# Bureau of Air Permit Section File Organization Cover Sheet

Source Name:	MAT Asphalt				
ID No.:	031600QKI				
Application No.:	17070024				
Category:	03M Air Permit - Construction				
Item Date:	10/26/2017				
Keyword:	• • • • •	*			
Comment:		*			
Part:	Choose Choose an item. Of an item.	*			

\* If applicable

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## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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217/785-1705

CONSTRUCTION PERMIT -- NSPS SOURCE

#### PERMITTEE

MAT Asphalt, LLC

Attn: Michael Tadin Jr. MBR

4450 South Morgan

Chicago, Illinois 60609

I.D. No.: 031600QKI Application No.: 17070024

Applicant's Designation: Date Received: July 17, 2017

Subject: Hot Mix Asphalt Plant Construction

Date Issued: October 26, 2017

Location: 2055 West Pershing Avenue, Chicago, Cook County

This permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of:

Five (5) 300 Ton Loadout Silos;

One (1) 400 Ton/hr Natural Gas/Distillate Oil-Fired Drum Mix Asphalt Plant Mixer controlled by a Baghouse with Knockout Box and Fabric Filter.

(3) 35,000-gallon Asphaltic Cement Storage Tanks;

(5) Asphalt Plant Conveyors;

(4) Crushing Plant Conveyors (one enclosed);

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Three (3) 35,000-gallon Asphaltic Cement Storage Tanks;

Five (5) Asphalt Plant Conveyors;

Four (4) Crushing Plant Conveyors (one enclosed);

One (1) 150 Ton/hr Portable Crusher;

Two (2) Asphalt Plant Screens;

One (1) Crushing Plant Screen;

Six (6) Aggregate Bins;

Two (2) RAP Bins; and

One (1) RAS Bin

as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- This permit is issued based on the construction of the drum-mix asphalt 1a. plant not constituting a new major source or major modification pursuant to Title I of the Clean Air Act, specifically 40 CFR 52.21 (Prevention of Significant Deterioration (PSD)). The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the emissions of Carbon Monoxide (CO), Particulate Matter (PM), Particulate Matter less than 10 microns (PM10), and Sulfur Dioxide (SO2), from the above-listed emission units below the levels that would trigger the applicability of these rules.
  - This permit is issued based on the construction of the drum-mix asphalt b. plant not constituting a new major source or major modification pursuant to Title I of the Clean Air Act, specifically 35 Ill. Adm. Code Part 203 (Major Stationary Sources Construction and Modification). The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the emissions of Volatile Organic Material (VOM) from the

- above-listed equipment below the levels that would trigger the applicability of these rules.
- c. Operation of the equipment listed above is allowed under this construction permit for a period of one year from the date of initial startup.
- d. The operation of the emission units under this construction permit shall not begin until construction of the associated pollution control equipment is complete and reasonable measures short of actual operation have been taken to verify proper operation.
- 2a. The drum mix asphalt plant is subject to the New Source Performance Standards (NSPS) for Hot Mix Asphalt Plants, 40 CFR 60, Subparts A and I. The Illinois EPA is administering the NSPS in Illinois on behalf of the United States EPA (USEPA) under a delegation agreement. Pursuant to 40 CFR 60.90(a), the affected facility to which the provisions of 40 CFR 60 Subpart I apply is each hot mix asphalt facility. For the purpose of 40 CFR 60 Subpart I, 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. Pursuant to 40 CFR 60.90(b), any facility under 40 CFR 60.90(a) that commences construction or modification after June 11, 1973, is subject to the requirements of 40 CFR 60 Subpart I.
- c. Pursuant to 40 CFR 60.92(a), on and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, no owner or operator subject to the provisions of 40 CFR 60 Subpart I shall discharge or cause the discharge into the atmosphere from any affected facility any gases which:
  - Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).
  - ii. Exhibit 20 percent opacity or greater.
- 3a. The Loadout Silos, Asphalt Plant Drum Mixer, Asphalt Plant Conveyors, Crushing Plant Conveyors, Portable Crusher, Asphalt Plant screens, Crushing Plant Screen, Aggregate Bins, RAP Bins, and RAS Bins are subject to 35 Ill. Adm. Code Part 212 Subpart B (Visible Emissions). Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 Ill. Adm. Code 212.122.
- b. Pursuant to 35 Ill. Adm. Code 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a

305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.

- c. This source is subject to 35 Ill. Adm. Code Part 212 Subpart K (Fugitive Particulate Matter). Pursuant to 35 Ill. Adm. Code 212.301, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.
- d. Pursuant to 35 Ill. Adm. Code 212.302(a), 35 Ill. Adm. Code 212.304 through 212.310 and 212.312 shall apply to all mining operations (SIC major groups 10 through 14), manufacturing operations (SIC major groups 20 through 39 except for those operations subject to 35 Ill. Adm. Code Part 212 Subpart S (Grain-Handling and Grain-Drying Operations) that are outside the areas defined in 35 Ill. Adm. Code 212.324(a)(1)), and electric generating operations (SIC group 491), which are located in the areas defined by the boundaries of the following townships, notwithstanding any political subdivisions contained therein, as the township boundaries were defined on October 1, 1979, in the following counties:

Cook: All townships

- e. The Loadout Silos, Asphalt Plant Drum Mixer, Asphalt Plant Conveyors, Crushing Plant Conveyors, Portable Crusher, Asphalt Plant screens, Crushing Plant. Screen, Aggregate Bins, RAP Bins, and RAS Bins are subject to 35 Ill. Adm. Code Part 212 Subpart L (Particulate Matter Emissions from Process Emission Units). Pursuant to 35 Ill. Adm. Code 212.321(a), except as further provided in 35 Ill. Adm. Code Part 212, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 Ill. Adm. Code 212.321(c).
- f. Pursuant to 35 Ill. Adm. Code 212.321(b), interpolated and extrapolated values of the data in 35 Ill. Adm. Code 212.321(c) shall be determined by using the equation:

 $E = A(P)^B$ 

where:

P = Process weight rate; and

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E = Allowable emission rate; and,

i. Up to process weight rates of 408 Mg/hr (450 T/hr):

Metric English

Mg/hr T/hr

E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

ii. For process weight rate greater than or equal to 408 Mg/hr (450 T/hr):

		Metric	English
P	•	Mg/hr	T/hr
E		kg/hr	lbs/hr
A		11,42	24.8
В		0.16	0.16

g. Pursuant to 35 Ill. Adm. Code 212.321(c), Limits for Process Emission Units for Which Construction of Modification Commenced On or After April 14, 1972:

	Metric		English	
	P	E	P	E
	Mg/hr	kg/hr	T/hr	lbs/hr
	0.05	0.25	0.05	0.55
	0.1	0.29	0.10	0.77
	0.2	0.42	0.20	1.10
	0.3	0.64	0.30	1.35
	0.4	0.74	0.40	1.58
	0.5	0.84	0.50	1.75
	0.7	1.00	0.75	2.40
	0.9	1.15	1.00	2.60
	1.8	1.66	2.00	3.70
	2.7	2.1	3.00	4.60
	3.6	2.4	4.00	5.35
	4.5	2.7	5.00	6.00
	9.	3.9	10.00	8.70
	13.	4.8	15.00	10.80
	18.	5.7	20.00	12.50
	23.	6.5	25.00	14.00
	27.	7.1	30.00	15.60
	32.	7.7	35.00	17.00
	36.	8.2	40.00	18.20
	41.	8.8	45.00	19.20
	45.	9.3	50.00	20.50
	90.	13.4	100.00	29.50
	140.	17.0	150.00	37.00
	180.	19.4	2,00.00	43.00
	230.	22.	250.00	48.50
-	-270. —	24.	300.00	53.00
	320.	26.	350.00	58.00
	360.	28.	400.00	62.00
	408.	30.1	450.00	66.00
	454.	30.4	500.00	67.00

#### where:

- P = Process weight rate in metric or T/hr, and
- E = Allowable emission rate in kg/hr or lbs/hr.
- 4a. The Asphalt Plant Drum Mixer is subject to 35 Ill. Adm. Code Part 214 Subpart K (Process Emission Sources). Pursuant to 35 Ill. Adm. Code 214.301, except as further provided by 35 Ill. Adm. Code Part 214, no

- person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2000 ppm.
- b. Pursuant to 35 Ill. Adm. Code 214.305(a)(2), except as provided in 35 Ill. Adm. Code 214.305(b), (c), and (d), on and after January 1, 2017, the owner or operator of a process emission source must comply with the following:
  - The sulfur content of all distillate fuel oil used by the process emission source must not exceed 15 ppm;
- 5a. The Asphaltic Cement Storage Tanks are subject to 35 Tll. Adm. Code Part 218 Subpart B (Organic Emissions from Storage and Loading Operations). Pursuant to 35 Ill. Adm. Code 218.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Illinois EPA according to the provisions of 35 Ill. Adm. Code Part 201, and further processed consistent with 35 Ill. Adm. Code 218.108, or unless such tank is a pressure tank as described in 35 Ill. Adm. Code 218.121(a) or is fitted with a recovery system as described in 35 Ill. Adm. Code 218.121(b) (2).
  - b. The Asphalt Plant Drum Mixer is subject to 35 Ill. Adm. Code Part 218 Subpart G (Use of Organic Material). Pursuant to 35 Ill. Adm. Code 218.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 Ill. Adm. Code 218.302, 218.303, 218.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code Part 218 Subpart G shall apply only to photochemically reactive material.
- This permit is issued based on the Asphaltic Cement Storage Tanks at this source not being subject to the NSPS for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60 Subpart Kb. Pursuant to 40 CFR 60.110b(b), 40 CFR 60 Subpart Kb does not apply to storage vessels with a capacity greater than or equal to 151 m³ storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) or with a capacity greater than or equal to 75 m³ but less than 151 m³ storing a liquid with a maximum true vapor pressure less than 150 kPa.
- b. This permit is issued based on the Asphalt Plant Conveyors, Crushing Plant Conveyors, Portable Crusher, Asphalt Plant Screens, Crushing Plant Screen, Aggregate Bins, RAP Bins, and RAS Bin at this source not being subject to the NSPS for Nonmetallic Mineral Processing Plants, 40 CFR 60 Subpart 000.
  - i. Pursuant to 40 CFR 60.670(b), an affected facility that is subject to the provisions of 40 CFR 60 Subparts F (Portland Cement Plants) or I (Hot Mix Asphalt Facilities) or that follows in the plant process any facility subject to the provisions of 40 CFR 60 Subparts F or I is not subject to the provisions of 40 CFR 60 Subpart 000;

ii. Pursuant to 40 CFR 60.670(c)(2), facilities at the following plants are not subject to the provisions of 40 CFR 60 Subpart 000:

Portable sand and gravel plants and crushed stone plants with capacities, as defined in 40 CFR 60.671, of 136 megagrams per hour (150 tons per hour) or less

- 7. Pursuant to 35 Ill. Adm. Code 212.314, 35 Ill. Adm. Code 212.301 shall not apply and spraying pursuant to 35 Ill. Adm. Code 212.304 through 212.310 and 35 Ill. Adm. Code 212.312 shall not be required when the wind speed is greater than 40.2 km/hour (25 mph). Determination of wind speed for the purposes of this rule shall be by a one-hour average or hourly recorded value at the nearest official station of the U.S. Weather Bureau or by wind speed instruments operated on the site. In cases where the duration of operations subject to this rule is less than one hour, wind speed may be averaged over the duration of the operations on the basis of on-site wind speed instrument measurements.
- 8a. This permit is issued based on the Asphaltic Cement Storage Tanks at this source not being subject to 35 Ill. Adm. Code 218.120 (Control Requirements for Storage Containers of VOL). Pursuant to 35 Ill. Adm. Code 218.119, the limitations of 35 Ill. Adm. Code 218.120 shall apply to all storage containers of volatile organic liquid (VOL) with a maximum true vapor pressure of 0.5 psia or greater in any stationary tank, reservoir, or other container of 151 cubic meters (40,000 gal) capacity or greater, except to vessels as provided below:

Vessels with storage capacity less than 40,000 gallons must comply with 35 Ill. Adm. Code 218.129(f).

- b. Pursuant to 35 Ill. Adm. Code 218.122(c), if no odor nuisance exists the limitations of 35 Ill. Adm. Code 218.122 shall only apply to the loading of volatile organic liquid with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F).
- c. This permit is issued based on the Drum Mix Asphalt Plant not being subject to the requirements of 35 Ill. Adm. Code Part 218 Subpart TT (Other Emission Units). This is a result of federally enforceable production and operating limitations established in this permit, which restrict the potential to emit for VOM from the drum-mix asphalt plant to less than 25 tons per year. Pursuant to 35 Ill. Adm. Code 218.980(b), a source is subject to 35 Ill. Adm. Code Part 218 Subpart TT if it has the potential to emit 22.7 Mg (25 tons) or more of VOM per year, in aggregate, from emission units, other than furnaces at glass container manufacturing sources and VOM leaks from components, that are not regulated by 35 Ill. Adm. Code Part 218 Subparts B, E, F, H, Q, R, S, T, (excluding 35 Ill. Adm. Code 218.486), V, X, Y, Z, or BB.
- 9a. Pursuant to 40 CFR 60.11(b), compliance with opacity standards in 40 CFR Part 60 shall be determined by conducting observations in accordance with Method 9 in Appendix A of 40 CFR Part 60, any alternative method that is approved by the Illinois EPA or USEPA, or as provided in 40 CFR 60.11(e)(5). For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of

- observations (meaning those fugitive-type emission sources subject only to an opacity standard).
- b. Pursuant to 40 CFR 60.11(c), the opacity standards set forth in 40 CFR Part 60 shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.
- c. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- 10a. Pursuant to 35 Ill. Adm. Code 212.306, all normal traffic pattern access areas surrounding storage piles specified in 35 Ill. Adm. Code 212.304 and all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by 35 Ill. Adm. Code 212.309, 212.310 and 212.312.
  - b. Pursuant to 35 Ill. Adm. Code 212.307, all unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods.
  - c. Pursuant to 35 Ill. Adm. Code 212.308, crushers, grinding mills, screening operations, bucket clevators, conveyor transfer points, conveyors, bagging operations, storage bins and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-feeding or be treated by an equivalent method in accordance with an operating program.
  - d. Pursuant to 35 Ill. Adm. Code 212.309(a), the emission units described in 35 Ill. Adm. Code 212.304 through 212.308 and 35 Ill. Adm. Code 212.316 shall be operated under the provisions of an operating program, consistent with the requirements set forth in 35 Ill. Adm. Code 212.310 and 212.312, and prépared by the owner or operator and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions.
  - e. Pursuant to 35 Ill. Adm. Code 212.310, as a minimum the operating program shall include the following:
    - i. The name and address of the source;
    - ii. The name and address of the owner or operator responsible for execution of the operating program;

- iii. A map or diagram of the source showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and all normal traffic patterns within the source;
- iv. Location of unloading and transporting operations with pollution control equipment;
- v. A detailed description of the best management practices utilized to achieve compliance with 35 Ill. Adm. Code Part 212 Subpart K, including an engineering specification of particulate collection equipment, application systems for water, oil, chemicals and dust suppressants utilized and equivalent methods utilized;
- vi. Estimated frequency of application of dust suppressants by location of materials; and
- vii. Such other information as may be necessary to facilitate the Illinois EPA's review of the operating program.
- f. Pursuant to 35 Ill. Adm. Code 212.312, the operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with 35 Ill. Adm. Code Part 212 Subpart K and shall be submitted to the Illinois EPA for its review.
- 11a. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in material or installation of controls, in order to eliminate the nuisance.
  - b. The baghouse with knockout box and fabric filter shall be in operation at all times when the associated Asphalt Plant Drum Mixer is in operation and emitting air contaminants.
  - c. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the baghouse with knockout box and fabric filter associated with the Asphalt Plant Drum Mixer such that the baghouse with knockout box and fabric filter is kept in proper working condition and does not causes a violation of the Illinois Environmental Protection Act or regulations promulgated therein.
  - d. The Asphalt Plant Drum Mixer shall only be operated with natural gas or distillate fuel oil (Grades No. 1 and 2) as the fuel. The use of any other fuel in the Asphalt Plant Drum Mixer may require that the Permittee first obtain a construction permit from the Illinois EPA and then perform stack testing to verify compliance with all applicable requirements.
  - e. Organic liquid by-products or waste materials shall not be used in an affected drum-mix asphalt plant without prior written approval from the Illinois EPA.

