



# Linn County Public Health Air Quality Division

## Air Quality Construction Permit for a Hot Mix Asphalt Plant

Permit No.	Project No.	Description	Date	Testing
				No

**Plant Number:** \_\_\_\_\_

\_\_\_\_\_

Under the Direction of the Air Pollution Control Officer

Department Use Only

### Permit Holder

**Company:** \_\_\_\_\_

**Contact Person:**

**Responsible Party:**

	(name)	
	(title)	
	(street)	
	(city, state, zip)	
	(telephone)	
	(e-mail address)	

### Permitted Equipment

**Equipment Location or Staging Area:** \_\_\_\_\_ (street)

\_\_\_\_\_ (city, state, zip)

Is the Equipment Portable?     Yes    No

IDNR Plant Number (if known): \_\_\_\_\_

## TYPE OF EQUIPMENT BEING PERMITTED

This permit is only applicable to a "hot mix asphalt plant"<sup>1</sup> not otherwise excluded or in a prohibited location. Excluding exempt equipment, these plants are comprised only of a combination of the following systems:

- i. Systems for drying aggregate.
- ii. Systems for receiving, storing, and transferring virgin aggregate.
- iii. Systems for receiving, screening, storing, and transferring non-virgin aggregate.
- iv. Systems for receiving, screening, storing, and transferring mineral filler, reclaimed asphalt pavement (RAP), and recycled asphalt shingles (RAS).
- v. Systems for receiving storing, and transferring asphalt cement.
- vi. Systems for mixing aggregate with asphalt cement.
- vii. Systems for the storing and dispensing of hot mix asphalt.
- viii. Systems for the storing and dispensing of asphalt cement and fuel.
- ix. Associated emission control systems.
- x. Systems for the loading, transfer, and storage of materials used or produced by emission control systems.
- xi. Power sources used solely to operate the systems noted above (such as diesel generators and hot oil heaters)
- xii. Incidental heating and materials storage associated with the operation of the systems noted above.

<sup>1</sup> "Hot mix asphalt plant," for the purposes of this permit, means any portable drum mix plant producing hot or warm mix asphalt.<sup>2</sup>

<sup>2</sup> "Hot mix asphalt" means a material made from a mixture of aggregate and liquid asphalt cement.

### Exclusions

The following plants shall not be covered under this permit:

- A. A hot mix asphalt plant at which crushing or grinding of nonmetallic minerals occurs, including that embedded in RAP.
- B. A batch mix asphalt plant.
- C. A hot mix asphalt plant already subject to an existing air quality construction or operating permit, unless those permits are revoked concurrently with the start of coverage under this permit for the facility.
- D. A hot mix asphalt plant located on the same property at which remission sources are covered by an air quality construction permit, other than another hot mix asphalt plant, aggregate processing plant, liquid storage tanks, or concrete batch plant. The hot mix asphalt plant shall be separated from the other hot mix asphalt plant, aggregate processing plant, or concrete batch plant by the setback distances required in Condition 5 of this permit.

### Types of Facility Being Permitted

Drum mix, hot asphalt plants using this template are subject to only one of the six categories of operating conditions listed below. Each category is based on a specific set of operational conditions particular to the plant being permitted. Therefore, please select the set of operating conditions from the list below that you will comply with and follow all the corresponding operating limits in Condition 5 of this permit. The General Requirements in Condition 5 apply to all hot mix asphalt plants using this template.

Group #	Dryer Fuel	Control	Temperature of Hot Mix Asphalt	Operating Limits and Requirements
<input type="checkbox"/> 1	Liquid / Gas	Uncontrolled	At or below 325 degrees Fahrenheit	Condition 5, 5a, and 5b
<input type="checkbox"/> 2	Liquid / Gas	Uncontrolled	At or below 340 degrees Fahrenheit	Condition 5, 5a, and 5c
<input type="checkbox"/> 3	Liquid / Gas	Controlled	At or below 340 degrees Fahrenheit	Condition 5, 5a, and 5d
<input type="checkbox"/> 4	Gas	Uncontrolled	At or below 325 degrees Fahrenheit	Condition 5, 5e, and 5f
<input type="checkbox"/> 5	Gas	Uncontrolled	At or below 340 degrees Fahrenheit	Condition 5, 5e, and 5g
<input type="checkbox"/> 6	Gas	Controlled	At or below 340 degrees Fahrenheit	Condition 5, 5e, and 5h

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**PERMITTEE CERTIFICATION**

I certify that, based on information and belief formed after reasonable inquiry, the enclosed documents, including the attachments, are true, accurate, and complete and that legal entitlement to install and operate the equipment covered by the permit application and on the property identified in the permit application has been obtained.

