Permit to Construct P-2008.0119

Final Permit

Central Washington Asphalt, Inc.
Portable Hot Mix Asphalt Plant
Rathdrum, Idaho
Facility ID No. 777-00438

November 24, 2009

Dan Pitman, P.E.
Permit Writer

The purpose of this Statement of Basis is to satisfy the requirements of IDAPA 58.01.01.et seq, Rules for the Control of Air Pollution in Idaho, for issuing air permits.
# Table of Contents

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE ......................................................... 3

1. FACILITY INFORMATION .................................................................................. 5

2. APPLICATION SCOPE AND APPLICATION CHRONOLOGY .............................. 5

3. TECHNICAL ANALYSIS ..................................................................................... 5

4. REGULATORY REVIEW ..................................................................................... 8

5. PERMIT FEES ..................................................................................................... 14

6. PUBLIC COMMENT ............................................................................................ 14

APPENDIX A – AIRS INFORMATION

APPENDIX B – EMISSIONS INVENTORY
### Acronyms, Units, and Chemical Nomenclature

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAC</td>
<td>acceptable ambient concentrations for non-carcinogens</td>
</tr>
<tr>
<td>AACC</td>
<td>acceptable ambient concentrations for carcinogens</td>
</tr>
<tr>
<td>acfm</td>
<td>actual cubic feet per minute</td>
</tr>
<tr>
<td>AFS</td>
<td>AIRS Facility Subsystem</td>
</tr>
<tr>
<td>AIRS</td>
<td>Aerometric Information Retrieval System</td>
</tr>
<tr>
<td>AQCR</td>
<td>Air Quality Control Region</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>BACT</td>
<td>Best Available Control Technology</td>
</tr>
<tr>
<td>Btu</td>
<td>British thermal unit</td>
</tr>
<tr>
<td>CAA</td>
<td>Clean Air Act</td>
</tr>
<tr>
<td>CAM</td>
<td>Compliance Assurance Monitoring</td>
</tr>
<tr>
<td>CAS No.</td>
<td>Chemical Abstracts Service registry number</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CI</td>
<td>Compression ignition</td>
</tr>
<tr>
<td>CO</td>
<td>carbon monoxide</td>
</tr>
<tr>
<td>DEQ</td>
<td>Department of Environmental Quality</td>
</tr>
<tr>
<td>dscf</td>
<td>dry standard cubic feet</td>
</tr>
<tr>
<td>EL</td>
<td>screening emission levels</td>
</tr>
<tr>
<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>FEC</td>
<td>Facility Emissions Cap</td>
</tr>
<tr>
<td>gpm</td>
<td>gallons per minute</td>
</tr>
<tr>
<td>gr</td>
<td>grain (1 lb = 7,000 grains)</td>
</tr>
<tr>
<td>HAP</td>
<td>hazardous air pollutants</td>
</tr>
<tr>
<td>hp</td>
<td>horsepower</td>
</tr>
<tr>
<td>hr/yr</td>
<td>hours per year</td>
</tr>
<tr>
<td>ICE</td>
<td>Internal Combustion Engine</td>
</tr>
<tr>
<td>IDAPA</td>
<td>a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act</td>
</tr>
<tr>
<td>km</td>
<td>kilometers</td>
</tr>
<tr>
<td>lb/hr</td>
<td>pounds per hour</td>
</tr>
<tr>
<td>m</td>
<td>meters</td>
</tr>
<tr>
<td>MACT</td>
<td>Maximum Achievable Control Technology</td>
</tr>
<tr>
<td>MMBtu</td>
<td>million British thermal units</td>
</tr>
<tr>
<td>NAICS</td>
<td>North American Industry Classification System</td>
</tr>
<tr>
<td>NESHAP</td>
<td>National Emission Standards for Hazardous Air Pollutants</td>
</tr>
<tr>
<td>NO₂</td>
<td>nitrogen dioxide</td>
</tr>
<tr>
<td>NOₓ</td>
<td>nitrogen oxides</td>
</tr>
<tr>
<td>NSPS</td>
<td>New Source Performance Standards</td>
</tr>
<tr>
<td>PC</td>
<td>permit condition</td>
</tr>
<tr>
<td>PM</td>
<td>particulate matter</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>PTC</td>
<td>permit to construct</td>
</tr>
<tr>
<td>PTE</td>
<td>potential to emit</td>
</tr>
<tr>
<td>Rules</td>
<td>Rules for the Control of Air Pollution in Idaho</td>
</tr>
<tr>
<td>scf</td>
<td>standard cubic feet</td>
</tr>
</tbody>
</table>
SIC  Standard Industrial Classification
SIP  State Implementation Plan
SM  Synthetic Minor
SO₂  sulfur dioxide
SO₅  sulfur oxides
T/yr  tons per year
T2  Tier II operating permit
T2/PTC  Tier II operating permit and permit to construct
TAP  toxic air pollutant
T-RACT  Toxic Air Pollutant Reasonably Available Control Technology
UTM  Universal Transverse Mercator
VOC  volatile organic compounds
μg/m³  micrograms per cubic meter
1. FACILITY INFORMATION

1.1 Facility Description

Central Washington is proposing to operate a portable 450\(^1\) ton per hour drum mix asphalt plant in Idaho. Aggregate is dried and mixed with asphalt in the hot drum. Distillate fuel oil is used to fire the drum mix asphalt plant. The facility includes a heated asphalt tank, two portable electrical generator sets, asphalt storage and transfer, and aggregate handling operations.

1.2 Permitting Action and Facility Permitting History

This permit is the initial PTC for this facility.

2. APPLICATION SCOPE AND APPLICATION CHRONOLOGY

2.1 Application Scope

The application is for the initial permit to construct for a portable hot mix asphalt plant and two portable electrical generator sets.