- f. The Illinois EPA shall be allowed to sample all fuels stored at the above location.
- g. The surface moisture content of the aggregate to be processed in the crushing plant at this source shall be at least 1.5% by weight. The Permittee shall show compliance with this requirement as follows:
  - i. Water sprays shall be used on the emission units associated with the crushing plant (e.g., crushers, conveyors, and stockpiles, etc.) as necessary, except when weather conditions are below or expected to fall below freezing temperatures, to produce a moisture content of 1.5% by weight or higher to reduce particulate matter emissions; or
  - ii. Demonstrate compliance with Condition 11(i) by following the testing requirements of Condition 19(b).
- 12a. Emissions from and operation of the asphalt plant shall not exceed the following limits:
  - i. Asphalt Production Limits:

	Asphalt	Concrete Production	Rate	
(Tons/Hour)		(Tons/Month)		(Tons/Year)
		<del></del>		
400		148,333		890,000

ii. Emissions of Particulate Matter (PM) and Particulate Matter less than 10 microns (PM $_{10}$ ) from the Drum Mixer:

	Emission Factor	Emis	sions
Pollutant	(gr/dscf)	(lbs/Hr)	(Tons/Yr)
Particulate Matter (PM) Particulate Matter < 10 microns	0.040	30.59	34.03
(PM <sub>10</sub> )	0.012	9.18	10.21

The above limits are based on the maximum baghouse exhaust flowrate of 89,217 cfm, the allowable PM emission rate from 40 CFR 60.92(a),  $PM_{10}$  is based on the size distribution (30% of PM) from Table 11.1-4 AP-42, AP-42, Volume I, Fifth Edition, Update 2004, April 2004), and 2,225 hours/year of operation.

iii. Emissions of CO,  $NO_x$ ,  $SO_2$ , and VOM from the Drum Mixer:

	Emission Factor	Emis	sions
Pollutant	(lbs/Ton)	(lbs/hr)	(Tons/Yr)
Carbon Monoxide (CO)	0.130	52.00	57.85
Nitrogen Oxides (NOx)	0.055	22.00	24.48
Sulfur Dioxide (SO₂)	0.011	4.40	4.90
Volatile Organic Material (VOM)	0.032	12.80	14.24

iv. Emissions from Silo Truck load-out:

	Emission Factor	Emis	ssions
Pollutant	(lbs/Ton)	(lbs/hr)	(Tons/Yr)
Carbon Monoxide (CO) Particulate Matter (PM) Particulate Matter < 10 microns	0.00135	0.5 <b>4</b>	0.60
	0.000522	0.21	0.23
(PM <sub>10</sub> ) Volatile Organic Material (VOM)	0.000522	0.21	0.23
	0.00416	1.66	1.85

v. Emissions from silo filling:

±	Emission Factor	Em1s	sions
Pollutant	(lbs/Ton)	(lbs/hr)	(Tons/Yr)
Carbon Monoxide (CO)	0.00118	0.47	0.53
Particulate Matter (PM)	0.00059	0.23	0.26
Particulate Matter < 10 microns	0.00050	0.00	0.26
(PM <sub>10</sub> )	0.00059	0.23	0.26
Volatile Organic Material (VOM)	0.01219	4.87	5.42

vi. The limits in Conditions 12(a)(iii) through (v) are based on the maximum asphalt production rates, 2,225 hours/year of operation and standard emission factors (Tables 11.1-3, 11.1-4, 11.1-7, 11.1-8, and 11.1-14, AP-42, Volume I, Fifth Edition, Update 2004, April 2004).

b. Emissions from and operation of the crushing plant shall not exceed the following limits:

			Emission	Factors		Emis	sions	
Item of	Material	Throughput	PM	$PM_{10}$	I	PM	P	M <sub>10</sub>
Equipment	(Ton/hr)	(Ton/yr)	(1b/ton)	(lb/ton)	(1b/hr)	(Ton/yr)	(1b/hr)	(Ton/yr)
5 Asphalt								
Conveyors	400	890,000	0.00014	0.00005	0.28	0.31	0.09	0.10
2 Asphalt								
Screens	400	890,000	0.0022	0.00074	1.76	1.96	0.59	0.66
1 Crusher	192	425,000	0.0012	0.00054	0.23	0.26	0.10	0.11
4 Crushing								
Plant Conveyors	196	425,000	0.00014	0.00005	0.11	0.12	0.04	0.04
1 Crushing								
Plant Screen	191	425,000	0.0022	0.00074	0.42	0.47	0.14	0.16
Loading								
Material onto								
Storage Piles	400	890,000	0.00814	0.00385	3.26	0.49	1.54	0.23
		,			Totals:	3.61		1.30

These limits are based on the maximum throughput, 2,225 hours/year of operation, material moisture content of 3.0%, 80% reduction of PM and  $PM_{10}$  through wetting material loaded onto storage piles, and standard emission factors (Table 11.19.2-2, AP-42, Volume I, Fifth Edition, Update 2004, August 2004 and Section 13.2.4, AP-42, Volume I, Fifth Edition, November 2006).

- c. This permit is issued based on negligible emissions of VOM from the three asphalt cement storage tanks. For this purpose, VOM emissions from all three tanks combined shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year total.
- d. Fugitive emissions of PM and  $PM_{10}$  from this source shall not exceed the following limits:

	PM Em	issions	PM <sub>10</sub> Emissions		
Process	(Tons/Mo)	(Tons/year)	(Tons/Mo)	(Tons/year)	
Paved Road Traffic	0.44	4.44	0.09	0.89	
Unpaved Road Traffic	9.01	90.11	2.30	<u>22.97</u>	
	Totals:	94.55		23.86	

- e. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- 13. This permit is issued based on the Potential to Emit (PTE) for Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act from the source being less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result, this permit is issued based on the emissions of all HAPs from the drum mix asphalt plant not triggering the requirements of Section 112(g) of the Clean Air Act.

- 14a. Pursuant to 40 CFR 60.8(a), within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Illinois EPA or USEPA under section 114 of the Clean Air Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Illinois EPA or USEPA a written report of the results of such performance test(s).
  - b. Pursuant to 40 CFR 60.8(b), performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart of 40 CFR Part 60 unless the Illinois EPA or USEPA:
    - Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
    - ii. Approves the use of an equivalent method;
    - iii. Approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance;
    - iv. Waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Illinois EPA's or USEPA's satisfaction that the affected facility is in compliance with the standard; or
    - v. Approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Illinois EPA's or USEPA's authority to require testing under section 114 of the Clean Air Act.
  - c. Pursuant to 40 CFR 60.8(c), performance tests shall be conducted under such conditions as the Illinois EPA or USEPA shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Illinois EPA or USEPA such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.
  - d. Pursuant to 40 CFR 60.8(d), the owner or operator of an affected facility shall provide the Illinois EPA or USEPA at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Illinois EPA or USEPA the opportunity to have an observer present. If after 30 days' notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Illinois EPA or USEPA as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled

- date of the performance test, or by arranging a rescheduled date with the Illinois EPA or USEPA by mutual agreement.
- e. Pursuant to 40 CFR 60.8(e), the owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:
  - i. Sampling ports adequate for test methods applicable to such facility. This includes:
    - A. Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures; and
    - B. Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
  - ii. Safe sampling platform(s).
  - iii. Safe access to sampling platform(s).
  - iv. Utilities for sampling and testing equipment.
- f. Pursuant to 40 CFR 60.8(f), unless otherwise specified in the applicable subpart of 40 CFR Part 60, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard under 40 CFR Part 60. For the purpose of determining compliance with an applicable standard under 40 CFR Part 60, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Illinois EPA's or USEPA's approval, be determined using the arithmetic mean of the results of the two other runs.
- g. Pursuant to 40 CFR 60.11(e)(1), for the purpose of demonstrating initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR 60.8 unless one of the following conditions apply. If no performance test under 40 CFR 60.8 is required, then opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but no later than 180 days after initial startup of the facility. If visibility or other conditions prevent the opacity observations from being conducted concurrently with the initial performance test required under 40 CFR 60.8, the source owner or operator shall reschedule the opacity observations as soon after the initial performance test as possible, but not later than 30 days thereafter, and shall advise the Illinois EPA or USEPA of the rescheduled date. In these cases, the 30-day prior notification to the Illinois EPA or USEPA required in 40 CFR 60.7(a)(6) shall be waived. The rescheduled opacity observations shall be

conducted (to the extent possible) under the same operating conditions that existed during the initial performance test conducted under 40 CFR 60.8. The visible emissions observer shall determine whether visibility or other conditions prevent the opacity observations from being made concurrently with the initial performance test in accordance with procedures contained in Method 9 of appendix B of 40 CFR Part 60. Opacity readings of portions of plumes which contain condensed, uncombined water vapor shall not be used for purposes of determining compliance with opacity standards. The owner or operator of an affected facility shall make available, upon request by the Illinois EPA or USEPA, such records as may be necessary to determine the conditions under which the visual observations were made and shall provide evidence indicating proof of current visible observer emission certification. Except as provided in 40 CFR 60.11(e)(5), the results of continuous monitoring by transmissometer which indicate that the opacity at the time visual observations were made was not in excess of the standard are probative but not conclusive evidence of the actual opacity of an emission, provided that the source shall meet the burden of proving that the instrument used meets (at the time of the alleged violation) Performance Specification 1 in appendix B of 40 CFR Part 60, has been properly maintained and (at the time of the alleged violation) that the resulting data have not been altered in any way.

- h. Pursuant to 40 CFR 60.11(e)(2), except as provided in 40 CFR 60.11(e)(3), the owner or operator of an affected facility to which an opacity standard in 40 CFR Part 60 applies shall conduct opacity observations in accordance with 40 CFR 60.11(b), shall record the opacity of emissions, and shall report to the Illinois EPA or USEPA the opacity results along with the results of the initial performance test required under 40 CFR 60.8. The inability of an owner or operator to secure a visible emissions observer shall not be considered a reason for not conducting the opacity observations concurrent with the initial performance test.
- 15a. Pursuant to 40 CFR 60.93(a), in conducting the performance tests required in 40 CFR 60.8, the owner or operator shall use as reference methods and procedures the test methods in Appendix A of 40 CFR Part 60 or other methods and procedures as specified in 40 CFR 60.93, except as provided in 40 CFR 60.8(b).
  - b. Pursuant to 40 CFR 60.93(b), the owner or operator shall determine compliance with the particulate matter standards in 40 CFR 60.92 as follows:
    - i. 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).
    - ii. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity.
- 16a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of

determining ground level and ambient air concentrations of such air contaminants:

- i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.
- ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.
- b. Testing required by Conditions 17 and 18 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.
- 17a. Pursuant to 35 Ill. Adm. Code 212.107, for both fugitive and non-fugitive particulate matter emissions, a determination as to the presence or absence of visible emissions from emission units shall be conducted in accordance with Method 22, 40 CFR Part 60, Appendix A, except that the length of the observing period shall be at the discretion of the observer, but not less than one minute. 35 Ill. Adm. Code 212 Subpart A shall not apply to 35 Ill. Adm. Code 212.301.
  - b. Pursuant to 35 Ill. Adm. Code 212.109, except as otherwise provided in 35 Ill. Adm. Code Part 212, and except for the methods of data reduction when applied to 35 Ill. Adm. Code 212.122 and 212.123, measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, and the procedures in 40 CFR 60.675(c) and (d), if applicable, except that for roadways and parking areas the number of readings required for each vehicle pass will be three taken at 5-second intervals. The first reading shall be at the point of maximum opacity and second and third readings shall be made at the same point, the observer standing at right angles to the plume at least 15 feet away from the plume and observing 4 feet above the surface of the roadway or parking area. After four vehicles have passed, the 12 readings will be averaged.
  - c. Pursuant to 35 Ill. Adm. Code 212.110(a), measurement of particulate matter emissions from stationary emission units subject to 35 Ill. Adm.

Code Part 212 shall be conducted in accordance with 40 CFR Part 60, Appendix A, Methods 5, 5A, 5D, or 5E.

- d. Pursuant to 35 Ill. Adm. Code 212.110(b), the volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, and 4.
- e. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA.
- 18a. Within 60 days after achieving the maximum production rate at which the Drum-Mix Asphalt Plant will be operated, but not later than 180 days after startup of the facility, the of emissions from the drum-mix asphalt plant and RAP crushing plant and the PM emissions from the drum-mix asphalt plant shall be measured during conditions which are representative of maximum emissions. These tests shall determine compliance with 40 CFR 60.92(a).
  - b. The following methods and procedures shall be used for testing of emissions, unless another method is approved by the Illinois EPA: Refer to 40 CFR 60, Appendix A, and 40 CFR 61, Appendix B, for USEPA test methods.