I certify that this permit, as drafted, is for (and only for) a "hot mix asphalt plant" not otherwise "excluded" as noted above. I certify that there are no physical or chemical characteristics or pollutants in the air contaminants emitted for this facility which are atypical of this type of facility.

**I certify that the terms and conditions of this permit will be met at all times.**

\_\_\_\_\_ (Responsible Party – Signature)

\_\_\_\_\_ (Title) \_\_\_\_\_ (Date)



## PERMIT CONDITIONS

### 1. Emission Limits

The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

Pollutant	lb/hr <sup>1</sup>	tons/yr <sup>2</sup>	Other Limits	Reference/Basis
Particulate Matter (PM) – Federal	NA	NA	0.04 gr/dscf <sup>3</sup>	40 CFR §60.92(a)(1)
Particulate Matter (PM) – State	NA	NA	0.15 gr/dscf <sup>4</sup>	LCCO Sec. 10-62(a)(2)
	NA	NA	0.1 gr/dscf <sup>5</sup>	LCCO Sec. 10-62(a)
	NA	NA	0.6 lb/MMBtu <sup>6</sup>	LCCO Sec. 10-61(b)(1)
Opacity	NA	NA	20% <sup>3</sup>	40 CFR §60.92(a)(2)
	NA	NA	20% <sup>7,8</sup>	LCCO Sec. 10-60(a)
Sulfur Dioxide (SO <sub>2</sub> )	NA	NA	1.5 lb/MMBtu <sup>9</sup>	LCCO Sec. 10-65(1)"b"
	NA	NA	500 ppm <sub>v</sub> <sup>10</sup>	LCCO Sec. 10-65(2)

<sup>1</sup> The emission limit is expressed as the average of three (3) runs.

<sup>2</sup> The emission limit is based on a twelve (12) month rolling total.

<sup>3</sup> This standard applies to all facilities subject to NSPS Subpart I, as specified in 40 CFR §60.90.

<sup>4</sup> This standard applies to all facilities not subject to NSPS Subpart I.

<sup>5</sup> This standard applies to all emission units from the hot mix asphalt plant except fuel-combustion sources or those subject to the emission standards in NSPS Subpart I or LCCO Sec. 10-62(a)(2).

<sup>6</sup> This standard applies to all emission units combusting fuel for indirect heat or power generation.

<sup>7</sup> An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>8</sup> The facility shall take all reasonable precautions to prevent the discharge of visible emissions of fugitive dust beyond the lot line of the property on which the plant is located. A list of reasonable precautions is detailed in Attachment A to this permit.

<sup>9</sup> This standard applies to the emissions of sulfur dioxide from the combustion of liquid fuels.

<sup>10</sup> This standard applies to all other processes capable of emitting sulfur dioxide other than the combustion of liquid fuels.

### 2. Compliance Demonstration(s)

#### Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – Federal	Performance test <sup>1</sup>	Once	1 hour	40 CFR 60, Appendix A, Method 5
PM – State	None	NA	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
Opacity	Performance test <sup>1</sup>	Once	1 hour	40 CFR 60, Appendix A, Method 9
SO <sub>2</sub>	None	NA	1 hour	40 CFR 60, Appendix A, Method 6C
Arsenic	Analytical test	Representative <sup>2</sup>	NA	EPA Method 6010C
Cadmium	Analytical test	Representative <sup>2</sup>	NA	EPA Method 6010C
Chromium	Analytical test	Representative <sup>2</sup>	NA	EPA Method 6010C
Lead	Analytical test	Representative <sup>2</sup>	NA	EPA Method 6010C
PCBs	Analytical test	Representative <sup>2</sup>	NA	EPA Method 8082
Flash Point	Analytical test	Representative <sup>2</sup>	NA	ASTM D93
Total Halogens	Analytical test	Representative <sup>2</sup>	NA	EPA Method 9075M and 9214M

<sup>1</sup> A hot mix asphalt facility commencing construction or modification after June 11, 1973, shall comply with all stack testing requirements of New Source Performance Standards (NSPS) Subpart I (*Standards of Performance for Hot Mix Asphalt Facilities*), as adopted by reference in LCCO Sec. 10-62(b)(6). All affected sources subject to the standards in 40 CFR §60.92 shall be tested according to the methods and procedures in 40 CFR §60.93.

<sup>2</sup> Each used oil fuel delivery shall be tested to demonstrate compliance with Condition 5.J, 5.K, and 5.L. If performed by the used oil generator, records of the testing results shall be maintained at the hot mix asphalt plant for three (3) years.