2.2 Application Chronology

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 17, 2008</td>
<td>DEQ received and application for the Central Washington portable asphalt plant.</td>
</tr>
<tr>
<td>August 8, 2008</td>
<td>DEQ determined the application incomplete.</td>
</tr>
<tr>
<td>May 13, 2009</td>
<td>DEQ received and updated application from Central Washington Asphalt.</td>
</tr>
<tr>
<td>June 12, 2009</td>
<td>DEQ determined Central Washington’s application complete.</td>
</tr>
<tr>
<td>August 6, 2009</td>
<td>DEQ issued a facility draft permit to Central Washington for review</td>
</tr>
<tr>
<td>August 24, 2009</td>
<td>DEQ received Central Washington’s comment on the facility draft (sole comment was to remove the requirement to have load-out emissions controlled by the baghouse)</td>
</tr>
<tr>
<td>November 17, 2009</td>
<td>DEQ received the PTC processing fee from Central Washington</td>
</tr>
</tbody>
</table>

3. TECHNICAL ANALYSIS

3.1 Emission Unit and Control Device

<table>
<thead>
<tr>
<th>Emissions Unit Description</th>
<th>Control Device Description</th>
<th>Emissions Discharge Point ID No. and/or Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum Mix Asphalt Plant Stack</td>
<td>Baghouse</td>
<td>Dryer Baghouse Stack</td>
</tr>
<tr>
<td>Asphalt Storage Tank &amp; Tank Heater</td>
<td>None</td>
<td>Storage Tank Stack</td>
</tr>
<tr>
<td>Generator Engines (Caterpillar 700kW &amp; Onan 125 kW)</td>
<td>None</td>
<td>Generator Engine Stack</td>
</tr>
</tbody>
</table>

\(^1\) According to the applications submitted by Central Washington the manufacturer rated he asphalt plant as a 400 T/hr plant, and Central Washington has certified that the maximum capacity of this plant is actually 450 T/hr. The emission inventory for this permit action is based on a capacity of 450 T/hr as requested by Central Washington.
3.2 Emissions Inventory

The emission inventory upon which the permit is based is from the DEQ-developed emission inventory spreadsheet for hot mix asphalt plants. The permittee had submitted an emission inventory but discrepancies were found in that inventory. The emission inventories were discussed with Central Washington Asphalt on June 3, 2009. Central Washington agreed to use DEQ's emission inventory rather than work through the discrepancies with the inventory provided in the application.

Particulate matter, nitrogen oxide, carbon monoxide and volatile organic compound emissions are estimated based on emission factors obtained during a source test conducted on June 20, 2007. All other emission estimates are based on US EPA AP-42 emission factors. DEQ's emission inventory is included in Appendix B and is summarized in Table 3.2. In accordance with AP-42, Section 11.1.1.1.3, recycled asphalt may be used at a rate of up to 50% of the total production in counter flow drum mix plants with little or no affect upon emissions; therefore the permit allows use of recycled asphalt up to 30% of the total production (which is the recycled asphalt usage rate requested by Central Washington).
Table 3.2 FACILITY-WIDE CRITERIA AIR POLLUTANT EMISSIONS SUMMARY

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Drum Mix Plant</th>
<th>Tank Heater</th>
<th>IC Engine (Caterpillar &amp; Onan)</th>
<th>Asphalt Load Out &amp; Silo Filling</th>
<th>Potential to Emit (Permitted Emissions)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lb/hr</td>
<td>T/yr</td>
<td>lb/hr</td>
<td>T/yr</td>
<td>lb/hr</td>
</tr>
<tr>
<td>PM</td>
<td>0.84</td>
<td>0.32</td>
<td>1.59E-2</td>
<td>1.46E-2</td>
<td>1.19E+00</td>
</tr>
<tr>
<td>PM-10</td>
<td>0.84</td>
<td>0.32</td>
<td>1.59E-2</td>
<td>1.46E-2</td>
<td>8.40E-01</td>
</tr>
<tr>
<td>CO</td>
<td>10.2</td>
<td>3.83</td>
<td>3.41E-2</td>
<td>2.21E-2</td>
<td>6.83E+00</td>
</tr>
<tr>
<td>NOx</td>
<td>12.52</td>
<td>4.70</td>
<td>9.63E-2</td>
<td>8.83E-2</td>
<td>7.80E+00</td>
</tr>
<tr>
<td>SO₂</td>
<td>4.4</td>
<td>1.65</td>
<td>0.068</td>
<td>6E-3</td>
<td>4.54</td>
</tr>
<tr>
<td>VOC</td>
<td>0.96</td>
<td>0.36</td>
<td>2.68E-3</td>
<td>2.46E-3</td>
<td>1.17E+00</td>
</tr>
<tr>
<td>Pb</td>
<td>6.0E-3</td>
<td>2.23E-3</td>
<td>7.27E-6</td>
<td>6.67E-6</td>
<td>NA</td>
</tr>
</tbody>
</table>

a) Permitted emission rate

Table 3.3 provides a summary of the facility toxic air pollutant emissions for those pollutants which exceeded the toxic air pollutant screening emission level. The emissions these pollutants were modeled and all ambient impacts were determined to be in compliance with the toxic air pollutant rules.

Table 3.3 FACILITY-WIDE TOXIC AIR POLLUTANT EMISSIONS SUMMARY

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>Total Emissions (lb/hr annual average)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>1.68E-2</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>1.1E-1</td>
</tr>
<tr>
<td>PAH³</td>
<td>2.3E-2</td>
</tr>
<tr>
<td>POM</td>
<td>7.57E-6</td>
</tr>
<tr>
<td>Arsenic</td>
<td>2.05E-5</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1.44E-5</td>
</tr>
<tr>
<td>Hexavalent Chromium</td>
<td>1.57E-5</td>
</tr>
<tr>
<td>Nickel</td>
<td>2.24E-3</td>
</tr>
</tbody>
</table>

a) Permitted emission rate
b) Naphthalene
3.3 Ambient Air Quality Impact Analysis

The ambient air impact analyses demonstrated to DEQ’s satisfaction\(^2\) that emissions from the facility will not cause or significantly contribute to a violation of any air quality standard. The modeling analysis shows compliance with criteria and toxic air pollutants standards with 410 feet from the dryer stack to areas where the public has access. The initial draft permit provided to Central Washington specified a setback of 344 feet. Central Washington's only comment to the draft permit was to remove the requirement to have silo load-out emissions sent to the baghouse. DEQ agreed to allow Central Washington to change the scope of the application due to pending compliance issues\(^3\). This required that emissions be remodeled to assure compliance with all toxic air pollutant increments and ambient standards. Modeling of this operating scenario resulted in a new set back requirement of 125 meters (410 feet).

