-05 | 0.0 | 8,760.0 | | 0.0 | 4,000.0 | 200.0 | 400.0 |

**New Jersey Department of Environmental Protection
Potential to Emit**

Subject Item: U102 Tem Heater

Operating Scenario: OS0 Summary

Step:

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---------------------------------|--------------------|---------------------------|--------------------------|-----------------|---------|----------------|
| CO | | | | | tons/yr | No |
| HAPs (Total) | | | | | tons/yr | No |
| NOx (Total) | | | | | tons/yr | No |
| Pb | | | | | tons/yr | No |
| PM-10 (Total) | | | | | tons/yr | No |
| SO2 | | | | | tons/yr | No |
| TSP | | | | | tons/yr | No |
| VOC (Total) | | | | | tons/yr | No |

Subject Item: U102 Tem Heater

Operating Scenario: OS1

Step:

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|---------------------------------|--------------------|---------------------------|--------------------------|-----------------|-------|----------------|
| Arsenic compounds | | 0.00000206 | 0.00000206 | 0.00000206 | lb/hr | No |
| Cadmium compounds | | 0.00001130 | 0.00001130 | 0.00001130 | lb/hr | No |
| Cobalt compounds | | 0.00000087 | 0.00000087 | 0.00000087 | lb/hr | No |
| CO | | 0.86000000 | 0.86000000 | 0.86000000 | lb/hr | No |
| Formaldehyde | | 0.00077200 | 0.00077200 | 0.00077200 | lb/hr | No |
| HAPs (Total) | | 0.00078600 | 0.00078600 | 0.00078600 | lb/hr | No |
| NOx (Total) | | 1.03000000 | 1.03000000 | 1.03000000 | lb/hr | No |
| Pb | | D | D | D | lb/hr | No |
| PM-10 (Total) | | 0.08000000 | 0.08000000 | 0.08000000 | lb/hr | No |
| PM-2.5 (Total) | | 0.08000000 | 0.08000000 | 0.08000000 | lb/hr | No |

**New Jersey Department of Environmental Protection
Potential to Emit**

Subject Item: U102 Tem Heater

Operating Scenario: OS1

Step:

| Air Contaminant Category (HAPS) | Fugitive Emissions | Emissions Before Controls | Emissions After Controls | Total Emissions | Units | Alt. Em. Limit |
|------------------------------------|-----------------------|------------------------------|-----------------------------|--------------------|---------|-------------------|
| SO2 | | D | D | D | lb/hr | No |
| TSP | | 0.08000000 | 0.08000000 | 0.08000000 | lb/hr | No |
| VOC (Total) | | 0.06000000 | 0.06000000 | 0.06000000 | lb/hr | No |
| Arsenic compounds | | 0.01720000 | 0.01720000 | 0.01720000 | lb/yr | No |
| Cadmium compounds | | 0.09350000 | 0.09350000 | 0.09350000 | lb/yr | No |
| Cobalt compounds | | 0.00714000 | 0.00714000 | 0.00714000 | lb/yr | No |
| CO | | 3.57000000 | 3.57000000 | 3.57000000 | tons/yr | No |
| Formaldehyde | | 6.38000000 | 6.38000000 | 6.38000000 | lb/yr | No |
| HAPs (Total) | | 6.49000000 | 6.49000000 | 6.49000000 | lb/yr | No |
| NOx (Total) | | 4.25000000 | 4.25000000 | 4.25000000 | tons/yr | No |
| Pb | | D | D | D | lb/yr | No |
| PM-10 (Total) | | 0.32000000 | 0.32000000 | 0.32000000 | tons/yr | No |
| PM-2.5 (Total) | | 0.32000000 | 0.32000000 | 0.32000000 | tons/yr | No |
| SO2 | | D | D | D | tons/yr | No |
| TSP | | 0.32000000 | 0.32000000 | 0.32000000 | tons/yr | No |
| VOC (Total) | | 0.23000000 | 0.23000000 | 0.23000000 | tons/yr | No |

000000 E102006 (Fuel Combustion Equipment (Other))
Print Date: 9/11/2023

| | |
|--|--|
| Make: | |
| Manufacturer: | Enerquip Thermal Solutions |
| Model: | AHE-650 |
| Maximum rated Gross Heat Input (MMBtu/hr-HHV): | 10.50 |
| Type of Heat Exchange: | Indirect |
| Equipment Type Description: | Hot oil heater for heating asphalt cement storage tanks. |

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes
 No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Yes
 No

Comments: Temporary unit while repairs conducted at facility on existing unit. Note unit previously permitted at New Mexico facility, permitted at 8.4 MMBtu/hour heat input. Per manufacturer's rep, unit was derated for 5,000' altitude. Unit rated for 10.5 MMBtu at sea leve.