## 2. Compliance Demonstration(s) (Continued)

**If an initial stack test is specified in the "Compliance Demonstration Table,"** the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.
- Within ninety (90) days of the issuance of this permit if there is no physical modification to any emission units or control equipment.

**If any additional stack testing beyond an initial test (i.e. quarterly, semi-annual, annual, etc.) is required in "Compliance Demonstration Table,"** the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 as specified in the "Compliance Demonstration Table." See Conditions 12.A.(4) and 12.B.(5) for notification and reporting requirements.

If stack testing is required, the owner or the owner's authorized agent shall use the test method and run time listed in the "Compliance Demonstration Table" unless another testing methodology is approved by the Department prior to testing.

Each emissions compliance test must be approved by the Department. Unless otherwise specified by the Department, each test shall consist of three (3) separate runs. The arithmetic mean of three (3) acceptable test runs shall apply for compliance, unless otherwise indicated by the Department.

Per LCCO Sec. 10-70(e)(2), at the Department's request, a pretest meeting shall be held not later than five (5) days before the owner or operator conducts the compliance demonstration. A testing protocol shall be submitted to the Department no later than fifteen (15) days before the owner or operator conducts the compliance demonstration. Representatives from the Department shall attend this meeting, along with the owner and the testing firm, if any. It shall be the responsibility of the owner to coordinate and schedule the pretest meeting. A representative of the Department shall be allowed to witness the test(s). The Department shall reserve the right to impose additional, different, or more detailed testing requirements.

The owner shall be responsible for the installation and maintenance of test ports. The unit(s) being sampled shall be operated in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which this unit(s) will be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the Department that this unit(s) has been physically altered so that capacity cannot be exceeded, or the Department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the Department to determine whether this unit(s) is in compliance.

## 3. Emission Point Characteristics

The number of emission units at the facility shall conform to the following list.

- A. Any number of storage piles for cold aggregate.
- B. Any number of cold aggregate bins and conveyors; only one (1) front end loader may be used to load the cold aggregate bins at any one time; and only one (1) conveyor system may be used to transport aggregate to the dryer at any one time.
- C. Any number of RAP bins and conveyors; only one (1) front end loader may be used to load the RAP bins at any one time; and only one (1) conveyor system may be used to transport RAP to the dryer at any one time.
- D. A maximum of three (3) screens.
- E. A maximum of ten (10) transfer points located between the cold aggregate bins and the dryer.
- F. A maximum of one (1) dryer. The dryer shall have a maximum heat input rating of 150 million Btu per hour (MMBtu/hr) or less.
- G. Any number of material storage tanks.
- H. Any number of silos or bins and conveyors used to transport and store hot mix asphalt; only one (1) silo or bin may be loaded at any one time; and only one (1) conveyor system may be used to transport hot mix asphalt to the silos or bins at any one time.
- I. A maximum of one (1) truck loadout point for hot mix asphalt shall be used at any one time.

### 3. Emission Point Characteristics (Continued)

- J. A maximum of one (1) hot oil heater may be located at the plant. The heater shall have a maximum heat input rating of 5.0 MMBtu/hr.
- K. A maximum of one (1) electric diesel generator with a brake horsepower (bhp) rating of less than 1,350 (measured at the shaft) may be used to power the plant.

The stack characteristics of the emission points at the facility shall conform to the following:

- L. The discharge style for the dryer baghouse, generator, and hot oil heater exhaust stacks (emission points) must be vertical, unobstructed.
- M. Facilities combusting liquid or gaseous fuels in the dryer, with or without control on the truck loading, and producing hot mix asphalt at a mix temperature at or below 340 degrees Fahrenheit (Group 1, shall comply with the following stack height requirements:
- i. The minimum stack height of the dryer baghouse shall be at least 40 feet above grade.
  - ii. The minimum stack height of the generator shall be at least 25 feet above grade.
  - iii. The minimum stack height of the hot oil heater shall be at least 12 feet above grade.
- N. Facilities combusting only gaseous fuels in the dryer, with or without control on the truck loading, and producing hot mix asphalt at a mix temperature at or below 340 degrees Fahrenheit shall comply with the following stack height requirements:
- i. The minimum stack height of the dryer baghouse shall be at least 35 feet above grade.
  - ii. The minimum stack height of the generator shall be at least 20 feet above grade.
  - iii. The minimum stack height of the hot oil heater shall be at least 10 feet above grade.