4. REGULATORY REVIEW

4.1 Attainment Designation (40 CFR 81.313)

The facility is permitted to locate areas which are designated as attainment or unclassifiable for PM\(_{10}\), PM\(_{2.5}\), CO, NO\(_2\), SO\(_x\), and Ozone. Reference 40 CFR 81.313. The permit precludes operation in areas designated as non-attainment for particulate matter.

4.2 Permit to Construct (IDAPA 58.01.01.201)

Central Washington Asphalt has submitted an application to obtain a permit to construct in accordance with IDAPA 58.01.01.202. The facility would not qualify for an exemption from the need to obtain a permit to construct in accordance with IDAPA 58.01.01.220-223.

4.3 Tier II Operating Permit (IDAPA 58.01.01.401)

The facility is not subject to Tier II Operating permit requirements. Maximum permitted emissions are 63.1 tons per year of nitrogen oxides which is below the 100 ton per year major facility threshold.

4.4 Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70)

The facility is not Title V major facility and therefore is not subject to the Title V permitting requirements. Maximum permitted emissions are 63.1 tons per year of nitrogen oxides which is below the 100 ton per year major facility threshold; hazardous air pollutant emission in aggregate are less than 25 tons per year and no one hazardous air pollutant is emitted at 10 or more tons per year.


\(^3\) Central Washington was operating in violation of a consent order which required silo emissions to be vented to the baghouse. Central Washington did not, and is not planning to, vent load-out emissions to the baghouse.
4.5 PSD Classification (40 CFR 52.21)

The facility is not a designated PSD facility, and does not emit air pollutants at PSD thresholds (250 T/yr).

The facility solely consists of the asphalt plant operations. The permit precludes collocation with another industrial source of air pollution therefore there are no support facilities contributing the potential to emit of the facility.

4.6 NSPS Applicability (40 CFR 60)

Subpart I

§ 60.90 Applicability and designation of affected facility.

(a) The affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.

(b) Any facility under paragraph (a) of this section that commences construction or modification after June 11, 1973, is subject to the requirements of this subpart.

Central Washington’s Gencor Asphalt Plant was constructed after June 11, 1973 and is therefore an affected facility.

§ 60.91 Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

(a) Hot mix asphalt facility means any facility, as described in §60.90, used to manufacture hot mix asphalt by heating and drying aggregate and mixing with asphalt cements.

§ 60.92 Standard for particulate matter.

(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any affected facility any gases which:

(1) Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).

(2) Exhibit 20 percent opacity, or greater.

These emission standards are included in the permit to construct.
§ 60.93 Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.92 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).

(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.

The initial source test required by the NSPS was conducted on June 20, 2007 near Moses Lake in the State of Washington.

Subpart III

§ 60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

This section only applies to manufacturers of stationary compression ignition engines.

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines, or

The Caterpillar engine was manufactured in October of 1980, and the Onan engine was manufactured in November of 1985.

(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(3) Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005.

Neither the Caterpillar nor Onan engine has been modified after July 11, 2005.

Because neither generator engine was manufactured after April 1, 2006 or modified after July 11, 2005 NSPS Subpart III does not apply to Central Washington Asphalt for the Caterpillar or Onan engines.

4.7 NESHAP Applicability (40 CFR 61)

The hot mix asphalt plant facility is not defined as affected by any Subpart of 40 CFR 61.
4.8 MACT Applicability (40 CFR 63)
The hot mix asphalt plant facility is not defined as affected by any Subpart of 40 CFR 63.

4.9 CAM Applicability (40 CFR 64)
The facility is not a Tier I major facility and is not subject to the compliance assurance monitoring requirements.

4.10 Permit Conditions Review

This section describes the permit conditions for this initial permit or only those permit conditions that have been added, revised, modified or deleted as a result of this permitting action. For example:

**Permit Condition 2.3**

*PM₁₀ emissions from the HMA Dryer stack shall not exceed 2.10 E -3 pounds of per ton of asphalt produced, as determined by a test method prescribed by IDAPA 58.01.01.157 or DEQ approved alternative.*

This emission restriction along with the limitation on the amount of asphalt that may be produced in a day restricts the daily pound per hour PM₁₀ emissions to the emission rate (0.34 lb/hr) that was used in air dispersion modeling which should comply with standards. Emissions were limited to pounds per ton of asphalt instead of pounds per hour because the maximum hourly production of the plant given by the applicant ranged from 400 to 450 tons per hour. Limiting emissions to pounds per ton of asphalt produced and limiting the amount of asphalt that may be produced restricts the daily average emissions to those rates which were modeled and allows the facility to produce either 400 or 450 tons per hour as long it does not exceed the daily production limit.

Compliance with this emissions rate limit is also demonstrated by complying with fuel, baghouse operating and monitoring requirements, and periodic source testing requirements.

**Permit Condition 2.4**

Permit Condition 2.4 limits opacity emissions to 20% per IDAPA 58.01.01.625. Compliance is assured by daily visible emissions monitoring required by Permit Condition 2.14.

**Permit Condition 2.5**

This permit conditions includes the NSPS particulate matter and opacity standards for hot mix asphalt plants. Compliance is assured with the particulate matter grain loading standard by periodic source testing required; compliance is assured with the visible emissions limit by weekly visible emissions monitoring. The initial performance test required by the NSPS was conducted on June 20, 2007; the periodic testing required by the permit is a reasonable permit condition in accordance with IDAPA 58.01.01.211.

**Permit Condition 2.6**

This condition limits throughput and setback distance. The production limits are based on the emission inventory that was used to determine compliance with the ambient standards. The set back distance was established by air dispersion modeling.
Permit Condition 2.7

This is the IDAP A requirements to reasonably control fugitive emissions.

Permit Condition 2.8

This permit condition limits fuel use distillate fuel oil because this is what the compliance demonstration emission inventory is based upon.

Permit Condition 2.9

This permit condition limits fuel oil sulfur content as specified by IDAPA.

Permit Condition 2.10

This permit condition is the IDAPA odor standard.

Permit Condition 2.11

This permit condition requires the operation of a baghouse consistent with the application and the emission inventory that was used to demonstrate compliance.

Permit Condition 2.12

Permit condition 2.12 includes permit language for baghouses consistent with comments provided on the draft permit by DEQ’s Coeur d’ Alene Regional Office.