Sample and Velocity Traverses for Stationary Sources USEPA Method 1 Determination of Stack Gas Velocity and Volumetric USEPA Method 2 Flow Rate (Type S Pitot Tube) Gas Analysis for the Determination of Dry Molecular USEPA Method 3 Weight Determination of Moisture Content in Stack Gases USEPA Method 4 Determination of Particulate Matter Emissions from USEPA Method 5 Stationary Sources Visual Determination of the Opacity of Emissions USEPA Method 9 from Stationary Sources Visual Determination of Fugitive Emissions from USEPA Method 22 Material Sources

- c. At least 30 days prior to the actual date of testing, the Permittee shall submit a written test plan to the Illinois EPA, Compliance Section. This plan shall include as a minimum:
  - i. The name (or other identification) of the emission unit(s) to be tested and the name and address of the facility at which they are located;
  - ii. The name and address of the independent testing service(s) performing the tests, with the names of the individuals who may be performing sampling and analysis and their experience with similar tests;

- iii. The specific determinations of emissions and/or performance which are intended to be made, including the site(s) in the ductwork or stack at which sampling will occur;
- iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of the maximum emissions, maximum operating rate, minimum control performance, the levels of operating parameters for the emission unit, including associated control equipment, at or within which compliance is intended to be shown, and the means by which the operating parameters will be determined;
- v. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods. The specific sampling, analytical and quality control procedures which will be used, with an identification of the standard methods upon which they are based;
- vi. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification;
- vii. Any proposed use of an alternative test method, with detailed justification; and
- viii. The format and content of the Source Test Report.
- d. The Permittee shall provide the Illinois EPA with written notification of testing at least thirty (30) days prior to testing to enable the Illinois EPA to have an observer present. This notification shall include the name of emission unit(s) to be tested, scheduled date and time, and contact person with telephone number.
- e. If testing is delayed, the Permittee shall promptly notify the Illinois EPA by email or facsimile, at least five (5) days prior to the scheduled date of testing or immediately, if the delay occurs in the five (5) days prior to the scheduled date. This notification shall also include the new date and time for testing, if set, or a separate notification shall be sent with this information when it is set.
- f. The Permittee shall submit the Final Source Test Report(s) for these tests accompanied by a cover letter stating whether or not compliance was shown, to the Illinois EPA without delay, within thirty (30) days after the test results are compiled, but no later than sixty (60) days after the date of testing or sampling. The Final Source Test Report shall include as a minimum:
  - i. General information describing the test, including the name and identification of the emission source which was tested, date of testing, names of personnel performing the tests, and Illinois EPA observers, if any;
  - ii. A summary of results;
  - iii. Description of test procedures and method(s), including description and map of emission units and sampling points,

sampling train, testing and analysis equipment, and test schedule;

- iv. Detailed description of test conditions, including:
  - A. List and description of the equipment (including serial numbers or other equipment specific identifiers) tested and process information (i.e., mode(s) of operation, process rate/throughput, fuel or raw material consumption rate, and heat content of the fuels);
  - B. Control equipment information (i.e., equipment condition and operating parameters) during testing; and
  - C. A discussion of any preparatory actions taken (i.e., inspections, maintenance and repair).
- v. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration. Identification of the applicable regulatory standards and permit conditions that the testing was performed to demonstrate compliance with, a comparison of the test results to the applicable regulatory standards and permit conditions, and a statement whether the test(s) demonstrated compliance with the applicable standards and permit conditions;
- vi. An explanation of any discrepancies among individual tests, failed tests or anomalous data;
- vii. The results and discussion of all quality control evaluation data, including a copy of all quality control data; and
- viii. The applicable operating parameters of the pollution control device(s) during testing (temperature, pressure drop, scrubbant flow rate, etc.), if any.
- g. Satisfactory completion of this test so as to demonstrate compliance with applicable emission standards is a prerequisite to issuance of an operating permit, pursuant to 35 Ill. Adm. Code 201.160(b).
- 19a. Inspections of the Drum-Mix Asphalt Plant and control systems equipment and operations shall be performed as necessary but at least once per week when the affected drum-mix asphalt plant is in operation to confirm compliance with the requirements of this permit.
  - b. The moisture content of a representative sample of the aggregate processed in the crushing plant associated with the drum-mix asphalt plant shall be measured at least once per week using ASTM Procedures (C566-97) for total moisture content of material.
  - c. The water supply to the spray equipment shall be equipped with a metering device used to determine water usage for the control of particulate matter emissions.
  - d. Inspections of water spray equipment and operation (such as leaking, maintaining adequate flow, clogging of flow lines, etc.) shall be

performed at least once per week when the crushing plant associated with the affected drum-mix asphalt plant is in operation.

- 20a. Pursuant to 40 CFR 60.7(b), any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
  - b. Pursuant to 40 CFR 60.7(f), any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, except as follows:

The Illinois EPA or USEPA, upon notification to the source, may require the owner or operator to maintain all measurements as required by 40 CFR 60.7(f), if the Illinois EPA or USEPA determines these records are required to more accurately assess the compliance status of the affected source.

- 21. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.
- 22a. Pursuant to 35 Ill. Adm. Code 214.305(a)(3), except as provided in 35 Ill. Adm. Code 214.305(b), (c), and (d), on and after January 1, 2017, the owner or operator of a process emission source must comply with the following:

The owner or operator must:

- i. Maintain records demonstrating that the fuel oil used by the process emission source complies with the requirements in 35 Ill. Adm. Code 214.305(a)(1) and (a)(2), such as records from the fuel supplier indicating the sulfur content of the fuel oil; and
- ii. Retain the records for at least 5 years, and provide copies of the records to the Illinois EPA within 30 days after receipt of a request by the Illinois EPA;
- 23. Pursuant to 35 Ill. Adm. Code 218.129(f), the owner or operator of each storage vessel specified in 35 Ill. Adm. Code 218.119 shall maintain readily accessible records of the dimension of the storage vessel and an analysis of the capacity of the storage vessel. Each storage vessel with a design capacity less than 40,000 gallons is subject to no provisions of 35 Ill. Adm. Code Part 218 other than those required by

maintaining readily accessible records of the dimensions of the storage vessel and analysis of the capacity of the storage vessel.

- - i. Records addressing use of good operating practices for the baghouse with knockout box and fabric filter associated with the Asphalt Plant Drum Mixer:
    - A. Operating logs for the baghouse with knockout box and fabric filter, including operating data (pressure drop or stack condition), daily upon startup;
    - B. Records for periodic inspection of the baghouse with knockout box and fabric filter with date, individual performing the inspection, and nature of inspection; and
    - C. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.
  - ii. The Permittee shall keep a copy of the Fugitive Particulate Operating Program, any amendments or revisions to the Fugitive Particulate Operating Program, and the Permittee shall also keep a record of activities completed according to the Fugitive Particulate Operating Program.
  - iii. Records addressing use of good operating practices for the RAP crushing plant:
    - A. If the Permittee is relying on the requirements of Condition 19(b) to demonstrate compliance with Condition 11(g), the Permittee shall maintain records of all moisture content tests performed including date, time, individual performing test, and location of sample (e.g., prior to crushing, stockpiles, etc.);
    - B. If the Permittee is relying on Condition 19(c) to demonstrate compliance with Condition 11(g), the Permittee shall maintain operating logs for the water spray equipment, including dates and times of usage, malfunctions (type, date, and measures taken to correct), water pressure, and dates when there was at least 0.25" of rainfall during the preceding 24 hours and the water spray equipment was not operated; and
    - C. The Permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition 19(c) and the amount of precipitation specified in Condition 24(a)(iii)(B).
  - iv. Asphalt concrete production (tons/month and tons/year);
  - v. Operating hours of the Drum Mix Asphalt Plant and RAP Crushing Plant (hours/month and hours/year);

- vi. Reclaimed Asphalt Pavement (RAP) throughput of the RAP crushing plant (tons/month and tons/year);
- vii. Asphaltic cement throughput of the three storage tanks (gallons/month and gallons/year); and
- viii. Monthly and annual CO,  $NO_x$ , PM,  $SO_z$ , and VOM emissions from the Drum Mix Asphalt Plant and RAP crushing plant with supporting calculations (tons/month and tons/year).
- b. All records and logs required by Condition 24(a) of this permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA or USEPA request for records during the course of a source inspection.
- 25a. Pursuant to 40 CFR 60.7(a), any owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Illinois EPA or USEPA written notification or, if acceptable to both the Illinois EPA or USEPA and the owner or operator of a source, electronic notification, as follows:
  - i. A notification of the date construction (or reconstruction as defined under 40 CFR 60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.
  - ii. A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.
  - iii. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Illinois EPA or USEPA may request additional relevant information subsequent to this notice.
- 26. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.

27. Pursuant to 35 Ill. Adm. Code 214.305(a)(3)(C), except as provided in 35 Ill. Adm. Code 214.305(b), (c), and (d), on and after January 1, 2017, the owner or operator of a process emission source must comply with the following:

The owner or operator must notify the Illinois EPA within 30 days after discovery of deviations from any of the requirements in this 35 Ill. Adm. Code 214.305(a). At minimum, and in addition to any permitting obligations, such notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.

- 28. Pursuant to 35 Ill. Adm. Code 218.990, upon request by the Illinois EPA, the owner or operator of an emission unit which is exempt from the requirements of 35 Ill. Adm. Code Part 218 Subparts PP, QQ, RR, TT or 35 Ill. Adm. Code 218.208(b) shall submit records to the Illinois EPA within 30 calendar days from the date of the request that document that the emission unit is exempt from those requirements.
- 29a. If there is an exceedance of or a deviation from the requirements of this permit as determined by the record required by this permit or otherwise, the Permittee shall submit a report to the Illinois EPA's -Bureau of Air Compliance Section in Springfield, Illinois within thirty (30) days after the exceedance or deviation. The report shall identify the duration and the emissions impact of the exceedance or deviation, a copy of the relevant records and information to resolve the exceedance or deviation, and a description of the efforts to reduce emissions from, and the duration of exceedance or deviation, and to prevent future occurrences of any such exceedance or deviation.
  - b. One (1) copy of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency Division of Air Pollution Control Compliance Section (#40) P.O. Box 19276 Springfield, Illinois 62794-9276

If you have any questions on this, please call David Taylor at 217/785-1705.

Raymond E. Pilapil

Manager, Permit Section

Division of Air Pollution Control

REP:ĎŘŤ:jlp



## STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL P. O. BOX 19506 SPRINGFIELD, ILLINOIS 62794-9506

## STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

- Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year
  from the date of issuance, unless a continuous program of construction or development on this project has started by
  such time.
- 2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act, and Regulations adopted by the Illinois Pollution Control Board.
- 3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
- 4. The Permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:
  - a. to enter the Permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
  - b. to have access to and copy any records required to be kept under the terms and conditions of this permit.
  - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
  - d. to obtain and remove samples of any discharge or emission of pollutants, and
  - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
- 5. The issuance of this permit:
  - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
  - b. does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
  - c. does not release the Permittee from compliance with the other applicable statues and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
  - d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

- e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
- 6. a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.
  - b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.
- 7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:
  - a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or
  - b. upon finding that any standard or special conditions have been violated, or
  - c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.

## PERMIT CALCULATION SHEET

Facility: Mat Asphalt	****	I.D.: 031600QKI
Anal. Eng.: DKT	<b>Date:</b> 08/3/17	<b>P.N.:</b> 17070024
Rev. Eng.:	Date:	Date Rec.: 7/17/2017

Section 1: Identify noted File Traveler Sheet and ICEMAN source information that may affect permit issuance; if active VN indicate if Compliance is ok with issuance of a permit or NOI/Denial letter:

LEGAL:	None		
FOS FLAG:	None		<del></del>
CROPA:	None		<del></del>
Other	EJ area	•	

<u>Section 2</u>: . Identify type of permit and brief summary of application/permit history if submitted in response to a NOI/Denial letter or to request revision to an existing permit: The applicant is requesting a Construction Permit.

Section 3: Description of the source with an itemized list of emission units and pollution control equipment included in the application. If for an operating permit, list all existing and proposed units and equipment that the operating permit will need to address:

Five (5) 300 Ton Loadout Silos

One (1) 400 ton/hr Natural Gas/Used Oil-Fired Counter-flow Drum Mixer Asphalt Plant controlled by a Baghouse with knockout Box with Fabric Filter:

Three (3) 35,000-gallon Asphaltic Cement Storage Tanks;

Five (5) Asphalt Plant Conveyors (moisture controlled);

Four (4) Crushing Plant Conveyors (moisture controlled and one total enclosed);

One (1) 150 TPH Portable Crusher;

Two (2) Asphalt Plant screens;

One (1) Crushing Plant Screen;

Six (6) Aggregate Bins;

Two (2) RAP Bins; and

One (1) RAS Bin

Section 4: Identify the proposed type(s) and maximum actual operating quantities and rates of pollutant containing materials to be used/processed/produced that will be included in permit:

Asphalt Production Limits:

	Asphalt	Concrete	Production	Rate	
(Tons/Hour)		(Tons/M	onth)		(Tons/Year)
400		148.3	333		890.000

Section 5: Identify the proposed type(s), quantities and rates of maximum actual operating emissions for the source to be included in the permit including the units/controls proposed. Identify the source(s) of the emission factors used:

These limits are based on the maximum asphalt production and standard emission factors (Tables 11.1-3, 11.1-4, 11.1-7, 11.1-8, and 11.1-14, AP-42, Volume I, Fifth Edition, Update 2004, April 2004).

Section 6: Identify the source's potential-to-emit (PTE) including any proposed additions/revisions. Show calculations or reference where in application or file PTE is satisfactorily presented. Emissions from 35 IAC 201.146 exempt units must be included in PTE calculations:

12a. Emissions and operation of the asphalt plant shall not exceed the following limits:

i. Asphalt Production Limits:

	Asphalt	Concrete Product	ion Rate	
(Tons/Hour)		(Tons/Month)		(Tons/Year)
400		148,333		890,000

## ii. Emissions from Drum Mixer/Dryer:

Process Description	Control Device	Material	Produced	Baghouse e Factors	mission	Baghouse Exhaust	Emission R	lates	
		Hourly	Annually	Pollutant	Outlet Loading	Flow rate	Pollutant	Hourly	Annual
		(ton/hr)	(ton/yr)		(gr/dscf)	(cfm)		(1b/hr)	(ton/yr)
Drum Mix Plant	Baghouse W/ Fabric filter	400	890,000	РМ	0.040	89,217	PM	30.59	34.03
				PM <sub>10</sub>	0.012		PM10	9.18	10.21

## iii. Emissions from Drum Mixer/Dryer:

	Emission Factor	Emis	sions
Pollutant	(lbs/Ton)	(lbs/hr)	(Tons/Yr)
Carbon Monoxide (CO)	0.130	52.00	57.85
Nitrogen Oxides (NO <sub>x</sub> )	0.055	22.00	24.48
Sulfur Dioxide (SO <sub>2</sub> )	0.011	4.40	4.90
Volatile Organic Material (VOM)	0.032	12.80	14.24

## iv. Emissions from Silo Truck load-out:

	Emission Factor	Emis	ssions
Pollutant	(lbs/Ton)	(lbs/hr)	(Tons/Yr)
Carbon Monoxide (CO)	0.00135	0.54	0.60
Particulate Matter (PM)	0.000522	0.21	0.23
Particulate Matter < 10 microns			
(PM <sub>10</sub> )	0.000522	0.21	0.23
Volatile Organic Material (VOM)	0.00416	1.66	1.85

## v. Emissions from silo filling:

	Emission Factor	Emis	sions
Pollutant	(lbs/Ton)	(lbs/hr)	(Tons/Yr)
Carbon Monoxide (CO)	0.00118	0.47	0.53
Particulate Matter (PM)	0.00059	0.23	0.26
Particulate Matter < 10 microns			
(PM <sub>10</sub> )	0.00059	0.23	0.26
Volatile Organic Material (VOM)	0.01219	4.87	5.42

## **CALCULATION SHEET**

Vi. These limits are based on the maximum asphalt production and standard emission factors (Tables 11.1-3, 11.1-4, 11.1-7, 11.1-8, and 11.1-14, AP-42, Volume I, Fifth Edition, Update 2004, April 2004).

- b. Emissions and operation of the crushing plant shall not exceed the following limits:
  - ii. Particulate Matter Emissions from the Crushing Plant:

Emission Source	Material Throughput		sion	Emissions						
Doaree	(ton/yr)		ton)	(1b/hr)	(ton/yr)	(lb/hr)	(ton/yr)			
		PM	$PM_{10}$	I	PM	P	M <sub>10</sub>			
5 Asphalt	890,000	0.00014	0.00005	0.28	0.31	0.09	0.10			
Conveyors										
2 Asphalt	890,000	0.0022	0.00074	1.76	1.96	0.59	0.66			
Screens										
1 Crusher	425,000	0.0012	0.00054	0.23	0.26	0.10	0.11			
4 Crushing Plant	425,000	0.00014	0.00005	0.11	0.12	0.04	0.04			
Conveyors										
1 Crushing Plant	425,000	0.0022	0.00074	0.42	0.47	0.14	0.16			
Screen										
			Totals:		3.12		1.07			

These limits are based on the maximum throughput and standard emission factors (Table 11.19.2-2, AP-42, Volume I, Fifth Edition, Update 2004, August 2004).

- c. This permit is issued based on negligible emissions of VOM from the three asphalt cement storage tanks. For this purpose, VOM emissions from each tank shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year total.
- d. Fugitive emissions of PM and PM10 from truck traffic on paved and unpaved roadways and the storage piles associated with the drum-mix asphalt plant shall not exceed 15.88 tons/month and 95.27 tons/year for PM and 2.42 tons/month and 24.20 tons/year for PM10.