It shall be the owners responsibility to ensure that construction conforms to the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a permit amendment, if required. A concrete batch plant not meeting any of the requirements described above shall apply for a permit to construct as outlined in LCCO Sec. 10-58(b)

### 4. Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

Applies	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
Yes	A	General Conditions	NA	10-62(b)	§60.1 – §60.19
	I	Nonmetallic Mineral Processing Plants	Hot mix asphalt	10-62(b)(6)	§60.90 – §60.93

The following subparts may apply to the emission unit(s) in this permit (check the box next to the NSPS subparts that apply):

Applies	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
<input type="checkbox"/>	IIII	Stationary Compression Ignition Internal Combustion Engines	Footnote 1	10-62(b)(77)	§60.4200 – §60.4219
<input type="checkbox"/>	JJJJ	Stationary Spark Ignition Internal Combustion Engines	Footnote 2	10-62(b)(78)	§60.4230 – §60.4248
<input type="checkbox"/>	K	Storage Vessels for Petroleum Liquids (6/11/73 – 5/18/78)	Footnote 3	10-62(b)(28)	§60.110 – §60.113
<input type="checkbox"/>	Ka	Storage Vessels for Petroleum Liquids (5/18/78 – 7/23/84)	Footnote 4	10-62(b)(29)	§60.110a – §60.115a
<input type="checkbox"/>	Kb	Storage Vessels for Petroleum Liquids (7/23/84 – Present)	Footnote 5	10-62(b)(56)	§60.110b – §60.117b

**4. Federal Standards (Continued)**

<sup>1</sup> The following compression ignition (diesel) generators are subject to NSPS Subpart IIII of 40 CFR Part 60 (*Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*): (1) Generators ordered after July 11, 2005 and manufactured after April 1, 2006; (2) Generators modified or reconstructed after July 11, 2005; and (3) Model year 2007 and later generators with a displacement less than 30 liters per cylinder.

<sup>2</sup> The following spark ignition (gasoline and natural gas) generators are subject to NSPS Subpart JJJJ of 40 CFR Part 60 (*Standards of Performance for Stationary Spark Ignition Internal Combustion Engines*): (1) Generators with a maximum power ≥ 500 hp manufactured on or after July 1, 2007 (except lean burn engines with a maximum power ≥ 500 hp and ≤ 1,350 hp); (2) Lean burn generators with a maximum power ≥ 500 hp and ≤ 1,350 hp manufactured on or after January 1, 2008; (3) Generators with a maximum power < 500 hp on or after July 1, 2008; (4) Emergency generators with a maximum power ≥ 25 hp; and (5) Generators modified or reconstructed after June 12, 2006.

<sup>3</sup> Applies to storage tanks constructed, reconstructed, or modified after June 11, 1973 and prior to May 19, 1978 and have a minimum storage capacity of 40,000 gallons.

<sup>4</sup> Applies to storage tanks constructed, reconstructed, or modified after May 18, 1978 and prior to July 23, 1984 and have a minimum storage capacity of 40,000 gallons.

<sup>5</sup> Applies to storage tanks constructed, reconstructed, or modified after July 23, 1984 and have a minimum storage capacity of 19,813 gallons storing a liquid with a maximum true vapor pressure greater than or equal to 15 kPa or if the storage tank is greater than 39,890 gallons storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa.

NOTE: The absence of the inclusion of any NSPS requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NSPS conditions.

A. National Emission Standards for Hazardous Air Pollutants (NESHAP):

The following subparts **may** apply to the emission unit(s) in this permit (check the box next to the NESHAP subparts that apply):

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
<input type="checkbox"/>	ZZZZ	Stationary Reciprocating Internal Combustion Engines	Footnote 6	10-62(d)(104)	§63.6580 – §63.6675

<sup>6</sup> All stationary generators are subject to NESHAP Subpart ZZZZ of 40 CFR Part 63 (*National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*); however, generators subject to NSPS Subpart IIII or JJJJ may comply with the requirements by complying with the applicable NSPS requirements.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

**5. Operating Requirements with Associated Monitoring and Recordkeeping**

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of three (3) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. This facility shall follow all of the general requirements in Condition 5a and the operating limits in one of the six specific categories below. The permittee shall choose the category of limits based on the specific operating conditions particular to this plant, as listed on page three (3) of this permit.

**Operating Requirements / Recordkeeping for all Hot Mix Asphalt Plants**

*General Requirements*

A. The owner or operator shall control the particulate emission from the dryer with a baghouse. The owner or operator shall properly operate and maintain equipment to monitor the differential pressure across the baghouse while the dryer is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's specifications and good operating practices. The owner or operator shall monitor and record the differential pressure across the baghouse on a daily basis. If the differential pressure is observed outside of the normal operational ranges, the facility shall take immediate corrective action and record the incident and corrective actions taken.