Permit Condition 2.13

This permit condition limits generator hours of operation consistent with application and the emission inventory that was used to demonstrate compliance.

Permit Condition 2.14

This permit condition requires daily visible emissions monitoring consistent with comments on the draft permit provided by DEQ’s Coeur d’ Alene Regional Office.

Permit Condition 2.15

This permit condition requires daily fugitive dust monitoring consistent with comments provided on the draft permit by DEQ’s Coeur d’ Alene Regional Office.

Permit Condition 2.16

This permit condition requires production monitoring to assure compliance with production limits.

Permit Condition 2.17

This permit condition requires set back monitoring to assure compliance with set back requirements.
Permit Condition 2.18

This permit condition requires monitoring to assure compliance with fuel sulfur limits.

Permit Condition 2.19

This permit condition requires maintaining information on odor complaints if received consistent with DEQ’s permit for Asphalt Plants (P-2008.0058, Gordon Paving, issued June 24, 2009).

Permit Condition 2.20

This permit condition requires monitoring of generator hours of operation to assure compliance with generator usage limits.

Permit Condition 2.21

This permit condition requires PM performance test once every 5 years consistent with DEQ’s permit’s for Asphalt Plants (i.e. P-2008.0058, Gordon Paving, Issued June 24, 2009). The initial source test required by the NSPS was conducted on June 20, 2007 and a source test was required by a consent order by July 22, 2009. Therefore, the permit does not need to require a source test within 180 days of startup; a test within 5 years of permit issuance is sufficient.

Permit Condition 2.22

This permit condition requires monitoring production information during the performance test. The production information matches those permit restrictions that are established to provide limits on emissions and required to be monitored to assure the source test is conducted consistent with how the facility is permitted.

Permit Condition 2.23

This permit condition includes a fugitive dust plan consistent with the one required by the consent order signed by Central Washington Asphalt on June 30, 2009.

Permit Condition 2.24 – 2.26

Permit Conditions 2.24- 2.26 are self explanatory.

Permit Condition 27

This permit condition precludes operation in areas designated as nonattainment (see the Dispersion Modeling memorandum in Appendix C).

Permit Condition 28
This permit conditions limits co-located operations of other industrial facilities consistent the requirements specified in see the air pollution dispersion modeling memorandum\(^4\) that DEQ conducted for this permit action.

5. PERMIT FEES

Table 5.1 lists the processing fee associated with this permitting action. In accordance with IDAPA 58.01.01.225 the facility is subject to a processing fee of $5,000 because its permitted emissions are 97.6 tons per year. Refer to the chronology for fee receipt dates.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Annual Emissions Increase (T/yr)</th>
<th>Annual Emissions Reduction (T/yr)</th>
<th>Annual Emissions Change (T/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO(_X)</td>
<td>63.1</td>
<td>0</td>
<td>63.1</td>
</tr>
<tr>
<td>SO(_2)</td>
<td>10.4</td>
<td>0</td>
<td>10.4</td>
</tr>
<tr>
<td>CO</td>
<td>19.1</td>
<td>0</td>
<td>19.1</td>
</tr>
<tr>
<td>PM(_{10})</td>
<td>1.7</td>
<td>0</td>
<td>1.7</td>
</tr>
<tr>
<td>VOC</td>
<td>2.3</td>
<td>0</td>
<td>2.3</td>
</tr>
<tr>
<td>HAPS</td>
<td>&lt; 1</td>
<td>0</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Total:</td>
<td>97.6</td>
<td>0</td>
<td>97.6</td>
</tr>
</tbody>
</table>

Fee Due $5,000.00

6. PUBLIC COMMENT

An opportunity for public comment period on the PTC application was provided from July 16, 2009 to August 4, 2009 in accordance with IDAPA 58.01.01.209.01.c. During this time, there were no comments on the application and there was not a request for a public comment period on DEQ’s proposed action.

Appendix A – AIRS Information
AIRS/AFS Facility-wide Classification – Data Form

Facility Name: Central Washington Asphalt
Facility Location: Portable
Facility ID: 777-00436
Project/Permit No.: P-2008.0119
Date: 7/15/09
Completed By: Dan Pitman

☐ Check if there are no changes to the facility-wide classification resulting from this action. (compare to form with last permit)
Comments:

☐ Yes, this facility is an SM80 source.

Identify the facility’s area classification as A (attainment), N (nonattainment), or U (unclassified) for the following pollutants:

Area Classification: SO2 PM10 VOC

☐ U ☐ U ☐ U

DO NOT LEAVE ANY BLANK

Check one of the following:

☒ SIP (0) - Yes, this facility is subject to SIP requirements. (do not use if facility is Title V)

☐ Title V (V) - Yes, this facility is subject to Title V requirements. (If yes, do not also use SIP listed above.)

For SIP or TV, identify the classification (A, SM, B, C, or ND) for the pollutants listed below. Leave box blank if pollutant is not applicable to facility.

Classification:

<table>
<thead>
<tr>
<th>SO2</th>
<th>NOx</th>
<th>CO</th>
<th>PM10</th>
<th>PT (PM)</th>
<th>VOC</th>
<th>THAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>SM</td>
<td>SM</td>
<td>SM</td>
<td>SM</td>
<td>B</td>
<td>B</td>
</tr>
</tbody>
</table>

☐ PSD (6) - Yes, this facility has a PSD permit.

If yes, identify the pollutant(s) listed below that apply to PSD. Leave box blank if pollutant does not apply to PSD.

Classification:

<table>
<thead>
<tr>
<th>SO2</th>
<th>NOx</th>
<th>CO</th>
<th>PM10</th>
<th>PT (PM)</th>
<th>VOC</th>
<th>THAP</th>
</tr>
</thead>
</table>

☐ NSR - NAA (7) - Yes, this facility is subject to NSR nonattainment area (IDAPA 98.01.01.204) requirements.

Note: As of 9/12/08, Idaho has no facility in this category.

If yes, identify the pollutant(s) listed below that apply to NSR-NAA. Leave box blank if pollutant does not apply to NSR - NAA.

Classification:

<table>
<thead>
<tr>
<th>SO2</th>
<th>NOx</th>
<th>CO</th>
<th>PM10</th>
<th>PT (PM)</th>
<th>VOC</th>
<th>THAP</th>
</tr>
</thead>
</table>

☐ NESHAP (8) - Yes, this facility is subject to NESHAP (Part 61) requirements. (THAP only)

If yes, what CFR Subpart(s) is applicable?