<u>Section 7</u>: List potentially applicable State and Federal (NSPS and NESHAP) regulations and indicate if application demonstrated those regulations would not be violated by construction and/or operation of equipment/units/processes in application:

The drum mix asphalt plant is subject to the New Source Performance Standards (NSPS) for Hot Mix Asphalt Plants, 40 CFR 60, Subparts A and I.

- 35 III. Adm. Code 212.123 and the particulate matter emission limitations of 35 III. Adm. Code 212.321.
- 35 Ill. Adm. Code 212.301 visual emissions
- 35 III. Adm. Code Part 214 Subpart K (Process Emission Sources)
- 35 Ill. Adm. Code Part 218 Subpart B (Organic Emissions From Storage And Loading Operations).

Section 8: Conclusions and recommendations. Indicate your final recommendation (e.g., NOI, denial, issue permit with conditions, etc.) and indicate reason(s) for that action: GRANT Construction permit.

## COMPLETENESS REVIEW WORKSHEET FOR CONSTRUCTION PERMIT FEES FACILITY: MAT Acohalt IDENTIFICATION OF REVIEW 10 NO.: 0316008 KI NUMBER (CIRCLE): 1 2 3 4 5 6 7 8 APPLICATION NO.: 17070014 MINITIAL COMPLETENESS REVIEW SUPPLEMENTAL SUBMITTAL (DATE): \_\_\_/\_\_/\_\_\_/ DATE REC'D: 07/11/11 ANALYST: DET OTHER TRIGGER (DESCRIBE): NOTE OF SOURCE STATES O SYNTHETIC MINOR ☐ MAJOR HAVE FESOP? TYES ☐ NON-MAJOR 3COMPLETENESS REVIEW FOR TECHNICAL INFORMATION ☐ INCOMPLETE (DESCRIBE): ACTION TO BE TAKEN APPLICATION ☐ REQUEST ADDITIONAL INFORMATION ☐ REJECT □ DENY ACTION COMPLETED: \_\_\_/\_\_/\_\_ "DAY": \_\_\_\_ A TOUR TO THE STREAM OF THE ST F CORRECT ☐ INADEQUATE OVERPAID (DESCRIBE): ☐ UNCERTAIN ACTION TO BE TAKEN BILL AMOUNT CONTINUE WITH TECHNICAL REVIEW REASON . AMOUNT ☐ REQUEST TECHNICAL INFO (SEE ABOVE) 1. Multiple units ☐ REQUEST TECHNICAL INFO & UPDATED FEE INFO (SEE ABOVE) ☐ BILL & CONTINUE WITH TECHNICAL REVIEW ☐ BILL & NO TECHNICAL REVIEW (EXPLAIN): TOTAL: \$ HAMA PARAMETER STATE OF THE STA ANALYST: DKT DATE: \_\_\_/\_\_\_ COMMENTS: \_\_\_\_\_ REVIEW: \_\_\_\_\_ DATE: \_\_\_/\_\_/ COMMENTS: \_\_\_\_

NITIAL	START	DATE
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DATE FINAL ACTION MUST BE TAKEN BY: \_\_\_ (to be completed after payment received)

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Permit Applicant: MAT Asphalt LLC

ID#: 03/600 QKI ; Application#: 17070024

Date received: 7/17/2017; 30th day (NOI. deadline): 8/16/2017; 90th day: 10/15/2017

Analyst: DKT ; Date Checklist Completed:

Permit Application Completeness Screening Questions	Yes/No/NA
1. Does the application include a cover letter or project narrative that describes what	1/
the applicant is requesting a permit for (e.g., construct/operate two tanks, etc.)?	<u></u>
2. Have the applicable signature application forms (APC 200P/628/629, etc.) been	
completed and signed and dated by the applicant?	1
3. For a construction permit application, was correct construction permit fee paid?	
a. If no fee or incorrect fee paid, call applicant, and tell them to	l V
submit it and revised 197-FEE Form within one week's time. If	/
not received within one week, prepare an Additional Fee Letter.	
4. For a construction permit application, does the APC-200P/628/629 form indicate	1/
if the emission unit has already been constructed? If it does, does it indicate date	/
constructed? Denial will be needed if already constructed.	ļ.
5. If a construction permit required testing prior to issuance of an operating permit:	ul/
a. Have the required test results been received by the IEPA?	184/h [
b. Has Compliance Section reviewed the test results or have you	/ ^
requested their review of the test results?	
c. Did the test results indicate compliance with limits?	
6. For existing sources requesting revision, does ICEMAN show current permit(s)	.//
for source issued to the same applicant identified on the form(s) in 2 above?	M/A
7. Does the application indicate or can you determine what the potential to emit	1
(PTE) is for the source (including HAPs), including requested modifications?	\Y
8. Does the application state or can you determine if the subject project's process,	
equipment or source is subject to the NSPS in 40 CFR Part 60, or NESHAP in 40	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
CFR Parts 61 and 63, or RACT in 35 IAC 218/219 Subparts AA-TT?	
9. Does the application propose and clearly identify the annual and short-term	,
emission limits and associated material throughput/usage limits and emission factors to	\( \sum_{\color=1} \)
be included in their new/revised permit?	
10. a. Does application identify county and township and SIC code of source? If not,	
call applicant and tell them to submit that information.	1 1/
b. Is source subject to either 212.302(a) or (b)? If so, does application describe	'
how source will comply with the additional PM requirements?	
11. If source is in an EJ area, is EJ outreach complete and EJ outreach completion	1
email from EJ officer in file?	1/
12. If permit was due today, could you write an enforceable permit with application?	/
12. It permit was due today, cours you write an entercourse permit with application:	レン
12. Does the application request a shaper of operating parmit from a CA ADD Title V	/
13. Does the application request a change of operating permit from a CAAPP Title V	\ \doldar\
or FESOP to a Lifetime Operating Permit?	1

If a No answer in Boxes 1-12 or Yes answer in Box 13, or not clear what the appropriate response is to a question, discuss the application with your supervisor. 11022015.

## PERMIT REVIEW TRAVELER SHEET

I.D. # 031600QK1 Source Name MAT Asphalt LLC								Date Received 7-17-2017						
Application # 17070024 Location Chicago Da							Date O	pened	7-18-20	)17				
Program S	STATE			Тур	e CON	NSTRUCT	ION			Title V Type	NEW	-		
Flag	Date			1	Conta	act		<del> </del>		<del>-    </del>	Expiration D	ate		
Emissions(To	ons/Year)		СО	NO	X	PM		SO	2	VOM	Total H	AP	Highest	Single HAP
Current Allow	vable Rates										-			
Project/Total	Increase	58	.98	24.4	<u> </u>	32.68	8	4.0	<u> </u>	21.51			· <del></del>	
Initial Compl	leteness		Analy	rst	Un	nit Manag	er		Date (	of Determination		Appl	ication Com	nlete?
CAAPP Com		N/A	<u> </u>		1		<u> </u>						Yes	No No
Fee Complete		N/A				<del></del>		<del> </del>		_			☐ √Yes	 
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## **Taylor, David**

From:

DoNotReply.EJRequest@illinois.gov

Sent:

Thursday, October 26, 2017 8:36 AM

To:

Rupel, Elizabeth; Frost, Brad; Pressnall, Chris; Taylor, David

Subject:

Outreach Status Change for MAT Asphalt LLC | 031600QKI | 17070024 | AIR

The EJ source (MAT Asphalt LLC) has moved forward in the outreach process on 10/26/2017.

The status has changed from \*Outreach In Progress\* to \*Complete - With Outreach \*.

## Taylor, David

From:

Donald.Sutton@ghd.com

Sent:

Thursday, October 26, 2017 8:43 AM

To:

Taylor, David; Bernoteit, Bob

Cc:

Charlie.Gjersvik@ghd.com; Steven.Ehrhard@ghd.com; Mike Tadin Jr

Subject:

[External] RE: Mat asphalt

David

Mat has no comments on the draft permit. Please issue final.

## Donald E. Sutton, P.E.

#### GHD

D: +1 217 717 9009 | T: +1 217 717 9000 | M: +1 217 691 8158 | E: donald.sutton@ghd.com 4133 Old Jacksonville Road Suite B Springfield IL 62711-8180 USA | www.ghd.com

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

Please consider our environment before printing this email

From: Taylor, David [mailto:David.Taylor@illinois.gov]

Sent: Thursday, October 26, 2017 8:39 AM

To: Donald Sutton < Donald.Sutton@ghd.com>; Bernoteit, Bob < Bob.Bernoteit@Illinois.gov>

Subject: RE: Mat asphalt

Don,

Did you all have any comments on the draft construction permit?

Thank you D. Taylor 217-785-1722



A Please consider the environment before printing this email.

From: <a href="mailto:Donald.Sutton@ghd.com">Donald.Sutton@ghd.com</a> [mailto:Donald.Sutton@ghd.com]

Sent: Thursday, October 26, 2017 8:19 AM To: Bernoteit, Bob <Bob.Bernoteit@Illinois.gov> Cc: Taylor, David <David.Taylor@illinois.gov>

Subject: [External] RE: Mat asphalt

Thanks, please see what you can do.

## Donald E. Sutton, P.E.

D: +1 217 717 9009 | T: +1 217 717 9000 | M: +1 217 691 8158 | E: donald.sutton@ghd.com 4133 Old Jacksonville Road Suite B Springfield IL 62711-8180 USA | www.ghd.com

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Please consider our environment before printing this email

From: Bernoteit, Bob [mailto:Bob.Bernoteit@Illinois.gov]

Sent: Thursday, October 26, 2017 8:03 AM

To: Donald Sutton < <u>Donald.Sutton@ghd.com</u>>
Cc: Taylor, David < <u>David.Taylor@illinois.gov</u>>

Subject: RE: Mat asphalt

Don,

We're working on it. We need to check with our EJ folks first.

Bob Bernoteit
FESOP Unit Manager,
Illinois EPA, Division of Air Pollution Control - Permit Section

From: Donald.Sutton@ghd.com [mailto:Donald.Sutton@ghd.com]

Sent: Thursday, October 26, 2017 8:01 AM

To: Taylor, David < David. Taylor@illinois.gov >; Bernoteit, Bob < Bob. Bernoteit@Illinois.gov >

Cc: Charlie.Gjersvik@ghd.com; Steven.Ehrhard@ghd.com; Mike Tadin Jr < mtadinir@marinacartage.com >

Subject: [External] Mat asphalt

David

Will the MAT Asphalt plant construction permit be issued today? Please advise.

Thanks

## Donald E. Sutton, P.E.

### **GHD**

D: +1 217 717 9009 | T: +1 217 717 9000 | M: +1 217 691 8158 | E: <u>donald.sutton@qhd.com</u> 4133 Old Jacksonville Road Suite B Springfield IL 62711-8180 USA | <u>www.qhd.com</u>

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#### Taylor, David

From:

Donald.Sutton@ghd.com

Sent:

Thursday, October 12, 2017 11:28 AM

To:

Taylor, David; Bernoteit, Bob

Cc:

Steven.Ehrhard@ghd.com; Charlie.Gjersvik@ghd.com; Jamie.Bessie@ghd.com; Mike

Tadin Jr

Subject: Attachments: [External] FW: Letter 2017-10-12 (4).pdf

#### David

Attached is the waiver letter you requested. MAT has no comments on the draft construction permit. Please issue final as soon as you can.

Thanks

Donald E. Sutton, P.E.

#### **GHD**

D: +1 217 717 9009 | T: +1 217 717 9000 | M: +1 217 691 8158 | E: donald.sutton@ghd.com 4133 Old Jacksonville Road Suite B Springfield IL 62711-8180 USA | www.ghd.com

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NOV 1 4 2017
REVIEWER JRIN



# MAT Asphalt, LLC

October 11, 2017

Reference No. 11140803

Mr. Raymond Pilapil
Manager, Permit Section
Division of Air Pollution Control
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O Box 19506
Springfield, Illinois 62794-9506

1384 - DIVISION OF RECORDS CLANAGEMENT RELEASABLE

NOV 1 4 2017

REVIEWER JRM

Dear Mr. Pilapil,

Re: Waiver Letter from MAT Asphalt, LLC.

MAT Asphalt, LLC (MAT) submitted an Air Pollution Control Permit application to construct an Asphalt Plant in Chicago, I.D. #0316000KI, on July 17, 2107, 2017 (Permit # 17070024). MAT has been asked to provide a written waiver to extend the Illinois Environmental Protection Agency (IEAO) statutory review deadline.

As requested, MAT is submitting this letter waiving the IEPA's 90-day review period and is extending the review period to October 26, 2017

MAT appreciates the IEPA's assistance with this permitting project. If you have any further questions or comments about the waiver, please contact me or Don Sutton, with GHD, at 217-717-9009

Sincerely,

Michael Tadin Jr.

MAT Asphalt, LLC.

031600 QKI 17 07 0024

# MAT Asphalt, LLC.

July 10, 2017

Mr. Raymond E. Pilapil
Manager, Permit Section
Division of Air Pollution Control
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P. 0. Box 19506
Springfield, Illinois 62794-9506

Dear Mr. Pilapil:

Re: MAT Asphalt, LLC
Hot Mix Asphalt Plant Construction Permit Application
Chicago, Cook County, Illinois

The purpose of this transmittal is to submit a Bureau of Air Construction Permit Application requesting authorization to construct a hot mix asphalt plant as described within the enclosed application. Once the plant has been constructed and tested, MAT plans to apply for the General FESOP for drum mix asphalt plants (G2951A2). Because of the Facility's location and the SIC Code for this type of operation, MAT is required to submit a Fugitive Particulate Control Operating Program (FOP) for mitigation of fugitive dust emissions. The FOP has been included as Exhibit 391-5 within the enclosed application.

Please advise us which Permit Analyst has been assigned to review this project and please provide a draft of the proposed construction permit for our review prior to issuance.

Enclosed is a check, in the amount of \$15,000, made payable to the Illinois EPA to cover the construction permit application fee for this project. As noted on form

RECEIVED STATE OF ILLINOIS

JUL 17 2017

Environmental Protection Agency
BUREAU OF AIR

197-FEE, there is a \$5,000 fee for permitting a new synthetic minor source and a \$10,000 fee for the construction of more than 6 new emission units at a synthetic minor source.

If you have any questions, please feel free to contact me, or Don Sutton, with GHD, at 217-717-9009.

Yours truly, Mulu Lad

MAT Asphalt, LLC

Michael Tadin Jr.



# **Hot Mix Asphalt Plant Construction Permit Application**

MAT Asphalt, LLC 2055 West Pershing Road Chicago, Illinois 60609

MAT Asphalt, LLC

**GHD** | 4133 Old Jacksonville Road Suite B Springfield Illinois 62711 8180 11140803 | 01 | \*\* | Report No 1 | July 17 2017



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	Fee	Determina	ation for Construction Permit Application (197-FEE)	7							
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		Storage Tank Data and Information (232-CAAPP)									
	Prod	Process Emission Unit Data and Information (220-CAAPP)									
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Silo Filling and Loadout HAP Emission Calculations
Storage Tank Emission Summary
Paved Road Traffic Fugitive Emission Calculations
Unpaved Road Traffic Fugitive Emission Calculations
Storage Pile Loading Fugitive Emission Calculations



## **Appendix Index**

Appendix A Equipment List

Appendix B Tanks 4.0.9d Reports



#### 1. Introduction

MAT Asphalt, LLC (MAT), is seeking authorization to construct a Hot Mix Asphalt Plant located at 2055 West Pershing Road, Chicago, Cook County, Illinois (Facility). The purpose of this application is to request authorization to construct equipment comprised of a 400 ton per hour Drum Mix Asphalt Plant. MAT is requesting throughput limitations matching the limits within General Federally Enforceable State Operating Permit (FESOP) G2951A2 and will apply for the General FESOP once stack testing has been completed as required by the New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities (40 CFR 60, Subparts A and I).