**Operating Requirements / Recordkeeping for all Hot Mix Asphalt Plants (Continued)**

- B. All process, control, and monitoring equipment shall be maintained according to the manufacturer's specifications and good maintenance specials. The owner or operator shall record the date and description of all maintenance completed on the process, control, and monitoring equipment at this facility, including bag replacements.
- C. All hot mix asphalt plants covered under this permit are required to employ the best management practices outlined in Attachment A of this permit to reasonably prevent the discharge of fugitive dust from the facility. The owner or operator shall document all best management practices used at the facility to minimize fugitive dust emissions.
- D. The owner or operator shall not produce more than 450 tons of hot mix asphalt per hour or more than 400,000 tons of hot mix asphalt per 12-month rolling period. The owner or operator shall monitor and record the hourly rate of hot mix asphalt production and calculate and record a rolling 12-month rolling total.
- E. The owner or operator shall install and maintain a temperature recording device to measure and continuously record the process temperature of the hot mix asphalt at the exit of the dryer. The owner or operator shall monitor and record the temperature of the hot mix asphalt at the exit of the dryer continuously whenever the dryer is in operation.
- F. The owner or operator shall not process recycled asphalt shingles (RAS) in the dryer that is a regulated asbestos containing material (RACM), as defined in 40 CFR §61.141. RACM is a material that is regulated by 40 CFR Part 61, Subpart M (*National Emission Standard for Asbestos*). See Appendix A to Subpart M, "Interpretive Rule governing Roof Removal Operations," for what type of roofing projects are regulated by the asbestos NESHAP. The owner or operator shall maintain the following records on the RAS received at the plant:
  - i. Name(s) of the supplier(s) of the RAS; and
  - ii. Documentation from the supplier(s) that the RAS is not a RACM, as defined in 40 CFR §61.141.
- G. If the owner or operator has a diesel internal combustion engine subject to NSPS Subpart IIII or NESHAP Subpart ZZZZ, the owner or operator must also follow the requirements from those subparts, including the monitoring, notification, reporting, and recordkeeping requirements. The owner or operator shall also follow the applicable notification and reporting requirements of 40 CFR §60.7 and 40 CFR §60.19.

**Fuel Use Requirements**

- H. The total amount of liquid fuel (fuel oil, diesel fuel, used oil, or residual fuel) combusted in the dryer shall not exceed 3,300,000 gallons per rolling 12-month period. The owner or operator shall maintain a record of the maximum heat input rating of the dryer, in MMBtu/hr. The owner or operator shall monitor and record the amount of liquid fuel combusted in the dryer per month and to calculate and record the 12-month rolling total.
- I. The maximum sulfur content of any #3, #4, #5, or #6 fuel oil, used oil or residual fuel (blends of used oil and #6 fuel oil) combusted in the dryer shall be equal to or less than 0.8%, by weight. The owner or operator shall perform an analysis to determine the sulfur content of each shipment of oil received. Alternatively, the owner or operator may maintain a fuel certification from the supplier to certify the sulfur content complies with this Condition.
- J. Any used oil combusted in the dryer shall not exceed the limits specified in Table 1 of 40 CFR §279.11, as amended on May 3, 1993 (reproduced below), using analytical methods specified pursuant to 40 CFR Part 279. The owner or operator shall maintain records that any used oil combusted in the dryer meets the requirements of on-spec used oil as specified in 40 CFR §279.11 and in 40 CFR §761.20(e).

**Table 1 – Used Oil not Exceeding any Allowable Level Shown Below is not Subject to this Part when Burned for Energy Power<sup>1</sup>**

<b>Constituent / Property</b>	<b>Allowable Level</b>
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Flash Point	100 °F minimum
Total Halogens	4,000 ppm maximum <sup>2</sup>

<sup>1</sup> The allowable levels do not apply to mixtures of used oil and hazardous waste that continue to be regulated as hazardous waste (see 40 CFR §279.10(b)).

<sup>2</sup> Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR §279.10(b)(1). Such used oil is subject to Subpart H of Part 266 [of Title 40], rather than this [Part 279] when burned for energy recovery, unless the presumption of mixing can be successfully rebutted.

- K. Any used oil combusted in the dryer with a total halogen concentration of  $\geq 1,000$  ppm and  $\leq 4,000$  ppm must be properly rebutted as not containing a listed halogenated hazardous waste, per 40 CFR §279.63.

**Operating Requirements / Recordkeeping for all Hot Mix Asphalt Plants (Continued)**

- L. Any used oil combusted in the used oil furnace shall not exceed 2 ppm of polychlorinated biphenyls (PCBs) using methods specified in 40 CFR §761.20(e)(2).
- M. The owner or operator shall only combust #1 or #2 fuel oil, diesel fuel, natural gas, or propane in the hot oil heater. The owner or operator shall maintain a record of the maximum heat input rating, in MMBtu/hr, and the type of fuel combusted in the hot oil heater.
- N. The maximum sulfur content of any #1 or #2 fuel oil or diesel fuel combusted in the generator engine shall be equal to or less than 15 ppm (0.0015%, by weight). The maximum sulfur content of all other fuels combusted at the site shall be equal to or less than 0.5%, by weight, per LCCO Sec. 10-65(1)"c".