☒ NSPS (9) - Yes, this facility is subject to NSPS (Part 60) requirements.

If yes, what CFR Subpart(s) is applicable?

☐ Subpat I

If yes, identify the pollutant(s) regulated by the subpart(s) listed above. Leave box blank if pollutant does not apply to the NSPS.

Classification:

<table>
<thead>
<tr>
<th>SO2</th>
<th>NOx</th>
<th>CO</th>
<th>PM10</th>
<th>PT (PM)</th>
<th>VOC</th>
<th>THAP</th>
</tr>
</thead>
</table>

☐ MACT (M) - Yes, this facility is subject to MACT (Part 63) requirements. (THAP only)

If yes, what CFR Subpart(s) is applicable?

REV. 5/12/2009
Appendix B – Emissions Inventory
## CURRENT PTC APPLICATION ESTIMATES

**DEQ Verification Worksheets: Hot Mix Asphalt (HMA) Drum Mix Facility Data**

- **Facility AIRS No.:** 777-000438
- **Spreadsheet Date:** 7/10/2008 14:18
- **Permit No.:** P-2008.0119
- **Facility Owner/Company Name:** Central Washington Asphalt Paving, Inc.
- **Address:** PORTABLE
- **City, State, Zip:**
- **Facility Contact:**
- **Contact Number/Email:**
- **Use Short Term Source Factor on 666 ELA/ YR:** N
- **Use T-RACT on 666 AAC7 YR:** N
- **Include Sto Fill & Loadout Emissions?** Y

### Hot Mix Plant

- **AP-42 Section 11.1**
- **Input (Bold Color) or Calculated Value (Black):**
- **Fuel Type(s):**
- **Fuel Type Toggle ("Y" or "):**

<table>
<thead>
<tr>
<th>Drum Dryer Make/Model</th>
<th>Fuels</th>
<th>LPG or Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gencor 400</td>
<td>-</td>
<td>0</td>
</tr>
</tbody>
</table>

### Asphalt Tank Heater

- **AP-42, Section 11.1 (oil or natural gas fuel), or Section 1.4 (natural gas fuel)**
- **Fuel Type(s):**
- **Fuel Toggle:**

<table>
<thead>
<tr>
<th>Rated heat input capacity, MMBtu/hr</th>
<th>Fuel Type(s)</th>
<th>Fuel Toggle</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,639</td>
<td>#2 Fuel Oil</td>
<td>1</td>
</tr>
</tbody>
</table>

### 24 Hours/Day x 7 Months x 30 Days/Mo = 5,040 Hrs

- **Tank Heater Fuel Consumption:**
  - **#2 Fuel Oil:**
  - **Natural Gas:**

### EF Options

- **Use EFs in lb/MMBtu fuel input:**
- **#2 Fuel Oil:**
- **Natural Gas:**

- **Maximum Operating Hours per Year:**
- **1,834**

- **Note:** AP-42 EFs for natural gas and diesel combustion are based on heat values of 1,030 Btu/kW and 137,030 Btus/kW.

### Electrical Generators

**G1 Electrical Generator < 500 hp (447 kW) AP-42 Section 3.3 (diesel fueled)**

- **Fuel Toggles:**
- **Generator Make/Model:**
- **#2 Fuel Oil (Diesel):**
- **Max Sulfur Weight Percent (w/w):**

  **EF OPTIONS:**

  | 1 hp = 0.7458699 kW | 0.7457 | Max Operational Hours per Day: **12** |

### G2 Electrical Generator > 500 hp (447 kW) AP-42 Section 3.4 (diesel fueled)

- **Fuel Toggles:**
- **Generator Make/Model:**
- **Large Diesel:**
- **#2 Fuel Oil (Diesel):**
- **Max Sulfur Weight Percent (w/w):**

  **EF OPTIONS:**

  | 1 hp = 0.7458699 kW | 0.7457 | Max Operational Hours per Day: **12** |

### Notes

- **AP-42 Tables 3.3-3.4-x:**
  - Avg. diesel heating value is based on 19,300 Btu/lb with density equal to 7.1 lb/gal.
  - **Btu/gal:**

---

**Facility Data Input**
### Emission Inventory

<table>
<thead>
<tr>
<th>Facility: Central Washington Asphalt Paving, Inc.</th>
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</thead>
<tbody>
<tr>
<td>Permit/Facility ID: P-2008-010510</td>
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<tr>
<td>EMISSION INVENTORY</td>
</tr>
<tr>
<td>PAGES PER HOUR</td>
</tr>
<tr>
<td>7/10/2009 16:57</td>
</tr>
<tr>
<td>Page 1 of 2</td>
</tr>
</tbody>
</table>

### Max Controlled Emmissions of Any Pollutant from Drum Mix HMA Plant Fabric Filter, Tank Header, Generator, 80 kVէF, load-out

- **A. Drum Mix Plant**:
  - 400 Tons/hour
  - 760 Hour/year
  - 360,000 Ton/year
  - 1,828 Ton/year

- **B. Tank Header**:
  - 8,800 Ton/year
  - 1,834 Hour/year

- **C. Generator O1**:
  - 2,652 Tons/year
  - 900 Hour/year
  - 900 HP

- **C. Generator O2**:
  - 2,652 Tons/year
  - 900 Hour/year
  - 900 HP

- **D. Load-out & Bvllt Piping**:
  - 3,992 Tons/year
  - 1,828 Hour/year

- **E. Total of Max Emmission Rates from A, B, C & D**
  - 11,424 Tons/year
  - 1,828 Hour/year

### Pollutant Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>A. Drum Mix Max Emission Rate for Pollutant (ton/hr)</th>
<th>B. Asphalt Tank Header Max Emission Rate for Pollutant (ton/hr)</th>
<th>C. Generator O1/2 Max Emission Rate for Pollutant (ton/hr)</th>
<th>D. Load-out &amp; Bvllt Piping Max Emission Rate for Pollutant (ton/hr)</th>
<th>E. Total of Max Emission Rates from A, B, C &amp; D</th>
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</thead>
<tbody>
<tr>
<td>PM (total)</td>
<td>0.841</td>
<td>0.961</td>
<td>0.782</td>
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<td>4.336</td>
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<td>PM (10-2.5)</td>
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<td>0.000</td>
<td>0.000</td>
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</tbody>
</table>