MAT is requesting that asphalt production be limited to 148,333 tons per month and 890,000 tons per year, the maximum amount allowable under the General FESOP for Drum-Mix Asphalt Plants subject to NSPS A and I. Table 1 in this application summarizes the Facility's potential to emit (PTE), the maximum controlled emissions based on the requested throughput limitations, and the expected typical controlled emission rates. Detailed calculations for the rates shown in Table 1 are provided in Tables 2-11. A listing of emission units has been included as Appendix A of this application. There will be a portable recycled material (RAP) crushing plant at the Facility.

#### 1.1 Regulatory Applicability Analysis

#### 1.1.1 Applicable Regulations

- The Drum Mix Asphalt Plant is subject to the New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities, 40 CFR 60, Subparts A & I. Pursuant to the NSPS, the baghouse will be required to undergo testing to verify compliance with the limitations in 40 CFR 60.92(a).
- Process emission sources at the Facility are subject to the particulate matter emission rate limitations of 35 IAC 212.321 (Process Weight Rate Rule).
- The Facility is subject to 35 IAC 123(a) & 123(b), which requires that no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere other than those emission units subject to 35 IAC 212.122. Pursuant to 35 IAC 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 Percent but not greater than 60% for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 1000 foot radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.
- Pursuant to 35 IAC 212.301, No person shall cause or allow the emission of fugitive particulate
  matter from any process, including any material handling or storage activity, that is visible by an
  observer looking generally toward the zenith at a point beyond the property line of the source.
- The Facility is subject to 35 IAC 218.301, which limits the emission of organic materials to less than 8 lbs/hr.

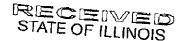


- The Facility is subject to 35 IAC 214.301, which requires that the emission of sulfur dioxide into the atmosphere must not exceed 2000 ppm from any process emission unit.
- The Asphalt Cement (AC) Storage Tanks are subject to the requirements of 35 IAC 218.122(b), which requires that the tanks are equipped with permanent submerged loading pipes or an equivalent device approved by the Agency according to the provisions of 35 III. Adm. Code 201, and further processed consistent with Section 218.108 of this Part, or unless such tank is a pressure tank as described in Section 218.121(a) of this Part or is fitted with a recovery system as described in Section 218.121(b)(2) of this Part.
- The Facility is required to have a fugitive dust plan pursuant to 35 IAC 212.302 because Asphalt Production falls under SIC 2951 and the plant is located in Cook County. The fugitive dust plan must meet the requirements of 35 IAC Sections 212.304 through 212.310 and 212.312. The dust plan has been included with this application as Exhibit 391-5 to be included with the fugitive dust data and information form (391-CAAPP) as required.

#### 1.1.2 Non-Applicable Regulations

- The Facility is not required to have an episode action plan pursuant to 35 IAC 244.142 because
  it does not meet any of the criteria listed in §244.142(a)-142(i).
- The Facility is not subject to the New Source Performance Standard (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart OOO pursuant to 40 CFR 60.670(c) because the crushing plant is portable and rated at 150 tons per hour.

MAT hereby requests that the Illinois EPA issue a construction permit for the Hot Mix Asphalt Plant as described within this application and requests the operation and emissions be limited to the values listed on the "maximum operation summary" on Table 1. MAT will apply for General FESOP G2951A2 once the plant has been constructed and the baghouse has been tested for compliance with the NSPS. Limits within the maximum emission summary on Table 1 are less than or equal to the limits of the General FESOP.





#### Illinois Environmental Protection Agency Division Of Air Pollution Control -- Permit Section P.O. Box 19506 Springfield, Illinois 62794-9506

JUL 1 7 2017

Environmental Protection Agency BUREAU OF AIR

#### Construction Permit Application For a FESOP Source (FORM APC628)

No Yes If Yes, provide BOA ID Number:

☑ No ☐ Yes If Yes, provide Permit Number:

Construction Permit Application For a FESOP Source (FORM APC628)  This form is to be used to supply information to obtain a construction permit for a pro	For Illinois EPA use only  BOA ID No.:  O316000KT  Application No.:  17070024  Date Received:
State Operating Permit (FESOP) or Synthetic Minor source, including construction of information must accompany this form as discussed in the "General Instructions For	a new FESOP source. Other necessary
Proposed Project	
Working Name of Proposed Project:     Hot Mix Asphalt Plant Construction	
2. Is the project occurring at a source that already has a permit from	n the Bureau of Air (BOA)?

FESOP issued by the BOA?  No  Yes If Yes, provide Permit Number:							
	Source Inf	ormation					
<ol> <li>Source name:*   MAT Asphalt, LLC</li> </ol>		<u> </u>					
6. Source street address:* 2055 W Pershing Ave							
7. City: Chicago	8. County: Cook		9. Zip code: 60609				
ONLY COMPLETE 1	HE FOLLOWING FOR	A SOURCE WITHO	OUT AN ID NUMBER.				
Is the source located within ci     If no, provide Township Nar		X Yes □ N	0				
Description of source and pro Asphalt Production	duct(s) produced:	12. Primary Classification Code of source: SIC: 2951 or NAICS:					
13. Latitude (DD:MM:SS.SSSS): 41:49:15.99	İ	14. Longitude	(DD:MM:SS.SSSS); 87:40:37.83				
* If this information different than previous	information, then comple	ete a new Form 200	-CAAPP to change the source name in initial				

3. Does this application request a revision to an existing construction permit issued by the BOA?

This Agency is authorized to require and you must disclose this Information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.

FESOP application for the source or Form APC-620 for Air Permit Name and/or Ownership Change if the FESOP has been

Applicant Information

☑ Owner

16. All correspondence to: (check one)

18. Attention name and/or title for written correspondence:

Operator

Source

previously issued.

15. Who is the applicant?

Operator

Michael Tadin Jr.

☑ Owner

17. Applicant's FEIN:

82-1607021

Owner Infor	mation*
19. Name: MAT Asphalt, LLC	- Industr
20. Address: 4450 South Morgan	
21. City: 22. State: Illinois	23. Zip code: 60609
* If this information different than previous information, then complete CAAPP Permit for an initial FESOP application for the source or Forthe FESOP has been previously issued.	te Form 272-CAAPP for a Request for Ownership Change for rm APC-620 for Air Permit Namo and/or Ownership Change if
Operator Information (If D	oifferent from Owner)*
24. Name Same as Owner.	
25. Address:	
26. City: 27. State:	28. Zip code:
<ul> <li>If this information different than previous information, then complete FESOP application for the source or Form APC-620 for Air Permit N previously issued.</li> </ul>	e a new Form 200-CAAPP to change the source name in initi- lame and/or Ownership Change if the FESOP has been
Technical Contacts	for Application
29. Preferred technical contact: (check one)	pplicant's contact Consultant
30. Applicant's technical contact person for application	n:
Michael Tadin Jr. MBR	
31. Contact person's telephone number	32. Contact person's email address:
	mtadinjr@marinacartage.com
33. Applicant's consultant for application:	
GHD Services Inc. (Don Sutton)	105 0 11 11 11 11
34. Consultant's telephone number: 217-717-9009	35. Consultant's email address: donald.sutton@ghd.com
Review Of Contents of	of the Annlication
36. Is the emission unit covered by this application alre	eady — —
constructed?  If "yes", provide the date construction was complet	Yes XI No
Note: The Illinois EPA is unable to issue a construction permit for a already been constructed.	emission unit that has
37. Does the application include a narrative description project?	n of the proposed Yes No
38. Does the application contain a list or summary that the emission units and air pollution control equipment of the project?	ent that are part
<ol> <li>Does the application include process flow diagram showing new and modified emission units and con- and related existing equipment and their relationsh</li> </ol>	trol equipment
40. If the project is at a source that has not previously permit from the BOA, does the application include description, plot plan and site map?	received a

Pavious Of Contante of the Application /c	
Review Of Contents of the Application (c	ontinuea)
41. Does the application include relevant information for the proposed project as requested on Illinois EPA, BOA application forms (or otherwise contain all the relevant information)?	⊠ Yes □ No
<ul> <li>42. Does the application identify and address all applicable or potentially applicable emissions standards, including:</li> <li>a. State emission standards (35 IAC Chapter I, Subtitle B);</li> <li>b. Federal New Source Performance Standards (40 CFR Part 60);</li> <li>c. Federal standards for HAPs (40 CFR Parts 61 and 63)?</li> </ul>	⊠ Yes □ No
43. Does the application address whether the proposed project or the source could be a major project for Prevention of Significant Deterioration (PSD), 40 CFR 52.21?	☑ Yes ☐ No . ☐ N/A
44. Does the application address for which pollutant(s) the proposed project or the source could be a major project for PSD, 40 CFR 52.21?	⊠ Yes □ No . □ N/A
45. Does the application address whether the proposed project or the source could be a major project for "Nonattainment New Source Review," (NA NSR), 35 IAC Part 203?	☐ Yes ☐ No ☒ N/A
46. Does the application address for which pollutant(s) the proposed project or the source could be a major project for NA NSR, 35 IAC Part 203?	☐ Yes ☐ No ☒ N/A
47. Does the application address whether the proposed project or the source could potentially be subject to federal Maximum Achievable Control Technology (MACT) standard under 40 CFR Part 63 for Hazardous Air Pollutants (HAP) and identify the standard that could be applicable?	☐ Yes ☐ No ☒ N/A* * Source not major ☒ Project not major ☒
48. Does the application identify the HAP(s) from the proposed project or the source that would trigger the applicability of a MACT standard under 40 CFR Part 63?	☐ Yes ☐ No ☒ N/A
49. Does the application include a summary of the current and the future potential emissions of the source after the proposed project has been completed for each criteria air pollutant and/or HAP (tons/year)?	Yes No No N/A*  * Applicability of PSD, NA NSR or 40 CFR 63 not applicable to the source's emissions.
50. Does the application include a summary of the requested permitted annual emissions of the proposed project for the new and modified emission units (tons/year)?	Yes No N/A*  * Project does not involve an increase in emissions from new or modified emission units.
51. Does the application include a summary of the requested permitted production, throughput, fuel, or raw material usage limits that correspond to the annual emissions limits of the proposed project for the new and modified emission units?	Yes No No N/A*  * Project does not involve an increase in emissions from new or modified emission units.
52. Does the application include sample calculations or methodology for the emission estimations and the requested emission limits?	⊠ Yes □ No
53. Does the application address the relationships with and implications of the proposed project for the source's FESOP?	Yes No N/A*
54. If the application contains information that is considered a TRADE SECRET, has such information been properly marked and claimed and other requirements to perfect such a claim been satisfied in accordance with 35 IAC Part 130?	■ Yes ■ No ☒ N/A*  No information in the application is claimed to be a TRADE SECRET
Note: "Claimed information will not be legally protected from disclosure to the public if it is not properly claimed or does not qualify as trade secret information.	

Review Of Contents of the Application (continued)								
55. If the source is located in a county other than Coc separate copies of this application being submittee		□ No						
56. If the source is located in Cook County, are three of this application being submitted?	Yes Yes	□ No						
57. Does the application include a completed "FEE D FOR CONSTRUCTION PERMIT APPLICATION," for the emission units and control equipment for w construction or modification is being sought?	Form 197-FEE,	□ No						
58. Does the application include a check in the prope payment of the Construction permit fee?	r amount for   Yes	□ No						
Note: Answering "No" to Items 36 through 58 may result in the application being deemed incomplete.								
Signature	Block							
Pursuant to 35 IAC 201.159, all applications and supplements thereto shall be signed by the owner and operator of the source, or their authorized agent, and shall be accompanied by evidence of authority to sign the application. Applications without a signed certification will be deemed incomplete.								
59. Authorized Signature:								
I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete and that I am a responsible official for the source, as defined by Section 39.5(1) of the Environmental Protection Act. In addition, the technical contact person identified above is authorized to submit (by hard copy and/or by electronic copy) any supplemental information related to this application that may be requested by the Illinois EPA.								
BY: Mala	Prosant	· · · · · · · · · · · · · · · · · · ·						
AUTHORIZED SIGNATURE	TITLE OF SIGN	IATORY						
_ midul Fran	7/10/2	.17						
TYPED OR PRINTED NAME OF SIGNATORY	DATE							



IL 533-276 ATION PAGE 7 197-FEE Rev. 1/2012

# Illinois Environmental Protection Agency

Bureau of Air • 1021 North Grand Avenue East • P.O. Box 19506 • Springfield • Illinois • 62794-9506

			FOR A	AGENCY US	E OI	VLY			
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. Contact Name:		el Tadin Jr.				Contact F		<b>,</b>	·····
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Section ( Subto		\$5,000.00	+ Section	2, 3 or 4 Subto	JUGII	\$10	,000.00	- = -	\$15,000.00 Grand Total
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New non-majo	r source	a. Proceed to S	Section 3.						Section 1 Subtotal
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his agency is authori opilcation being deni rm has been approv	ied and p	enalties under 4	15 ILCS 5 ET 8						could result in the this information. This
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Filing Fee. If t	the app	olication only a							as appropriate.
Filing Fee. If t Sections 3 and	the app I 4 and	olication only a	ctly to Section	on 5. Otherw	/ise,	proceed t			
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Application Page

Page 1 of 2

Sec	tion 3: Fees for Curi	ent or Projected Non-Major Sources		
9.	This application emission units.	9.		
10.	This application units. (\$1,000 fe	10		
11.	This application Section 39.2 of or a municipal w commercial pow	11		
12.	• •	cy rulemaking. (\$15,000 fee) is held (see instructions). (\$10,000 fee)	12,	
13.	, =	al. (fines 9 through 12 - entered on page 1)	_	\$0.00
Sec	tion 4: Fees for Cur	rent or Projected Major or Synthetic Minor Sources		
		14. For the first modified emission unit, enter \$2,000.	-	
	Application contains modified emission units only	15. Number of additional modified emission units = x \$1,000.	15	\$0.00
	dring Only	16. Line 14 plus line 15, or \$5,000, whichever is less.	16.	\$0.00
	A (! 4) 4 - !	17. For the first new emission unit, enter \$4,000.	17.	
	Application contains new and/or modified emission units	18. Number of additional new and/or modified emission units = 10 x \$1,000.	18.	\$10,000.00
		19. Line 17 plus line 18, or \$10,000, whichever is less.	19	\$10,000.00
	Application contains netting exercise	Number of individual pollutants that roly on a notting exercise or contemporaneous emissions decrease to avoid application of PSD or nonattainment area NSR = x \$3,000.	20	\$0.00
		21. If the new source or emission unit is subject to Section 39.2 of the Act (i.e. siting); a commercial incinerator or other municipal waste, hazardous waste, or waste tire incinerator; a commercial power generator; or one or more other emission units designated as a complex source by Agency rulemaking, enter \$25,000.	21	
	Additional Supplemental	22. If the source is a new major source subject to PSD, enter \$12,000.	22	
	Fees	23. If the project is a major modification subject to PSD, enter \$6,000.		
		24. If this is a new major source subject to nonattainment area (NAA) NSR, enter \$20,000.		
		25. If this is a major modification subject to NAA NSR, enter \$12,000.	25.	
		26. If the application involves a determination of MACT for a pollutant and the project is not subject to BACT or LAER for the related pollutant under PSD or NSR (e.g., VOM for organic HAP), enter \$5,000 per unit for which a determination is requested or otherwise requiredx \$5,000.	26	\$0.00
		27. If a public hearing is held (see instructions), enter \$10,000.	27.	
	28. Section 4 subtota	il (line 16 and lines 19 through 28) to be entered on page1	28	\$10,000.00
NO	I certify under penalty of contained in this fee ap	a signed certification will be deemed incomplete.  of law that, based on information and belief formed after reasonable inquiry, to plication form is true, accurate and complete.  Hunat  Signature  Title of Signatory	he inforr	nation
		ited Name of Signatory Date		