*Recordkeeping Requirements*

- O. The owner or operator shall monitor and record the startup and shutdown times for the plant and the number of hours the plant operated each day.
- P. The owner or operator shall maintain records on where the plant operates in Iowa. This shall include the county and distance between the hot mix asphalt loadout emission unit and the nearest property line.
- Q. The owner or operator shall maintain a record of the horsepower rating, in bhp, and the Tier rating of the internal combustion engine used to power the plant.

**5a. Requirements Common to Group 1, Group 2, and Group 3 Facilities**

- R. The dryer may be fired by #1, #2, #3, #4, #5, or #6 fuel oil, diesel fuel, natural gas, propane, used oil, or residual fuel (blends of used oil and #6 fuel oil).
- S. A diesel internal combustion engine used to power the plant, if used, shall be certified to the U.S. Environmental Protection Agency's Tier 2, Tier 3, interim Tier 4, or final Tier 4 standards for compression ignition engines, in accordance with 40 CFR Part 89 and 40 CFR Part 1039.

**5b. Requirements Specific to Group 1 Facilities**

- T. The owner or operator shall operate the plant a maximum of 14 hours per day.
- U. The hot mix asphalt truck loadout emission unit shall be located a minimum of 200 feet from any property line if using enclosed asphalt storage silo(s)<sup>1</sup> or 250 feet from any property line if using silo(s) open to the atmosphere.
- V. The temperature of the hot mix asphalt at the exit of the dryer shall be maintained at or below 325 degrees Fahrenheit.

<sup>1</sup> An enclosed asphalt storage silo is one that is closed to the atmosphere except when being filled or unloaded.

**5c. Requirements Specific to Group 2 Facilities**

- W. The owner or operator shall operate the plant a maximum of 14 hours per day.
- X. The hot mix asphalt truck loadout emission unit shall be located a minimum of 500 feet from any property line if using enclosed asphalt storage silo(s)<sup>1</sup> or 600 feet if the using silo(s) open to the atmosphere.
- Y. The temperature of the hot mix asphalt at the exit of the dryer shall be maintained at or below 340 degrees Fahrenheit.

<sup>1</sup> An enclosed asphalt storage silo is one that is closed to the atmosphere except when being filled or unloaded.

**5d. Requirements Specific to Group 3 Facilities**

- Z. The owner or operator shall operate the plant a maximum of 16 hours per day.
- AA. The truck loadout emission unit shall be located a minimum of 200 feet from any property line.
- BB. The temperature of the hot mix asphalt at the exit of the dryer shall be maintained at or below 340 degrees Fahrenheit.
- CC. The emissions from the silo filling and truck loadout operations must be captured and controlled.

**5e. Requirements Common to Group 4, Group 5, and Group 6 Facilities**

- DD. The dryer shall only be fired by natural gas or propane.
- EE. The asphalt storage silos and bins must be enclosed when not being filled or unloaded.
- FF. A diesel internal combustion engine used to power the plant, if used, shall be certified to the U.S. Environmental Protection Agency's Tier 4 standards for compression ignition engines, in accordance with 40 CFR Part 89 and 40 CFR Part 1039.

**5f. Requirements Specific to Group 4 Facilities**

- GG. The owner or operator shall operate the plant or maximum of 14 hours per day.
- HH. The truck loadout emission unit shall be located a minimum of 200 feet from any property line.
- II. The temperature of the hot mix asphalt at the exit of the dryer shall be maintained at or below 325 degrees Fahrenheit.

**5g. Requirements Specific to Group 5 Facilities**

- JJ. The owner or operator shall operate the plant a maximum of 16 hours per day.
- KK. The truck loadout emission unit shall be located a minimum of 500 feet from any property line.
- LL. The temperature of the hot mix asphalt at the exit of the dryer shall be maintained at or below 340 degrees Fahrenheit.

**5h. Requirements Specific to Group 6 Facilities**

- MM. The temperature of the hot mix asphalt at the exit of the dryer shall be maintained at or below 340 degrees Fahrenheit.

If the facility has a diesel internal combustion engine subject to New Source Performance Standards (NSPS) Subpart IIII or National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ, the owner or operator must also follow the requirements from those subparts.

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**6. Continuous Emission Monitoring Systems (CEMS)**

Continuous emission monitoring is not required by this permit at this time.