### Notes

- **Criteria Pollutant lb/hr emissions are maximum 1-hour averages**
- **TAPs lb/hr rates are 24-hour averages except for those in bold text. lb/hr rates for bold TAPs (carcinogens) are annual averages. Pollutant shown in blue text are emitted only when burning Used Oil, but not when burning #2 Fuel Oil or Natural Gas**
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>A (Drum Mix) Max Emission Rate for Pollutant (lb/hr)</th>
<th>B (Asphalt Tank Heater) Max Emission Rate for Pollutant (lb/hr)</th>
<th>C (Generator Emission Rate for Pollutant (lb/hr))</th>
<th>D (Loose-Load &amp; Silo Filling Emission Rate for Pollutant (lb/hr))</th>
<th>E (TOTAL of All Emissions Rates from A, B, C &amp; D (lb/hr))</th>
</tr>
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<tbody>
<tr>
<td>non-PAHs</td>
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<td>Acenaphthylene</td>
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<td>Aldorine</td>
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<td>Carbazole</td>
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<td>Benzo(a)pyrene</td>
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<td>Benzo(b)fluoranthene</td>
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<td>Benzo(k)fluoranthene</td>
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</tr>
<tr>
<td>n-Butyl</td>
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</tr>
<tr>
<td>n-Octyl</td>
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<tr>
<td>Phenol</td>
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<tr>
<td>Non-PAH Oryginate Compounds</td>
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</table>

9) TCD TA: Total Air Pollutant
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PM 2.5</td>
<td>PM 10</td>
<td>NOx</td>
<td>SO2</td>
<td>CO</td>
<td>VOCs</td>
<td>NH3</td>
</tr>
<tr>
<td>PM 2.5</td>
<td>0.32</td>
<td>1.41</td>
<td>0.02</td>
<td>1.66</td>
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<td>2.29</td>
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<tr>
<td>PM 10</td>
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<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
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</tr>
</tbody>
</table>

**Emission Inventory**

- **Facility:** Central Washington Asphalt Paving, Inc.
- **Permit/Facility Id:** P-2005.0119
- **Page:** 1 of 2

**Max Controlled Emissions of Any Pollutant from Drum Mix HMA Plant Fabric Filter, Task Heater, Generators, Bldg 7/8 Load-out**

**A. Drum Mix Plant:**
- 90 TPH/yr
- 760 Hr/yr
- 90,000 TPH/yr
- 3,936 TPH/yr

**B. Task Heater,** Bldg 7/8 Load-out:
- 0.580 MMBtu/yr
- 1,854 Hr/yr

**C. Generators:**
- 0.864 MMBtu/yr
- 3,365 Hr/yr

**Maximum emission for each pollutant in any fuel burning operation selected on "Facility Data" worksheet. Fuel Sales:**
- ULSD #2 Fuel Oil
- 12,192 TPH/yr
- U.S. Gallons

**Total for:**
- Drum Mix Plant & Task Heater
- 34,220 TPH/yr
- 12,192 TPH/yr
- 46,412 TPH/yr

**Pollutant Types:**
- **PM (total):** 1.46 TPH/yr
- **PM 2.5:** 0.32 TPH/yr
- **PM 10:** 0.32 TPH/yr
- **NOx:** 3.83 TPH/yr
- **SO2:** 1.65 TPH/yr
- **CO:** 2.48 TPH/yr
- **VOCs:** 0.02 TPH/yr
- **NH3:** 0.02 TPH/yr

**Notes:**
- **IDAPA Tools Air Pollutant**
- **Total Emission:** 3.936 TPH/yr

**Emission Inventory TPY**
### Emission Inventory

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>A: Drum Mix Emission Rate for Pollutant (Tpy)</th>
<th>B: Asphalt Tank/Heater Emission Rate for Pollutant (Tpy)</th>
<th>C: Generator 01: Emission Rate for Pollutant (Tpy)</th>
<th>D: Leachate, Site Fillings, &amp; Tank Storage Emission Rate for Pollutant (Tpy)</th>
<th>E: TOTAL of Max Emission Rates from A, B, C, and D</th>
<th>Source</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-PAH HAPs</td>
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<td>0.00E+00</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>phenol</td>
<td>9.65E-06</td>
<td>0.00E+00</td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Non-HAP Organic Compounds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Methane</td>
<td>5.19E-07</td>
<td>0.00E+00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- IDAPA Toxic Air Pollutant

---

**Facility:** 0  
**Permit/Facility ID:** 777-00438  
**EMISSION INVENTORY**

Tons Per Year  
Page 3 of 2

Max Controlled Emissions of Any Pollutant from Drum Mix HMA Plant Fabric Filter, Tank Heater, Generator, Site Fill/Load-out  
A. Drum Mix Plant: 400 Tons/year  
B. Tank/Heater: 200,000 Tons/year  
C. Generator 01: 8.66 Gg/hour  
D. Leachate, Site Fillings, & Tank Storage: 3000 Tons/year  
E. TOTAL: 3.295 Tons/year  

Note:  
- Emitted from  
- Tons/year
## TAPs EL Screen - ALL SOURCES

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>TOTAL of Line Emission Rate from A, B, C, &amp; D (bbl/hr)</th>
<th>TAPs Screening Emission Limit (bbl/hr)</th>
<th>TAPs Emission Rate (bbl/hr)</th>
<th>Modelled?</th>
<th>Meets Standard?</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAHs</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>0.002</td>
<td>0.002</td>
<td>0.002</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Acenaphthene</td>
<td>0.003</td>
<td>0.003</td>
<td>0.003</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Acenaphthylene</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fluoranthene</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pyrene</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzo(a)pyrene</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzo(b)fluoranthene</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TAPs Emissions Summary

- **PAHs**
  - Total Emission Rate: 0.3 bbl/hr
  - Meets Standard: Yes

- **Naphthalene**
  - Total Emission Rate: 0.002 bbl/hr
  - Meets Standard: Yes

- **Acenaphthene**
  - Total Emission Rate: 0.003 bbl/hr
  - Meets Standard: Yes

- **Acenaphthylene**
  - Total Emission Rate: 0.000 bbl/hr
  - Meets Standard: Yes

- **Fluoranthene**
  - Total Emission Rate: 0.000 bbl/hr
  - Meets Standard: Yes

- **Pyrene**
  - Total Emission Rate: 0.000 bbl/hr
  - Meets Standard: Yes

- **Benzo(a)pyrene**
  - Total Emission Rate: 0.000 bbl/hr
  - Meets Standard: Yes

- **Benzo(b)fluoranthene**
  - Total Emission Rate: 0.000 bbl/hr
  - Meets Standard: Yes

## TAPs Emission Rates

- **PAHs**
  - Emission Rate: 0.3 bbl/hr

## Notes

- Emissions of PAHs are below the detection limit.
- All other pollutants are below the screening emission limits.