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

50519 ERGON ASPHALT PARTNERS LP PCP000000 U102 OS1 (Fuel Information Table)

Print Date: 9/11/2023

| | |
|---|---|
| Is this fuel a blend? | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Fuel Category: | Commercial |
| Fuel Type: | Natural gas |
| Description (if other): | |
| Amount of Sulfur in Fuel (%): | |
| Amount of Ash in Fuel (%): | |
| Fuel Heating Value: | 1,020.00 |
| Units: | BTU/scf |
| Estimated Maximum Amount of Fuel Burned Annually: | 90.20 |
| Units: | MMft ³ /yr |
| Estimated Actual Amount of Fuel Burned Annually: | |
| Units: | |
| Amount of Oxygen in Flue Gas (%): | |
| Amount of Moisture in Flue Gas (%): | |
| Comments: | |

August 11, 2023

NJDEP - Air Quality Permitting and Planning
Bureau of Stationary Sources
Preconstruction Permits Section
401 E. State Street, 2nd floor, P.O. Box 420,
Mail Code 401-02
Trenton, NJ 08625-0420

Re: Subchapter 8 Permit Application for Temporary Hot Oil Heater
Ergon Asphalt Partners LP Gloucester City, NJ (Facility ID 50519)

Dear Sir/Madam,

This application is for a Subchapter 8 permit for our Gloucester City, New Jersey facility. Ergon Asphalt Partners LP (Ergon) operates a liquid asphalt cement terminal and storage facility in Gloucester City, New Jersey (Facility ID 50519). Incoming base asphalt is received by truck, ship or barge and stored in heated storage tanks at the facility. Depending upon the type of asphalt product desired, polymer materials and other additives may be blended with the base asphalt. Asphalt material is shipped from the terminal either via truck or barge.

The storage tanks are heated by four hot-oil heaters (PCP040002). Ergon has recently detected mechanical issues with one of the heaters, Hot Oil Heater 5 (E2002). This heater requires repairs that will result in the heater being out of service for an extended period of time. Ergon will be installing a temporary hot-oil heater to maintain the storage tank heating system during repairs of E2002. This permit application is for the temporary heater.

The temporary hot-oil heater meets the Subchapter 8 permitting exemption requirements per N.J.A.C. 7:27-8.2(d)16 for construction, repair, or maintenance (CRM) activities. The unit is a portable unit, mounted on skids and will only be used while E2002 is out of service for necessary repairs. The repairs were initially expected to take less than 90 days. However, Ergon was recently notified that delivery of required replacement parts will take longer than 90 days. Thus, the temporary hot-oil heater will be in service for over 90 days as a result of these delays in receiving the replacement part(s).

The repairs are expected to commence on or about August 15, 2023. After consultation with the Department, Ergon plans to commence operation of the temporary hot-oil heater under the Subchapter 8 permitting exemption for CRM activities. Ergon will submit the notifications required by N.J.A.C. 7:27-8.2(d)16(v) and (vi) to the Southern Regional Enforcement Office. This permit application is being submitted as suggested by the Department to enable operation of the temporary hot-oil heater if needed beyond the 90-day exemption for CRM activities.

The temporary hot-oil heater (E102006) is a natural gas-fired unit, with a heat input rating of approximately 10.5 MMBtu/hour. The unit was previously operated at an Ergon facility in New Mexico and permitted by the New Mexico Environment Department's (NMED) Air Quality Bureau. The unit was permitted by NMED with a heat input of 8.4 MMBtu/hour. Representatives from Enerquip Thermal Solutions – the heater manufacturer – informed Ergon that the heat input rating of 8.4 MMBtu/hour was based on an altitude of 5,000 feet. The 10.5 MMBtu/hour heat input rating is based on the unit being located at or near sea level.