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**7. Department Review**

This permit is issued under the authority of Linn County Code of Ordinances (LCCO) Sec. 10-58. The proposed equipment has been evaluated for conformance with LCCO Chapter 10 Article III, the Iowa Code Chapter 455B; 567 IAC Chapters 20 – 35; and 40 Code of Federal Regulations (CFR) Parts 51, 52, 60, 61, and 63 and has the potential to comply. This permit is issued based on information submitted by the applicant. Any misinformation, false statements or misrepresentations by the applicant or by the applicant’s representative(s) shall cause this permit to be void.

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. The Department assumes no liability, directly or indirectly, for any loss due to damage to persons or property caused by, resulting from, or arising out of the design, installation, maintenance or operation of the proposed equipment.

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**8. Owner and Operator Responsibility**

This permit is for the construction and operation of specific emission unit(s), control equipment, and emission point as described in this permit and in the application for this permit. The permit holder, owner, and operator of the facility shall assure that the installation of the equipment listed in this permit conforms to the design in the application (i.e. type, maximum rated capacity, etc.). No person shall construct, install, reconstruct or alter this emission unit(s), control equipment, or emission point without the required amended permit.

Any owner or operator of the specified emission unit(s), control equipment, or emission point, including any person who becomes an owner or operator subsequent to the date on which this permit is issued, is responsible for assuring that the installation, operation, and maintenance of the equipment listed in this permit is in compliance with the provisions of this permit and all other applicable requirements and that adequate operation and maintenance is provided to ensure that no condition of air pollution is created.

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## 9. Transferability

Unless the equipment is portable, this permit is not transferable from one location to another or from one piece of equipment to another. See Condition 12.A.(2) for notification requirements for relocating portable equipment (LCCO Sec. 10-58(h)(1) and (2)).

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## 10. Construction

### A. General Requirements:

It is the owner's responsibility to ensure that construction conforms to the final plans and specifications as submitted.

In permit amendments, all provisions of the original permit remain in full force and effect unless they are specifically changed by the permit amendment. If a proposed project is not timely completed, the owner or operator shall seek a permit amendment in order to revert back to the most recent previous version of the permit. The previous, unchanged permit provisions are included in the amendment for your convenience only and are unappealable.

The permit or amendment shall become void if the construction or implementation of the proposed project, as it affects each emission point permitted herein, is not completed within ninety (90) days of the expiration date. If, after this time, a permit to operate has not been obtained, the said equipment shall be shut down and not operated until such time as the Air Pollution Control Officer grants a permit to operate the equipment. Extensions of the ninety (90) day adjustment period may be granted by the Air Pollution Control Officer for good cause.

### B. Changes to Plans and Specifications:

The owner or operator shall amend this permit or amendment prior to startup of the equipment if:

- (1) Any changes are made to the final plans and specifications submitted for the proposed project; or
- (2) This permit becomes void.

Changes to the final plans and specification shall include changes to plans and specifications for permitted equipment and control equipment and the specified operation thereof.

### C. Amended Permits:

The owner or operator may continue to act under the provisions of the previous permit for the affected emission unit(s) and emission point, together with any previous amendment to the permit, until one of the following conditions occurs:

- (1) The proposed project authorized by this amendment is completed as it affects the emission unit(s) and emission point permitted herein; or
  - (2) This current amendment becomes void.
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## 11. Excess Emissions

Per LCCO Sec. 10-67(a)(1), excess emissions during a period of startup, shutdown, or cleaning of control equipment are not a violation of the emission standard if it is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions except when another regulation applicable to the unit or process provides otherwise. Cleaning of control equipment, which does not require the shutdown of process equipment, shall be limited to one (1) six-minute period per one (1) hour period.

An incident of excess emissions other than the above is a violation and may be subject to criminal penalties according to LCCO Sec. 10-77(8). If excess emissions are occurring, either the control equipment causing the excess shall be repaired in an expeditious manner, or the process generating the emissions shall be shutdown within a reasonable period of time, as specified in LCCO Sec. 10-67.

An incident of excess emissions shall be orally reported by telephone, electronic mail or in person within eight (8) hours of, or at the start of, the first working day following the onset of the incident [See Permit Condition 12.B.(1)]. A written report of an incident of excess emissions shall be submitted as a follow-up to all required initial reports within seven (7) days of the onset of the upset condition [See Permit Condition 12.B.(2)].