---

### Facility Information

- **Name:** Central Washington Asphalt Plant, Inc.
- **ID:** Permit No. 577-00438
- **Max Emissions:**
  - PAHs: 0.000 bbl/hr
  - Naphthalene: 0.002 bbl/hr
  - Acenaphthene: 0.003 bbl/hr
  - Acenaphthylene: 0.000 bbl/hr
  - Fluoranthene: 0.000 bbl/hr
  - Pyrene: 0.000 bbl/hr
  - Benzo(a)pyrene: 0.000 bbl/hr
  - Benzo(b)fluoranthene: 0.000 bbl/hr

---

### Environmental Groups

- **PAHs**
  - Total Emission Rate: 0.3 bbl/hr
  - Meets Standard: Yes

---

### TAPs Emission Rates

- **PAHs**
  - Emission Rate: 0.3 bbl/hr

---

### Notes

- Emissions of PAHs are below the detection limit.
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### Facility Information

- **Name:** Central Washington Asphalt Plant, Inc.
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  - Acenaphthylene: 0.000 bbl/hr
  - Fluoranthene: 0.000 bbl/hr
  - Pyrene: 0.000 bbl/hr
  - Benzo(a)pyrene: 0.000 bbl/hr
  - Benzo(b)fluoranthene: 0.000 bbl/hr

---

### Environmental Groups

- **PAHs**
  - Total Emission Rate: 0.3 bbl/hr
  - Meets Standard: Yes

---

### TAPs Emission Rates

- **PAHs**
  - Emission Rate: 0.3 bbl/hr

---

### Notes

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  - PAHs: 0.000 bbl/hr
  - Naphthalene: 0.002 bbl/hr
  - Acenaphthene: 0.003 bbl/hr
  - Acenaphthylene: 0.000 bbl/hr
  - Fluoranthene: 0.000 bbl/hr
  - Pyrene: 0.000 bbl/hr
  - Benzo(a)pyrene: 0.000 bbl/hr
  - Benzo(b)fluoranthene: 0.000 bbl/hr

---

### Environmental Groups

- **PAHs**
  - Total Emission Rate: 0.3 bbl/hr
  - Meets Standard: Yes

---

### TAPs Emission Rates

- **PAHs**
  - Emission Rate: 0.3 bbl/hr

---

### Notes

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  - PAHs: 0.000 bbl/hr
  - Naphthalene: 0.002 bbl/hr
  - Acenaphthene: 0.003 bbl/hr
  - Acenaphthylene: 0.000 bbl/hr
  - Fluoranthene: 0.000 bbl/hr
  - Pyrene: 0.000 bbl/hr
  - Benzo(a)pyrene: 0.000 bbl/hr
  - Benzo(b)fluoranthene: 0.000 bbl/hr

---

### Environmental Groups

- **PAHs**
  - Total Emission Rate: 0.3 bbl/hr
  - Meets Standard: Yes

---

### TAPs Emission Rates

- **PAHs**
  - Emission Rate: 0.3 bbl/hr

---

### Notes

- Emissions of PAHs are below the detection limit.
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---

### Facility Information

- **Name:** Central Washington Asphalt Plant, Inc.
- **ID:** Permit No. 577-00438
- **Max Emissions:**
  - PAHs: 0.000 bbl/hr
  - Naphthalene: 0.002 bbl/hr
  - Acenaphthene: 0.003 bbl/hr
  - Acenaphthylene: 0.000 bbl/hr
  - Fluoranthene: 0.000 bbl/hr
  - Pyrene: 0.000 bbl/hr
  - Benzo(a)pyrene: 0.000 bbl/hr
  - Benzo(b)fluoranthene: 0.000 bbl/hr

---

### Environmental Groups

- **PAHs**
  - Total Emission Rate: 0.3 bbl/hr
  - Meets Standard: Yes

---

### TAPs Emission Rates

- **PAHs**
  - Emission Rate: 0.3 bbl/hr

---

### Notes

- Emissions of PAHs are below the detection limit.
- All other pollutants are below the screening emission limits.

---

### Facility Information

- **Name:** Central Washington Asphalt Plant, Inc.
- **ID:** Permit No. 577-00438
- **Max Emissions:**
  - PAHs: 0.000 bbl/hr
  - Naphthalene: 0.002 bbl/hr
  - Acenaphthene: 0.003 bbl/hr
  - Acenaphthylene: 0.000 bbl/hr
  - Fluoranthene: 0.000 bbl/hr
  - Pyrene: 0.000 bbl/hr
  - Benzo(a)pyrene: 0.000 bbl/hr
  - Benzo(b)fluoranthene: 0.000 bbl/hr