Potential emissions from the heater were estimated based on calculation methodology identified in AP-42 Section 1.4 "Natural Gas Combustion" revised July 1998. Although the temporary heater is expected to operate



for approximately 180 days, potential emissions were estimated on a worst-case basis of 8,760 hours of operation. Potential emissions from all contaminants from the temporary oil heater are less than 5 tons per year. Potential emissions from all hazardous air pollutants (HAPs) are below the corresponding reporting SOTA thresholds of N.J.A.C. 7:27-17. Thus, the temporary heater is not subject to the Department's SOTA requirements.

Table 1 provides the backup calculations for the potential emissions from the temporary heater including a breakdown of the potential HAP emissions. Arsenic, cadmium, cobalt and formaldehyde are the only HAP emissions that exceed the reporting threshold rates identified in N.J.A.C. 7-27-17.9.

The NJDEP Division of Air Quality Risk Screening Worksheet for Long-Term Carcinogenic and Non-carcinogenic Effects and Short-Term Effects was completed for the reportable HAP emissions. Long-term incremental risk (IR) and hazard quotient (HQ) were determined based on potential annual emissions from the temporary heater. The IR for each of the four reportable HAP compounds was determined to be less than 1.0×10^{-6} . Thus, the IR of is within the Departments acceptable criteria of 1×10^{-6} .

Short-term hazard quotient (HQst) was determined for the reportable HAP emissions based on their respective maximum hourly emission rates. The HQst for each reportable HAP is less than 1, the Department's acceptable criteria for HQst.

The IR, HQ and the HQst for the reportable HAP emissions were determined to be below the Departments acceptable criteria. Therefore, the Risk Screening Worksheet (attached) demonstrates that the proposed HAP emissions from the temporary portable heater will result in negligible risk.

The temporary heater was previously permitted and operated at an Ergon facility in New Mexico. The unit was located at an altitude of approximately 5,000 feet. The manufacturer's representative has indicated that the unit was rated at a heat input of approximately 8.4 MMBtu/hour at that altitude. As sea level, the approximately altitude of the Gloucester City facility, the unit is rated at a heat input of 10.5 MMBtu/hour.

Therefore, the unit will now be subject to the New Source Performance Standards (NSPS) Subpart Dc requirements. The NSPS Subpart Dc requirements apply to Small Industrial-Commercial-Institutional Steam Generating Units with a maximum design heat input capacity of 100 MMBtu/hr or less, and greater than or equal 10 MMBtu/hr. The primary NSPS Subpart Dc requirement applicable to the temporary heater is 40 CFR 60.48c(g)(2) which requires monthly recordkeeping of fuel usage.

We would be pleased to answer any questions about the applications. Please contact me at (267) 460-8839 or Mr. Randall Abbuhl at Weston Solutions, Inc. at 732-417-5810. Also, we request the opportunity to discuss any permit conditions with you prior to their issuance.

Sincerely,
Ergon Asphalt Partners LP

Ronald Shiver
EHS Compliance Manager

cc: K. Hanson, Ergon
R. Abbuhl, Weston

**Table 1 - Potential Emission Rates from Temporary Natural Gas-Fired Hot Oil Heater (E102006)
Ergon Asphalt Partners LP (Facility ID 50519)
Gloucester City, NJ**

| | |
|------------------------------|---------------|
| Fuel Type | Natural Gas |
| Total Heat Input | 10.5 MMBtu/hr |
| Higher Heating Value of Fuel | 1,020 Btu/scf |
| Maximum Potential Fuel Use | 85.0 MMscf/yr |