THIS CHECK HAS VARIOUS SECURITY FEATURES INCLUDING COLORED BACKGROUND, MICROPRINTING & WATERMAR

MAT CONSTRUCTION, INC. 4450 S. MORGAN ST. CHICAGO, IL 60609 773-254-5435

LAKESIDE BANK CHICAGO, ILLINOIS 2-150/710

22197 22197

FIFTEEN THOUSAND AND XX / 100

AMOUNT \$15,000.00

TO THE ORDER OF:

IL ENVIRONMENTAL PROTECTION AGENCY 1021 N. GRAND - E

SPRINGFIELD, IL: 62702

"022197" C071001504C

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3



#### ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION P.O. BOX 19506 SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE										
Revision #;										
Date:	_ /		1							
Page		of								
Source Designation:										

		Source Designation	
	FOR WALL FOR W	AGENCY USE ONLY	
HOT MIX ASPHALT PLANT	ID NUMBER:	miletini II. agirmati a ta sagire 1962 .	the themselvery the survey or
DATA AND INFORMATION	EMISSION POINT #:	<del></del>	
	DATE;		
SOURCEII	NFORMATION		
1) SOURCE NAME: MAT Asphalt, LLC			
2) DATE FORM PREPARED: 5/18/2017	3) SOURCE ID NO. (IF KNOWN): N	N/A	
	NFORMATION		
4) TYPE OF HOT MIX ASPHALT PLANT (BATCH MIX, CONTI Drum Mix	ŕ	fIX):	
5) DESCRIPTION OF PROCESS: Drum Mix Hot Asphalt			
6) FLOW DIAGRAM DESIGNATION OF EQUIPMENT (SPECI See Figure 2 and Appendix A.	FY FOR EACH EMISSION	UNIT):	
7) MANUFACTURER OF EQUIPMENT (SPECIFY FOR EACH Gencor	EMISSION UNIT):		
8) MODEL NUMBER (GIVE FOR EACH EMISSION UNIT): UltraRAP Drum	9) SERIAL NUMBER (GI TBD	IVE FOR EACH EMISS	SION UNIT):
10a) WAS THE HOT MIX ASPHALT PLANT CONSTRUCTED TO JUNE 11, 1973?	OR MODIFIED PRIOR	YES	Ø NO
b) IF YES, WAS THE HOT MIX ASPHALT PLANT CONSTR TO APRIL 14, 1972?	UCTED OR MODIFIED PR	RIOR YES	Ø NO
11) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A			

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2. PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

APPLICATION PAGE

FOR APPLICANT'S USE

Printed on Recycled Paper 234-CAAPP

12) DOES THE ASPHALT PLANT	HAVE	MODE THAN	``NIC :	MODE	or core.					
IF YES, EXPLAIN AND IDEN A SEPARATE HOT MIX ASP	FIEV MA	HICH MODE IN	-00	/EDED		_		O 4	'ES	⊗ NO
FOR EACH MODE):	•	0.0	JC,-	V-(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	USI BE U	JMPL	E I ED			
13) PROVIDE THE NAME AND D ASPHALT PLANT, IF APPLIC MUST BE COMPLETED FOR BARS);	ESIGN/ ABLE (I EACH	ATION OF AIR I FORM 260-CAA ITEM OF AIR F	POLL (PP A	UTION ND THI JTION (	CONTROL E APPROP CONTROL	EQU RIATI EQUII	IPMENT CO E 260-CAAF PMENT EXC	NTROI P ADD CEPT A	LLING ENDU	THIS HOT MIX IM FORM ATER SPRAY
Knockout Box & Baghouse i	n Seri	es								
14) WILL EMISSIONS DURING S' RATE PURSUANT TO A SPEC ESTABLISHED BY AN EXISTI						EMIS	SSION IT AS		<u> </u>	
IF YES, COMPLETE AND ATT EXCESS EMISSIONS DURING	ACH F	ODM 202 CAAE	מיי מכ	2000	JITION? ST TO OPE	RATE	E WITH	U YE	:S	⊠ NO
15) PROVIDE ANY LIMITATIONS STANDARDS (E.G., ONLY ON	ON SO	URCE OPERAT	ION	AFFEC	TING EMIS	SION	S OR ANY	WORK	PRAC	TICE
STANDARDS (E.G., ONLY ON Throughput Limitations - Sec			AT	4 TIME)	:					1102
		2222								
16) ATTACH THE CALCULATIONS FOLLOWING OPERATING INFO	TO T	OPERATION TH	<u> </u>	DE 415			ATED EDG	14 14 E II	01170	
BASED AND LABEL AS EXHIB	T 234-	TON, MATERIA 1. REFER TO S	L US SPEC	AGE IN	FORMATI TES OF FO	ON A	ND FUEL U 202-CAAPP,	SAGE I	JATA	WERE
17a) MAXIMUM OPERATING HOUR 8760	RS	HOURS/DAY	:		DAYS/W	EEK:	· <u> </u>	WEE	KS/YE	AR:
b) TYPICAL OPERATING HOURS	<del></del>	24				7			5.	
1680	•	HOURS/DĀY			DAYS/W	EEK: 5		WEE	(S/YE	
18) ANNUAL THROUGHPUT		DEC-FEB(%):		MAR	-MAY(%):		JUN-AUG(%	<u></u>		2 -NOV(%):
See Table 1.		5		1 00 1		35	•/•	0	25	
	ASPH	IALT PLANT	US	AGE	NFORM	4 T/O	ON .			<del></del>
		MAXIMUN	1 RA	TES			TY	PICAL	RATE	<u>:s</u>
19a) RAW MATERIALS	Ĺ	BS/HR		TONS/Y	'EAR		LBS/HR		T	ONS/YEAR
Aggregate		440,000		1,92	7,200		440,000			370,000
RAP & Concrete		320,000		1,40	1,600		600,0	00		425,000
Asphaltic Cement		40,000		17	5,200		40,0	00		34,000
		7						$\dashv$	<del>                                     </del>	

	MAXIMU	M RATES	TYPICAL	RATES		
19b) PRODUCTS	LBS/HR	TONS/YEAR	LBS/HR	TONSMEAR		
Asphalt	800,000	3,504,000	638,000	890,000		
				ļ <del></del>		
	MAXIMUM	M RATES	TYPICAL	DATES		
19c) BY-PRODUCT MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR		
N/A				10,10,12		
		<u> </u>				
		<del></del>	ļ			
40000			<u></u>			
20a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIF (MILLION B		FORMATION  c) DESIGN CAPACIT RATE (MILLION B	Y FIRING		
NG:109.5 FO: 109.5		2.5 FO: <b>62.5</b>	NG: 109.5	•		
d) FUEL TYPE:		_				
MATURAL GAS OFUE			<del></del>	<del></del>		
IF MORE THAN ONE FUEL IS U						
e) TYPICAL HEAT CONTENT OF F BTU/GAL OR BTU/SCF):	UEL (BTU/LB,	f) TYPICAL SULFI GAS):	UR CONTENT (WT %., I	NA FOR NATURAL		
NG: 1020 Btu/scf, F			NG: N/A, FO: 0.0015%			
g) TYPICAL ASH CONTENT (WT % GAS):	,, NA FOR NATURAL	h) ANNUAL FUEL SCF/YEAR, GA	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GALYEAR, TON/YEAR):			
N/A			~200 mmscf/yr or 1,800,000 gal/yr			
21) ARE COMBUSTION EMISSIONS PROCESS UNIT EMISSIONS?	DUCTED TO THE SA	AME STACK OR CONTR	ROL AS 🔘 Y	yes		
IF NO, IDENTIFY THE EXHAUST	POINT FOR COMBU	JSTION EMISSIONS:				

ASPHALT HEATER INFORMATION									
24a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING (MILLION BTU/)			c) DESIGN C RATE (MI					
N/A	N/A	Ą			N/	Ą			
d) FUEL TYPE:									
	.: GRADE NUMBER					one			
IF MORE THAN ONE FUEL IS USED	, ATTACH AN EXPLA	OITANA	N AND LABEI	L AS EXHIBIT	234-3.				
e) TYPICAL HEAT CONTENT OF FUEL BTU/GAL OR BTU/SCF):	(BTU/LB,	f) TYF	PICAL SULFU S):	R CONTENT (	WT %.,	NA FOR NATURAL			
N/A				N/A					
g) ANNUAL FUEL USAGE (SPECIFY UN SCF/YEAR, GAL/YEAR, TON/YEAR):	h) TYF GA:	PICAL ASH CO S):	ONTENT (WT	%., NA	FOR NATURAL				
N/A			N/A						
25a) MAXIMUM OPERATING HOURS		DAYS/WEE	K:	WEE	(S/YEAR:				
8760	24			7		52			
b) TYPICAL OPERATING HOURS	HOURS/DAY:		DAYS/WEE		WEEK	(S/YEAR:			
1680 26) ANNUAL THROUGHPUT	DEC-FEB(%):	1 445		5	<u></u>	37			
20) ANNOAE TAROUGAPUT	5	MAR	-MAY(%):	JUN-AUG(9	6);	SEP-NOV(%):			
	35 35				25				
APPLICABLE RULES									
ANY ASPHALT PLANT THAT COMMENCES CONSTRUCTION OR MODIFICATION AFTER JUNE 11, 1973, IS SUBJECT TO NEW SOURCE PERFORMANCE STANDARDS (NSPS) SUBPART I FOR HOT MIX ASPHALT PLANT FACILITIES. EXISTING (PRIOR TO APRIL 14, 1972) ASPHALT PLANTS ARE SUBJECT TO SECTION 212.322. NEW (AFTER APRIL 14, 1972) ASPHALT PLANTS ARE SUBJECT TO SECTION 212.321.									
27) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE TO THIS ASPHALT PLANT (E.G., PART. MATTER, IAC 212.321, <= 62 LBS/HR):									
REGULATED AIR POLLUTANT(S)	ANDARI	D(S)	RE	QUIREM	ENT(S)				
See Section 1.1.									
	<u></u>			L					
28) PROVIDE ANY SPECIFIC RECORDKE	EPING RULE(S) WH	ICH AR	E APPLICABI	LE TO THIS A	SPHALI	PLANT:			
REGULATED AIR POLLUTANT(S)	RECORDKEEP	ING RUL	-E(S)	RE	QUIREM	ENT(S)			
See Section 1.1.									
			-						
		·		<u> </u>	<del></del>				
			-						
	L			<u>L</u>					

29) PROVIDE ANY SPECIFIC REPORTING	G RULE(S) WHICH ARE APPLICABLE TO	O THIS ASPHALT PLANT:						
REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)						
See Section 1.1.								
<u> </u>								
30) PROVIDE ANY SPECIFIC MONITORIN	IG RULE(S) WHICH ARE APPLICABLE T	O THIS ASPHALT PLANT:						
REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)						
	\'\							
See Section 1.1.								
31) PROVIDE ANY SPECIFIC TESTING RI PLANT:	JLES AND/OR PROCEDURES WHICH A	RE APPLICABLE TO THIS ASPHALT						
REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)						
See Section 1.1.								
32) DOES THE ASPHALT PLANT QUALIFY	FOR AN EXEMPTION EROM ANY DUIL	<u></u>						
		U YES W NO						
IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED								
SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 234-4, OR REFER TO OTHER								
ATTACHMENTS WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.								
*								
	COMPLIANCE INFORMATION							
33) IS THE ASPHALT PLANT IN COMPLIA	NCE WITH ALL APPLICABLE REQUIRE	MENTS7: X YES NO						
IF NO. THEN FORM 294-CAAPP "COM	IPLIANCE PLAN/SCHEDULE OF COMPL							
NONCOMPLYING EMISSION UNITS'	IF NO, THEN FORM 284-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE ADDENDUM FOR NONCOMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.							
34) EXPLANATION OF HOW INITIAL COM	DI IANOE IO TO DE COLLADO EDELIGICA							
Maximum Throughput, Baghouse F	Rating Hours of Operation with A	SLY, DEMONSTRATED: P-42 & NSDS Emission Englars						
, and the second	sating, round by operation, with re	THE WINDS CHINGSION TROUGH						
		j						
	<u> </u>							
35) EXPLANATION OF HOW ONGOING C								
Throughput and Operation Records	ceeping with AP-42 & NSPS Emis	sion Factors						
		<u></u>						

**APPLICATION PAGE** 

TES	TING MONITORING DE	CORDKEEPING AND REPO	7700
36a) LIST THE PARAMETE	RS THAT RELATE TO AIR EMI	SSIONS FOR WHICH PECOPDS AT	DE DEIMO MAINITAINED
I IE.G. TUNS OF ASPR	ALL LIGHTERMINE GERY C	RULE APPLICABILITY OR COMPLIA , AND THE FREQUENCY OF SUCH	10E NO. 115 - 1 - 1 - 1 - 1
(E.G., HOURLY, DAILY	, WEEKLY):	TAND THE PREGGENCY OF SUCH	RECORDS
PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Throughput	Tons	Log	Monthly
Operation	Hours	Log	Monthly
			<del></del>
<del> </del>	<u> </u>		
			<u> </u>
b) BRIEFLY DESCRIBE TH	E METHOD BY WHICH RECO	RDS WILL BE CREATED AND MAIN RECORDKEEPING, TITLE OF PER	TAINED, FOR EACH
RECORDKEEPING, AND	O TITLE OF PERSON TO CONT	ACT FOR REVIEW OF RECORDS:	RSON RESPONSIBLE FOR
	METHOD OF	TITLE OF	Milma et a.e.
PARAMETER	RECORDKEEPING	PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Throughput	Log	Environmental Manager	Environmental Mngr
Operation	Hours	Environmental Manager	Environmental Mngr
<del></del>			
C) IS COMPLIANCE OF THE THE RECORDS?	E EMISSION UNIT READILY DI	EMONSTRATED BY REVIEW OF	X YES ONO
IE NO EVELANA			
IF NO, EXPLAIN:			
d) ARE ALL RECORDS REA	ADILY AVAILABLE FOR INSPE	CTION COPYING AND	
SUBMITTAL TO THE AGI	ENCY UPON REQUEST?	onen, commonto	
IF NO, EXPLAIN:			
			-
37a) DESCRIBE ANY MONITO COMPLIANCE:	ORS OR MONITORING ACTIV	ITIES USED TO DETERMINE FEES	RULE APPLICABILITY OR
Throughput & Operation	Recordkeening		ļ
	· · · · · · · · · · · · · · · · · · ·		

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.C., DRYER TEMPERATURE)?		<del> </del>
Throughput		
c) DESCRIBE THE LOCATION OF EACH MONITOR:		
N/A		
d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	O YES	$\overline{\Box}$
IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE;	U YES	ОиО
N/A		
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY		
BASIS7	U YES	U NO
IF NO, EXPLAIN:		
N/A		
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS		
IN OPERATION?	U YES	Ои О
IF NO, EXPLAIN:		
N/A		
38) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESL	TO ARE LIGHT	
I PURPOSES OF THE DETERMINATION OF FEFS. RULE APPLICABILITY OR COMPLIANT	'E MOLLINE TH	r trot
DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS	3 DURING THE T EXHIBIT 234-5	EST AND A
OPERATING.		
TEST DATE TEST METHOD TESTING COMPANY CONDITIONS	SUMMARY OF F	RESULTS
N/A		
	<del></del>	<del></del>
	L	
39) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUE	NOV OF DEPOR	
SUBMITTALS TO THE AGENCY:	NOT OF REPORT	
REPORTING REQUIREMENTS TITLE OF REPORT	FREQUENCY	
Emissions Annual Emissions Report Annua	lly	
	<u> </u>	
	<del></del>	

See Table 1.