---

### Environmental Groups

- **PAHs**
  - Total Emission Rate: 0.3 bbl/hr
  - Meets Standard: Yes

---

### TAPs Emission Rates

- **PAHs**
  - Emission Rate: 0.3 bbl/hr

---

### Notes

- Emissions of PAHs are below the detection limit.
- All other pollutants are below the screening emission limits.
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>TOTAL of</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Emission Rates from A</td>
<td>B,C &amp; D</td>
<td>(PM/yr)</td>
</tr>
<tr>
<td></td>
<td>TAPs Emission Unit (EU)</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Increase</td>
<td>(DAH)</td>
<td></td>
</tr>
<tr>
<td>Non-PM10 NAP</td>
<td>1.695-01</td>
<td>1.37</td>
<td>No</td>
</tr>
<tr>
<td>a) Benzolene (benzene-1,3,5)</td>
<td>4.07E-04</td>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>a) Carbon tetrachloride</td>
<td>8.11E+02</td>
<td>217</td>
<td>No</td>
</tr>
<tr>
<td>Chloroform (chloroform)</td>
<td>1.80E-01</td>
<td>0.887</td>
<td>No</td>
</tr>
<tr>
<td>Dioxins</td>
<td>7.48E-01</td>
<td>19.3</td>
<td>No</td>
</tr>
<tr>
<td>H-Furan</td>
<td>1.76E+01</td>
<td>1.20E+01</td>
<td>No</td>
</tr>
<tr>
<td>Halogenated solvents (toxic halogenated solvents)</td>
<td>5.26E-01</td>
<td>1.03E+01</td>
<td>No</td>
</tr>
<tr>
<td>HTPB</td>
<td>0.00E+00</td>
<td>0.00</td>
<td>No</td>
</tr>
<tr>
<td>Ethylmethacrylate (ethyl methacrylate)</td>
<td>1.57E-01</td>
<td>0.07</td>
<td>No</td>
</tr>
<tr>
<td>L, L, Trichloroethene (trichloroethene)</td>
<td>3.21E-02</td>
<td>1.50E-02</td>
<td>No</td>
</tr>
<tr>
<td>Chloroform (chloroform)</td>
<td>0.00E+00</td>
<td>17.30</td>
<td>No</td>
</tr>
<tr>
<td>Tetramethylurea</td>
<td>2.54E-02</td>
<td>0.01</td>
<td>No</td>
</tr>
<tr>
<td>H-p-tolvan</td>
<td>0.00E+00</td>
<td>0.00</td>
<td>No</td>
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<tr>
<td>Pheny</td>
<td>0.55E-01</td>
<td>1.27</td>
<td>No</td>
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</table>

Non-PM10 Organic Compounds

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>TOTAL of</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Emission Rates from A</td>
<td>B,C &amp; D</td>
<td>(PM/yr)</td>
</tr>
<tr>
<td></td>
<td>TAPs Emission Unit (EU)</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Increase</td>
<td>(DAH)</td>
<td></td>
</tr>
</tbody>
</table>

a) For NAP facilities subject to NSPS (40 CFR 60, Subpart B, PTE includes fugitive emissions of PM from load-out, site filling & storage tank operations.

b) IEAP: Total Air Pollutant. 50.83.01.05 or .238
Facility: Central Washington Asphalt Paving, Inc.  
7162009 14:19  Permit/Facility ID: F-20080019  777-0043
Max Hourly Production: 436 Tbr  96% Tbr in Aggregate & RAP = 384 Tbr  
Max Daily Production: 3,000 Tbr/day  96% Tbr in Aggregate & RAP = 288,000 Tbr/year

Fine PM emitted from RAP use is negligible (see assumptions on page 1 of this spreadsheet). Worst case emissions are for 0% RAP.

**Agggregates Front-end Loader Drop Point**

\[ E = k \left( \frac{0.0032}{U} \right)^{13} \left[ \frac{\text{z}}{6.62} \right]^{13} = 1.92E-03 \]

1.92E-03 lb/ton for PM10  
1.18E-04 lb/ton for PM2.5

- \( k \) = particle size multiplier 0.74 for PM 0.35 for PM10 0.023 for PM2.5  
- \( U \) = mean wind speed 10 mph  
- \( m \) = moisture content 5%

**Wind Speed Variation Factors for AERMOD modeling**

<table>
<thead>
<tr>
<th>Wind Category</th>
<th>Upper wind speed (mph)</th>
<th>Avg wind speed (mph)</th>
<th>Lower wind speed (mph)</th>
<th>E_d (avg mph)</th>
<th>F_d (avg mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 1</td>
<td>1.54</td>
<td>0.77</td>
<td>1.72</td>
<td>7.77E-05</td>
<td>0.1911</td>
</tr>
<tr>
<td>Cat 2</td>
<td>3.99</td>
<td>2.33</td>
<td>5.38</td>
<td>3.25E-04</td>
<td>0.4501</td>
</tr>
<tr>
<td>Cat 3</td>
<td>5.14</td>
<td>4.12</td>
<td>9.30</td>
<td>8.97E-04</td>
<td>0.8720</td>
</tr>
<tr>
<td>Cat 4</td>
<td>8.23</td>
<td>6.69</td>
<td>14.66</td>
<td>1.35E-03</td>
<td>1.50E-03</td>
</tr>
<tr>
<td>Cat 5</td>
<td>10.80</td>
<td>8.33</td>
<td>21.28</td>
<td>2.04E-03</td>
<td>2.673</td>
</tr>
<tr>
<td>Cat 6</td>
<td>14.00</td>
<td>12.40</td>
<td>27.74</td>
<td>2.68E-03</td>
<td>3.787</td>
</tr>
</tbody>
</table>

**PM10**  
PM10: 384 Tbr  2 Transfer Points

**PM2.5**  
PM2.5: 384 Tbr  2 Transfer Points

**Conveyor and Scoring Screen Emissions**

\[ \text{PM (total)} = 1.42E-03 \]  
\[ \text{PM (total)} = 7.68E-04 \]

**PM10**  
PM10: 384 Tbr  2 Transfer Points

**Conveyor and Scoring Screen Emissions**

**Agggregates Weight Transfer**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor (lb/min)</th>
<th>Emissions (lb/hr) 1-hr Average</th>
<th>Emissions (lb/hr) 24-hr Average</th>
<th>Emissions (T/hr)</th>
<th>Emissions (lb/hr) Annual Average</th>
<th>Emissions (lb/hr) Annual Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM (total)</td>
<td>0.0015</td>
<td>0.064</td>
<td>0.203</td>
<td>0.200</td>
<td>0.044</td>
<td>4.05E-03</td>
</tr>
<tr>
<td>PM10 (total)</td>
<td>0.0015</td>
<td>0.064</td>
<td>0.203</td>
<td>0.200</td>
<td>0.044</td>
<td>4.05E-03</td>
</tr>
<tr>
<td>PM2.5 (total)</td>
<td>0.0015</td>
<td>0.064</td>
<td>0.203</td>
<td>0.200</td>
<td>0.044</td>
<td>4.05E-03</td>
</tr>
</tbody>
</table>

**Scoring Screen & Transfer Points**