| Combustion Products | Emission Factor | | Emission Rate | | | Basis of Estimate | |
|--------------------------------|-----------------|------------------|---------------|--------|----------|-------------------|--------------------------------------|
| | | | | | | | |
| Criteria Pollutants | | | | | | | |
| Nitrogen Oxides | 100 | lbs/MMscf | 1.03 | lbs/hr | 4.25 | tpy | AP-42, Table 1.4-1 (7/98) |
| Carbon Monoxide | 84 | lbs/MMscf | 0.86 | lbs/hr | 3.57 | tpy | AP-42, Table 1.4-1 (7/98) |
| Particulate Matter | 7.6 | lbs/MMscf | 0.08 | lbs/hr | 0.32 | tpy | AP-42, Table 1.4-1 (7/98) |
| Non-methane VOC | 5.5 | lbs/MMscf | 0.06 | lbs/hr | 0.23 | tpy | AP-42, Table 1.4-1 (7/98) |
| Sulfur Dioxide | 0.6 | lbs/MMscf | 6.18E-03 | lbs/hr | 0.03 | tpy | AP-42, Table 1.4-1 (7/98) |
| Lead | 0.0005 | lbs/MMscf | 5.15E-06 | lbs/hr | 2.13E-05 | tpy | AP-42, Table 1.4-1 (7/98) |
| Federal HAPs - Listed | | | | | | | |
| Arsenic | 2.00E-04 | lbs/MMscf | 2.06E-06 | lbs/hr | 1.70E-02 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Benzene | 2.10E-03 | lbs/MMscf | 2.16E-05 | lbs/hr | 0.18 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Beryllium | 1.20E-05 | lbs/MMscf | 1.24E-07 | lbs/hr | 0.001 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Cadmium | 1.10E-03 | lbs/MMscf | 1.13E-05 | lbs/hr | 9.35E-02 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Chromium | 1.40E-03 | lbs/MMscf | 1.44E-05 | lbs/hr | 0.12 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Cobalt | 8.40E-05 | lbs/MMscf | 8.65E-07 | lbs/hr | 7.14E-03 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Dichlorobenzene | 1.20E-03 | lbs/MMscf | 1.24E-05 | lbs/hr | 0.10 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Formaldehyde | 7.50E-02 | lbs/MMscf | 7.72E-04 | lbs/hr | 6.38 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Hexane | 1.8 | lbs/MMscf | 1.85E-02 | lbs/hr | 153.0 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Manganese | 3.80E-04 | lbs/MMscf | 3.91E-06 | lbs/hr | 0.03 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Mercury | 2.60E-04 | lbs/MMscf | 2.68E-06 | lbs/hr | 0.02 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Naphthalene | 6.10E-04 | lbs/MMscf | 6.28E-06 | lbs/hr | 0.05 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Nickel | 2.10E-03 | lbs/MMscf | 2.16E-05 | lbs/hr | 0.18 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Selenium | 2.40E-05 | lbs/MMscf | 2.47E-07 | lbs/hr | 0.002 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Toluene | 3.40E-03 | lbs/MMscf | 3.50E-05 | lbs/hr | 0.29 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Federal HAPs - POM/PAH | | | | | | | |
| 2-Methylnaphthalene | 2.40E-05 | lbs/MMscf | 2.47E-07 | lbs/hr | 2.04E-03 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| 3-Methylchloranthrene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| 7,12-Dimethylbenz(a)anthracene | 1.60E-05 | lbs/MMscf | 1.65E-07 | lbs/hr | 1.36E-03 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Acenaphthene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Acenaphthylene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Anthracene | 2.40E-06 | lbs/MMscf | 2.47E-08 | lbs/hr | 2.04E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Benzo(a)anthracene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Benzo(a)pyrene | 1.20E-06 | lbs/MMscf | 1.24E-08 | lbs/hr | 1.02E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Benzo(b)fluoranthene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Benzo(g,h,i)perylene | 1.20E-06 | lbs/MMscf | 1.24E-08 | lbs/hr | 1.02E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Benzo(k)fluoranthene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Chrysene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Dibenzo(a,h)anthracene | 1.20E-06 | lbs/MMscf | 1.24E-08 | lbs/hr | 1.02E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Fluoranthene | 3.00E-06 | lbs/MMscf | 3.09E-08 | lbs/hr | 2.55E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Fluorene | 2.80E-06 | lbs/MMscf | 2.88E-08 | lbs/hr | 2.38E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Indeno(1,2,3-cd)pyrene | 1.80E-06 | lbs/MMscf | 1.85E-08 | lbs/hr | 1.53E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Phenanthrene | 1.70E-05 | lbs/MMscf | 1.75E-07 | lbs/hr | 1.45E-03 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| Pyrene | 5.00E-06 | lbs/MMscf | 5.15E-08 | lbs/hr | 4.25E-04 | lbs/yr | AP-42, Tables 1.4-3 and 1.4-4 (7/98) |
| | | Total POM | 9.08E-07 | lbs/hr | 7.50E-03 | lbs/yr | |
| | | Total HAP | 1.94E-02 | lbs/hr | 160.5 | lbs/yr | |