					(40)	MOISSIME	(40) EMISSION INFORMATION				
			O 1ACTUAL EMISSION UNCONTROLLED	MISSION RATE OLLED EMISSION RATE		<u> </u>	ALLOWABLE	ALLOWABLE BY RULE EMISSION RATE	ION RATE	PERMITTED EMISSION RATE	SSION RATE
REGULATED AIR POLLUTANT		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	30THER TERMS	30THER TERMS	MQ <sup>4</sup>	<sup>5</sup> RATE (UNITS)	APPLICABLE	TONS PER YEAR	RATE (UNITS)	TONS PER YEAR
CARBON	MAXIMUM:			<b>├</b>				AOCES	( ICINS/YR)		(TONS/YR)
MONOXIDE (CO)	TYPICAL										
LEAD	MAXIMUM:									and the second s	Charles and Control of the Control o
	TYPICAL									And the second s	
NITROGEN	MAXIMUM:										
OXIDES (NOx)	TYPICAL										
PARTICULATE	KAXIMUM:										
MATTER (PART)	TYPICAL										
PARTICULATE MATTER <= 10	MAXIMUM:										The second secon
MICROMETERS (PM10)	TYPICAL:										
SULFUR	MAXIMUM:										
DIOXIDE (SOZ)	TYPICAL										
VOLATILE ORGANIC	MAXIMUM:									man and a company of the contract of the contr	1,1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 t
MATERIAL (VOM)	TYPICAL:										
OTHER, SPECIFY:	MAXUMUM:										The state of the s
	TYPICAL								!		
EXAMPLE	27.60					 ][					
	MANUM: -	5.00	21.9	GR/DSCF			6.0 (LBS/HR)	212,321	26.28	5.5 LBS/HR	22
	TYPICAL:	4.00	14.4	0.24 GRDSCF	<del>-</del>	4	5.5 (LBS/HR)	212.321	19.80		- Carre
						]	T		,,,,,		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 232-4.

1CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
2PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
3PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQLIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GRUDSCF, ETC.)
4DM - DETERMINATION METHOD: 1) STACK TEST. 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP 42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP 42 OR AIRS)
5RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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N	ALLOWABLE BY RULE	<sup>5</sup> RATE OR STANDARD APPLICABLE	אסרוב																	98% by wt control device CFR 61 leak-tight mcks 61.302(5) (d)
VEORMATI		4pm																		CV CV
T EMISSION II	E SION RATE	3OTHER TERMS					 													
IR POLLUTAN	☐ 1actual Emission Rate ☐ 1uncontrolled Emission Rate	TONS PER YEAR (TONS/YR)																	, , ,	.0.8
) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION	O 1ACTUAL	POUNDS PER HOUR (LBS/HR)	<u> </u>									-		,					000	
(41)			MAXIMUM:	TYPICAL	MAXIMUM:	TYPICAL	MAXIMUM:	TYPICAL:	MAXIMUM:	TYPICAL	MAXIMUM:	TYPICAL	MAXIMUM:	TYPICAL:	MAXIMUM:	TYPICAL	MAXIMUM:	TYPICAL:	, MAXIMUM:	TYPICAL
	4 TION	2CAS NUMBER		<del></del>												_				71432
	HAP INFORMATION	NAME OF HAP EMITTED												•					EXAMPLE:	Benzene TYPICAL

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 232-7.

1PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS, CHECK BOX TO SPECIFY.
2CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
3PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GRIDSCF, ETC.).
4DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE MULE.

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234-CAAIPP

EYHALIST DOINT INCODMATION								
EXHAUST POINT INFORMATION  THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.								
42) FLOW DIAGRAM DESIGNATION OF		XHAUSTED THROUGH	AIR POLLUTION CONTROL EQUIPMENT.					
	Exhausts through control equipment, See 260-CAAPP Form.							
	43) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT							
DISCHARGES INDOORS, DO NOT (	(STACK, VENT, RO- COMPLETE THE REA	OF MONITOR, INDO MAINING ITEMS.	ORS, ETC.). IF THE EXHAUST POINT					
44) DISTANCE TO NEAREST PLANT 80	DUNDARY FROM EXI	HAUST POINT DISCH	HARGE (FT):					
45) DISCHARGE HEIGHT ABOVE GRAD	DE (FT):							
46) GOOD ENGINEERING PRACTICE (C	BEP) HEIGHT, IF KNO	OWN (FT):						
47) DIAMETER OF EXHAUST POINT (FT 1.128 TIMES THE SQUARE ROOT O	): NOTE: FOR A NO F THE AREA.	ON CIRCULAR EXHA	JST POINT, THE DIAMETER IS					
48) EXIT GAS FLOW RATE	a) MAXIMUM (ACF	a) MAXIMUM (ACFM): b) TYPICAL (ACFM):						
49) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):		b) TYPICAL (°F):					
50) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):								
51) LIST ALL EMISSION UNITS AND COI	NTROL DEVICES SE	RVED BY THIS EXH	AUST POINT:					
NAME			W DIAGRAM DESIGNATION					
a)								
b)								
c)								
d)			<del>- , - , - , - , - , - , - , - , - , - ,</del>					
e)								
			··· <u> </u>					
THE FOLLOWING INFORMATION NEED ONLY 52a) LATITUDE:	BE SUPPLIED IF READ							
VZaj CATHOUE.		b) LONGITUDE:						
53) UTM ZONE:	b) UTM VERTICAL	(KM):	c) UTM HORIZONTAL (KM);					



#### ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION P.O. BOX 19506 SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #:
Date: / /
Page of
Source Designation:

# STORAGE TANK DATA AND INFORMATION

FOR AGE	NCY USE ONLY	3
the state of the s		ù.
ID NUMBER:		
EMISSION POINT #:		
DATE:		

NOTE: THIS INFORMATION FORM MUST BE COMPLETED FOR ANY TANK USED IN THE STORAGE OF AN ORGANIC LIQUID OR ANY MATERIALS CONTAINING HAZARDOUS AIR POLLUTANTS. FOR TANKS USED FOR PURPOSES OTHER THAN STORAGE, SUCH AS MIXING TANKS, DAY TANKS, PROCESS TANKS, ETC., PLEASE COMPLETE FORM 220-CAAPP.

	FORMATION						
1) SOURCE NAME:							
MAT Asphalt, LLC							
2) DATE FORM PREPARED: 5/18/17	3) SOURCE ID NO.						
PREPARED: 5/18/17	(IF KNOWN): N/A						
	<del></del>						
	NFORMATION						
4) TANK DESIGNATION:							
3 Asphalt Cement (AC) Storage Tanks							
5) FLOW DIAGRAM DESIGNATION OF TANK:							
AC Storage Tanks (Figure 2)							
6) MANUFACTURER OF TANK (IF KNOWN):							
Gencor							
7) SERIAL NUMBER (IF KNOWN): TBD							
8) DATES OF COMMENCING CONSTRUCTION.	a) CONCTRUCTION (MONTHOGRAP)						
OPERATION AND/OR MOST RECENT MODIFICATION OF THIS TANK (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): Upon issuance of permit.						
	b) OPERATION (MONTH/YEAR):						
	Upon completion of construction.						
	c) LATEST MODIFICATION (MONTH/YEAR):						
	N/A						
9) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A							
10) DOES THE TANK HAVE MORE THAN ONE MODE OF OPE (E.G., IS THERE MORE THAN ONE PRODUCT STORED IN	RATION? THE TANK?)  O YES  NO						
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVER 232-CAAPP MUST BE COMPLETED FOR EACH MODE):	RED BY THIS APPLICATION (NOTE: A SEPARATE FORM						
<del>-</del>							

I HIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

**APPLICATION PAGE** 

FOR APPLICANT'S USE

11) PROVIDE THE NAME AND DES	IGNATION OF AL	LL AIR POLLUTION C	CONTROL EQUIPMENT CONTROLLING THIS
TANK, IF APPLICABLE (FORM: MUST BE COMPLETED FOR EA	/NU-CAAPP ANI)	THE VENDOUS INTE	260 CAADD ADDENDUNA FORM
N/A	AOITH LOUGH TO	RPOLLO HON GOITH	ROL EQUIPMENT):
12) PROVIDE ANY LIMITATIONS O STANDARDS (E.G., PRODUCTI	N SOURCE OPER	RATION AFFECTING	EMISSIONS OR ANY WORK PRACTICE
N/A	Olf At Him Cr. T	E14.,	
<del></del>	TAA	W MEODES ATIO	
13) TANK CAPACITY (SPECIFY BAI	RRELS OR GALL	NK INFORMATIO	
		´ 35,000 G	allons (each)
14) TANK DIAMETER OR WIDTH (F		HEIGHT (FT):	16) TANK LENGTH (FT):
12	42		N/A
17) TANK SHAPE (CHECK ONE):			
	YLINDRICAL		IZONTAL
U 0	THER; SPECIFY:		
18) OUTSIDE COLOR OF			
TANK (CHECK ONE): W	/HITE	SILVE	<del>-</del> R
(T)	THEO, OPENIEW		
-		Black	
19) TANK CONDITION (CHECK ONE):			
(CHECK ONE): GO 20) TANK LOCATION	DOD	() FAIR	O POOR
(CHECK ONE): UN	NDERGROUND	ABO	/EGROUND
21) TANK TYPE (CHECK ONE):		$\cap$	
· W Fix	XED ROOF		SSURE
	CTERNAL FLOATI DOF	NG UNTE	RNAL FLOATING ROOF
U ∨	RIABLE VAPOR :	SPACE;	
SP	PECIFY VOLUME I	EXPANSION CAPAC	ITY (bbl):
O T	THER; SPECIFY:		•
22) VENT VALVE INFORMATION:	<del></del>		
•	NUMBER	PRESSURE	
TYPE OF VENT	OF VENTS	SETTING (PSIG)	DISCHARGE VENTED TO (ATMOSPHERE, FLARE, VAPOR CONTROL, ETC.)
COMBINATION	N/A		
PRESSURE	N/A		
VACUUM	N/A		
OPEN	TBD	0.00	Atmosphere
THE INFORMATION IN ITEMS 23 ANI 23a) LATITUDE:	D 24 BELOW NEE	D ONLY BE PROVID b) LONGITU	ED IF READILY AVAILABLE
		0,20	DE:
24a) UTM ZONE:	b) UTM VER	TICAL (KM):	c) UTM HORIZONTAL (KM):

APPLICATION PAGE \_\_

	HROUGHPUT INFORMATION			
25) CHEMICAL NAME OF MATERIAL STORED:				
Asphalt Cement				
26) CAS NO. (IF KNOWN):	27) DENSITY			
N/A	(LB/CU.FT.):			
	(LB/GALLON): 9.17			
28) VAPOR PRESSURE AT 70 DEGREES	29) MOLECULAR WEIGHT			
FAHRENHEIT (PSIA):	(LB/LB-MOLE):			
0.00000824	1,000			
30) VAPOR PRESSURE AT MAXIMUM STORAGE TEMPERAT	URE (PSIA):			
0.0347				
31) METHOD USED TO				
DETERMINE VAPOR PRESSURE PURSUANT ASTM D2879-86	PUBLISHED LITERATURE, LIST:			
TO 35 ILL. ADM. CODE	Antoine's equation with parameters			
215.108, 218.109-111, OR 219.109-111:				
OK 219, 103-111.	listed in AP-42 Section 11.1			
OTHER; SPECIFY:				
32) STORAGE TEMPERATURE				
MINIMUM (DEGREES FAHRENHEIT): 0.75	MAXIMUM (DEGREES FAHRENHEIT):			
275	350			
33) THROUGHPUT				
GAL/DAY:	GAL/YR:			
264,300	36,750,000 Potential			
BBLS/DAY:	BBLS/YR:			
•				
34) MAXIMUM FILL RATE (GAL/HR): TBD				
100				
35) IS A PERMANENT SUBMERGED LOADING PIPE USED?				
36) IS A VAPOR BALANCE LINE USED?	☐ YES 🔘 NO			
37) IS ANY OTHER VAPOR LOSS CONTROL DEVICE USED (OTHER THAN VAPOR YES NO				
BALANCE)?				
IF YES, COMPLETE "AIR POLLUTION CONTROL EQUIPM				
INFORMATION, " (FORM 260-CAAPP), AS PART OF THIS	APPLICATION.			
38) ATTACH THE CALCULATIONS, TO THE EXTENT THEY AF				
PRECEDING INFORMATION, MATERIAL STORAGE INFOR BASED AND LABEL AS EXHIBIT 232-1.	WATION AND THROUGHPUT DATA WERE			

APPLICABLE RULES					
39) PROVIDE ANY SPECIFIC EMISSION TO THIS TANK (E.G., VOM, IAC 218.1	STANDARD(S) AND LIMITATIONS(S) S 21(a), PRESSURE TANK):	ET BY RULE(S) WHICH ARE APPLICABLE			
REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)			
40) PROVIDE ANY SPECIFIC RECORDER	EPING RULE(S) WHICH ARE APPLICA	BLE TO THIS TANK:			
REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)			
41) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS TANK:					
REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)			
42) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS TANK:					
REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)			
	<u> </u>				
43) PROVIDE ANY SPECIFIC TESTING RU	JLES AND/OR PROCEDURES WHICH A	ARE APPLICABLE TO THIS TANK:			
REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)			
44) DOES THE TANK QUALIFY FOR AN E APPLICABLE RULE?	XEMPTION FROM AN OTHERWISE	O yes 🛛 NO			
IF YES, THEN LIST BOTH THE RULE I	FROM WHICH IT IS EXEMPT AND THE	RULE WHICH ALLOWS THE			
EXEMPTION. PROVIDE A DETAILED SUPPORTING DATA AND CALCULATE	EXPLANATION JUSTIFYING THE EXEM ONS. ATTACH AND LABEL AS EXHIBI	PTION, INCLUDE DETAILED  1 232-2 OR REFER TO OTHER			
ATTACHMENT(S) WHICH ADDRESS A	ND JUSTIFY THIS EXEMPTION.	1 2022, ON NEI EN TO OTTER			
COMPLIANCE INFORMATION  45) IS THE TANK IN COMPLIANCE WITH ALL ARRIVES BEGUNDENCE TO TANK IN COMPLIANCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDED WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES BEGUNDENCE WITH ALL ARRIVES					
45) IS THE TANK IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?: X YES NO					
IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.					
46) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:					
Maximum Throughput, Use of EPA					

47) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:	
Throughput recordkeeping, use of EPA TANKS 4.0.9d	
TESTING, MONITORING, RECORDKEEPING AND REPO	PTINC
48a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS A	DE DEINO MAINTAINED TO
I DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE INCLUDE THE UNIT OF A	MEASUREMENT THE
METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOL	URLY, DAILY, WEEKLY):
PARAMETER UNIT OF MEASUREMENT METHOD OF MEASUREMENT	FREQUENCY
N/A	
b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAIN	TAINED, FOR EACH
RECORDED PARAMETER INCLUDE THE METHOD OF RECORDIFERING. TITLE OF PER	RSON RESPONSIBLE FOR
RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:	
METHOD OF TITLE OF	TITLE OF
PARAMETER RECORDICEPING PERSON RESPONSIBLE	CONTACT PERSON
N/A	
c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS?	X YES NO
THE RECORDS?	C 120 C NO
IF NO, EXPLAIN;	
JACK ALL DECORDE DELETINATION AND AND AND AND AND AND AND AND AND AN	
d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST?	X YES NO
SOUNT IN TO THE NOTITO OF OFF NEEDEST	
IF NO, EXPLAIN:	
49a) DESCRIBE ANY EMISSION MONITORS USED TO DETERMINE FEES, RULE APPLICABIL	174 00 00 to
	ITY OR COMPLIANCE:
N/A	
b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., TEMPERATURE)?	
N/A	
	j