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## 12. Notification, Reporting, and Recordkeeping

- A. The owner or operator shall furnish the Department the following written notifications:
- (1) Start of Construction Notice / Equipment Start-up Notice
    - (a) The date construction or modification is initiated postmarked within thirty (30) days following initiation of construction or modification.
    - (b) The actual date of startup, postmarked within fifteen (15) days following the start of operation.
  - (2) Per LCCO Sec. 10-58(e) when portable equipment for which a permit has been issued is to be transferred from one location to another, the Department shall be notified:
    - (a) At least fourteen (14) days before equipment relocation if the equipment will be located in a nonattainment area for the National Ambient Air Quality Standards (NAAQS) or a maintenance area for the NAAQS.
    - (b) At least seven (7) days before equipment relocation.
  - (3) Per LCCO Sec. 10-58(e)(3), a new owner shall notify the Department of the transfer of equipment ownership within thirty (30) days of the occurrence. The notification shall include the following information:
    - The date of ownership change; the name, address, and telephone number of the responsible official, the contact person, and the owner of the equipment both before and after the ownership change; and the Permit to Operate number(s) of the equipment changing ownership.
  - (4) Unless specified per a federal regulation, the owner or the owner's authorized agent shall notify the Department in writing not less than fifteen (15) days before a required test or performance evaluation of a continuous emission monitor [LCCO Sec. 10-70(e)]. The notification shall include:
    - The time; the place; the name of the person who will conduct the tests; and other information as required by the Department.
- If the owner or operator does not provide timely notice to the Department, the Department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with the applicable rules or permit conditions. Upon written request, the Department may allow a notification period of less than thirty fifteen (15) days.
- B. The owner or operator shall furnish the Department with the following reports:
- (1) Per LCCO Sec. 10-67(a)(2), an incident of excess emissions as defined in LCCO Sec. 10-55 shall be reported within eight (8) hours or at the start of the first working day following the onset of the incident. The report may be made by electronic mail, in person or by telephone.
  - (2) Per LCCO Sec. 10-67(a)(3), a written report of an incident of excess emissions as defined in LCCO Sec. 10-55 shall be submitted as a follow-up to all required initial reports to the Department within seven (7) days of the onset of the upset condition.
  - (3) Operation of this emission unit(s) or control equipment outside of those operating parameters specified in Permit Condition 5 in accordance to the schedule set forth in LCCO Sec. 10-67.
  - (4) Per LCCO Sec. 10-70(d), the owner or operator of any facility required to install a continuous monitoring system or systems shall provide quarterly reports to the Director, no later than thirty (30) calendar days following the end of the calendar quarter, on forms provided by the Director.
  - (5) Per LCCO Sec. 10-70(e)(2), a written compliance demonstration report for each compliance testing event, whether successful or not, postmarked not later than six (6) weeks after the completion of the test period unless other regulations provide for other notification requirements. In that case, the more stringent reporting requirement shall be met.
- C. All data, records, reports, documentation, construction plans, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives, for a minimum of three (3) years from the date of recording unless otherwise required by another applicable law (i.e. NSPS, NESHAP, etc.)
- D. Information regarding this permit including change in ownership and permit correspondence should be sent to the following address:

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Air Quality Division  
Linn County Public Health  
1240 26<sup>th</sup> Avenue Ct. SW  
Cedar Rapids, IA 52404  
Telephone: (319) 892-6000; Fax: (319) 892-6099

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**12. Notification, Reporting, and Recordkeeping (Continued)**

- E. Information regarding this permit including stack testing correspondence, and reports and notifications should be sent to the address listed in D. or the following email address:

[ComplianceReporting-Air@linncounty.org](mailto:ComplianceReporting-Air@linncounty.org)

## **ATTACHMENT A BEST MANAGEMENT PRACTICES FOR HOT MIX ASPHALT PLANTS**

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### **A.1. Best management Practices (BMP)**

All hot mix asphalt plants covered under this permit are required to employ best management practices (BMP) to reasonably prevent the discharge of fugitive dust from all process equipment, storage piles, and haul roads beyond the lot line of the property on which it is located. These BMP are examples of reasonable practices to minimize the generation of fugitive dust emissions.

#### **BMP on process equipment include, but are not limited to:**

- Limit drop heights of materials being transferred to or from any conveyor.
- Watering materials
- If using unenclosed elevated aggregate storage bins, do not load aggregate within two (2) feet of the top of the bin walls.

#### **BMP on haul roads include, but are not limited to:**

- Limiting truck speed on facility property.
- Watering and/or treating unpaved roadways with chemical dust suppressants.
- Watering and/or sweeping paved roadways.
- Immediately cleaning up or dampening all material spills on the roadways.

#### **BMP on storage piles include, but are not limited to:**

- Covering storage piles.
  - Watering storage piles.
  - Partially enclosing above-ground storage piles within three-sided enclosures.
  - Stock piles shall be kept as compact as possible.
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**END OF PERMIT**