49c) DESCRIBE THE LOCATION OF EACH MONITOR:		-
N/A		
d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	YES	O NO
IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE;		
N/A		
·	•	
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	YES	O NO
	•	<u> </u>
IF NO, EXPLAIN:		
N/A		
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED TANK IS IN	YES	O NO
OPERATION?	<u> </u>	<u> </u>
IF NO, EXPLAIN:		
N/A		
50) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESU	JLTS ARE USED I	OR
PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIAN DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTIN	CE. INCLUDE TH	E TEST
SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS	EXHIBIT 232-3:	LOTANDA
OPERATING		
TEST DATE TEST METHOD TESTING COMPANY CONDITIONS	SUMMARY OF F	RESULTS
N/A		
		J
51) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUE	NOV OF BEDORT	
SUBMITTALS TO THE AGENCY:	NCT OF REPORT	
REPORTING REQUIREMENTS TITLE OF REPORT	FREQUENCY	
Emissions Annual Emissions Report Annual		<del>-                                    </del>
	· <i>y</i>	
		<del> </del>
	_	

					(52)E	HISSION	(52) EMISSION INFORMATION	TION				
			O 1 ACTUAL EMISSION RATE O 1 UNCONTROLLED EMISSION	ISSION RATE	N RATE		ALLO	WABLE BY	ALLOWABLE BY RULE EMISSION RATE	ON RATE	<sup>2</sup> PERMITTED EMISSION RATE	SION RATE
REGULATED AIR POLLUTANT		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	<sup>3</sup> OTHER TERMS	<sup>3</sup> OTHER TERMS	4 <sub>DM</sub>	5RATE	(SLIND)	APPLICABLE RULES	TONS PER YEAR (TONSYR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON	MAXIMUM:							^				
MONOXIDE (CO)	TYPICAL:							<u> </u>				
LEAD	MAXIMUM:							_				
	TYP:CAL:							<u> </u>			the manufacture of the state of	
NITROGEN	MAXIMUM:										and another to the party of the second of the	
OXIDES (NOx)	TYP:CAL:											more friends as
PARTICULATE	MAXIMUM:											
MATTER (PART)	TYPICAL:										and the second s	
PARTICULATE	MAXIMUM:						<u></u>					
MICROMETERS (PM10)	TYPICAL							^ 			and the same of th	
SULFUR	MAXIMUM:							^ _				
DIOXIDE (SO2)	TYPICAL:											
VOLATILE ORGANIC	MAXIMUM:											
MATERIAL (VOM)	TYP CAL:											
OTHER, SPECIFY:	MAXIMUM:										and the same of th	
	TYPICAL										k a commence of the commence o	7
EXAMPLE DADTIC III ATE	MAXINUM:	.500	.27.9	0.3			807	(80 // BS/HB)	219 391	96.36	ary so 1 3 3	00
MATTER				0.24				<u> </u>		51	2.0	77
	TYPICAL:	4.00	14.4	GROSCF		4	5.5 (17	5.5 (LBS/HR)	212.321	19.80		
	1	!					ı	!				

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, DN WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 2324.

1CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS. PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

SPLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OF THAT WAS MEASURED (E.G. PPM, GRUSCF, ETC.)

4DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP 42 OR AIRS). 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP 42 OR AIRS)

SRATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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See Table 10.

POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   VERNER   POUNDE PER   POUNDE PER   VERNER   POUNDE PER		(5;	(53) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION	AIR POLLUTAN	VI EMISSION IN	FORMA TH	NC.		
P         2 <sub>CAS</sub> POUNDS PER (LBS/HR)         TONS PER (LBS/HR)<	HAP INFORM	ATION		O 1ACTU	AL EMISSION RA' NTROLLED EMIS	TE SION RATE			
TYPICAL   TYPI	NAME OF HAP EMITTED	<sup>2</sup> CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	3OTHER TERMS	4DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE RUI F
TYPICAL			MAXIMUM:				į		
TYPICAL   MAXMUM   MAXMUM   MAXMUM   TYPICAL		TYPICAL:							
TYPICAL   WAXMUIM   TYPICAL   WAXMUIM   TYPICAL   WAXMUIM   TYPICAL   WAXMUIM   TYPICAL   WAXMUIM   TYPICAL   WAXMUIM   TYPICAL   WAXMUIM   TYPICAL   WAXMUIM   TYPICAL   TYPICAL   WAXMUIM   TYPICAL   TYPICAL   TYPICAL   TYPICAL   WAXMUIM   TYPICAL   TYPI			MAXIMUM:						
TYPICAL:   TYPICAL:			TYPICAL						
TYPICAL:   WASIMUM   WASIMUM   TYPICAL:   TYPICA			MAXIMUM:						
TYPICAL   MAXIMUM   TYPICAL   MAXIMUM   TYPICAL   MAXIMUM   TYPICAL   MAXIMUM   TYPICAL   MAXIMUM   TYPICAL   MAXIMUM   TOOIT of device   TYPICAL   MAXIMUM   TOO			TYPICAL						
TYPICAL:			MAXIMUME						
TYPICAL:   TYPICAL:			TYPICAL:						
TYPICAL:   TYPICAL:			MAXIMUME						
TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TO.0			TYPICAL:						
TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   TYPICAL:   1.2   98% by wt control device   TYPICAL:   2   98% by wt control device   TYPICAL:   3   5   5   5   5   5   5   5   5   5			MAXIMUM;						:
TYPICAL:			TYPICAL:						
TYPICAL:   NAXIMUM:   10.0   1.2   98% by wt control device   1.2   98% by wt control device   1.2   1.2   1.2   1.2   1.2   1.2   1.3			MAXIMUM:						
TYPICAL:   TYPICAL:   10.0   1.2   98% by wt control device   174.22   17			TYPICAL:						
TYPICAL:   10.0   1.2   98% by wt control device   174.32   170.0   1.2   170.0   17			MAXIMUM:						
MAXIMUM: 10.0 1.2 2 98% by wt control device			TYPICAL:						
71422 POTA DA NO CONTO DEVICE			. MAXIMUM:	100	10		,	,,,,,,	
0.0		71432	TYPICAL	8.0	8.0				3

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 232-4.

PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS JSED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOCRS. CHECK BOX TO SPECIFY.

2CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GRUDSCF, ETC.).
DIM - DETERMINATION METHOD: 1) STACK TEST, 2, MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
FRATE - ALLOWABLE EM SSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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#### N/A - Fixed Roof Tanks.

	NG ROOF TANK EQUIPME	ENT INFORMATION (IF APPLICABLE)
54) FLOATING ROOF TYPE (CHECK ONE):	O INTERNAL OTHER; SPECIFY:	O EXTERNAL
55) PRIMARY SEAL TYPE (CHECK ONE):	METALLIC SHOE SEAL OTHER; SPECIFY:	LIQUID MOUNTED VAPOR MOUNTED RESILIENT SEAL
56) IS THE FLOATING ROO	F EQUIPPED WITH A SECONDA	ARY SEAL? YES NO
IF YES, HOW IS THE SECONDARY SEAL MOUNTED? (CHECK ONE):	SHOE OTHER; SPECIFY:	O RIM
57) IS THE FLOATING ROO	F EQUIPPED WITH A WEATHER	R SHIELD? NO
58) WHAT IS THE AVERAG	E WIND SPEED AT THE TANK S	ITE (MILES/HR)?
59) WHAT IS THE CONDITION OF THE TANK SHELL INTERIOR? (CHECK ONE):	LIGHT RUST OTHER; EXPLAIN:	DENSE RUST GUNITE LINED
60) FOR COLUMN SUPPOR	TED TANKS, COMPLETE THE F	OLLOWING:
	UMBER OF COLUMNS	DIAMETER OF EACH COLUMN (FT)
61) FOR INTERNAL FLOAT	NG ROOF TANKS, COMPLETE 1	THE FOLLOWING:
a) WHAT IS THE METHOD OF BONDING FOR THE DECK?	BOLTING OTHER; SPECIFY:	WELDING
b) WHAT IS THE TOTAL L	ENGTH OF ALL DECK SEAMS (F	-т)?
c) WHAT IS THE DIAMETE	ER OF THE DECK (FT)?	

## N/A - Fixed Roof Tanks

····	ACCESS	HATCH	
BOLT COVER, GASKETED:	UNBOLTED COVER GASKETED:	,	UNBOLTED COVER, UNGASKETED:
	<u> </u>		
BOLTED COLUED	AUTOMATIC GAU		<u> </u>
BOLTED COVER, GASKETED:	UNBOLTED COVER, GASKETED:		UNBOLTED COVER, UNGASKETED:
	COLUMN	₩ELL	
BUILT-UP COLUMN-SLIDING COVER, GASKETED:	BUILT-UP COLIMN- COVER, UNGASKET		PIPE COLUMN-FLEXIBLE FABRIC SLEEVE SEAL:
PIPE COLUMN-SCIDING		PIPE COLUMN-	STIDIME
COVER, GASKETED:		COVER, UNGA	
	LADDER	WELL	
SLIDING COVER, GASKETED:		SLIDING COVE UNGASKETED:	R,
	SAMPLE PIPE	OR WELL	
SLOTTED PIPE-SLIDING COVER, GASKETED:	SLOTTED PIPE-SLID COVER, UNGASKETI	ING	SAMPLE WELL-SLIT FABRIC SEAL (10% OPEN AREA):
	55551 50 05 11		_
ADJUSTABLE:	ROOF LEG OR H.	FIXED:	
	VACUUM BI	REAKER	
WEIGHTED MECHANICAL ACTUATION, GASKETED:		WEIGHTED MEG ACTUATION, UN	
	STUB DI	RAIN	
I INCH DIAMETER:			
	OTHER (EX		
a)a	·		
<b>b</b> )	<del></del>	<del></del>	
;)	<del></del>		<del></del>
•			



<u>FOR AP</u>	PLIC	TMAC	'S USE
Revision #:			
Date:	_ /		_ /
Page		_ of .	
Source Desi	gnat	ion:	

	FOR AGENCY USE ONLY
PROCESS EMISSION UNIT	ID NUMBER:
DATA AND INFORMATION	EMISSION POINT #:
	DATE:
SOURCE	INFORMATION
1) SOURCE NAME: MAT Asphalt, LLC	
2) DATE FORM PREPARED: 5/18/2017	3) SOURCE ID NO. (IF KNOWN): N/A
GENERA	L INFORMATION
A) NAME OF EMISSION LINIT	

GENERAL II	NFORMATION
NAME OF EMISSION UNIT:     Crushing, Conveying, and Screening Operations	s (1 Crusher, 5 Conveyors, and 2 Screens)
5) NAME OF PROCESS:	
Crushing, Conveying, and Screening of Aggrega	ite and RAP
6) DESCRIPTION OF PROCESS:	
Crushing, Conveying, and Screening of Aggrega	te and RAP for Asphalt Production
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR A	CTIVITY ACCOMPLISHED:
Asphalt (Asphalt Cement with Aggregate Materia	al)
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:	
Crusher, Conveyors, and Screens (Figure 2)	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):	
TBD	
10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
TBD	TBD
12) DATES OF COMMENCING CONSTRUCTION,	a) CONSTRUCTION (MONTH/YEAR):
OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	Upon Issuance of Permit
,	b) OPERATION (MONTH/YEAR):
	Upon Completion of Construction
	c) LATEST MODIFICATION (MONTH/YEAR):
	N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):	·
N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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A BOCO TUE ELMONON LINUT LA								
14) DOES THE EMISSION UNIT HE IF YES, EXPLAIN AND IDENTIF A SEPARATE PROCESS EMIS FOR EACH MODE):	FY WH	ICH MODE IS	s cov	ÆRED B	Y THIS FOR	M (NOTE:	O Y	ES 🛛 NO
45 PROVIDE THE NAME AND DE	~ "~ <b>&amp;</b> I <b>A</b> -	TOU DE ALL	יים ר	~~~ · · · · · · · · · · · · · · · · · ·	- CONTO		~ ~ L 170pp	
15) PROVIDE THE NAME AND DES EMISSION UNIT, IF APPLICABL MUST BE COMPLETED FOR E	LË (FO	RM 260-CAA	PP AN	ND THE A	PPROPRIA	TE 260-CAAPP	CONTA ADDEN	ROLLING THIS IDUM FORM
N/A								
16) WILL EMISSIONS DURING STA RATE PURSUANT TO A SPECI ESTABLISHED BY AN EXISTIN	IFIC RU IG OR I	JLE, OR THE PROPOSED	ALLC PERM	OWABLE OWABLE	EMISSION L ITION?	IMIT AS	O YE	ES 🗵 NO
IF YES, COMPLETE AND ATTA EXCESS EMISSIONS DURING	START	TUP OF EQU	IPMEN	NT".				
17) PROVIDE ANY LIMITATIONS O STANDARDS (E.G., ONLY ONE	N SOL	RCE OPERA	TION D AT	AFFECT A TIME):	ING EMISS	ONS OR ANY	NORK P	PRACTICE
Throughput Limitations								
						* ·-		
		OPERAT	ring	INFOR	MATION			<del></del>
18) ATTACH THE CALCULATIONS, FOLLOWING OPERATING INFO	TO TH	E EXTENT	HEÝ /	ARE AIR	EMISSION	RELATED, FRO	M WHIC	H THE
BASED AND LABEL AS EXHIBI	T 220-1	I. REFER TO	SPE	CIAL NO	TES OF FOR	N AND FUEL US RM 202-CAAPP	SAGE D	ATA WERE
19a) MAXIMUM OPERATING HOUR 8760	RS	HOURS/D/	AY: 24		DAYSWE	EK:	WEEK	(S/YEAR: 52
b) TYPICAL OPERATING HOURS	<u>.</u>	HOURS/DA			DAYSME	<u> </u>	WEEK	S/YEAR:
1680			8	3	<b></b>	5	77	42
20) ANNUAL THROUGHPUT Limits: 890,000 Tons Produced,	,	DEC-FEB(	%):	MAR	-MAY(%):	JUN-AUG(9	6):	SEP-NOV(%):
425,000 Tons RAP Crushed		5			35	35		25
	M.	ATERIAL	USA	GE INF	ORMATIO	N		
<u>-</u> -		/ · · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>	Ø1 1	<u> </u>		<u> </u>
		MAXIM	UM RA	ATES		Т	YPICAL	RATES
21a) RAW MATERIALS	L	BS/HR		TONS/1	EAR	LBS/HR		TONS/YEAR
Aggregate		800,000		3,50	4,000	800,0	00	604,800
RAP		300,000		1,31	4,000	300,0	00	425,000
			l l		]			

	· · · · · · · · · · · · · · · · · · ·			
	MAXIMU	M RATES	TYPICAL	RATES
21b) PRODUCTS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Sized Aggregate	800,000	3,504,000	800,000	604,800
Sized RAP	300,000	1,314,000	300,000	425,000
			-	
	LANG GO			<u> </u>
O4-) EV DDODUOT MATGEMAN	MAXIMU		TYPICAL	RATES
21c) BY-PRODUCT MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A		<del>  </del>	<del></del>	<u> </u>
			<del> </del>	
	FIIEL	ISAGE DATA - N/	A	
22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIF (MILLION B'	RING RATE	c) DESIGN CAPACITY RATE (MILLION BT	FIRING TU/HR):
d) FUEL TYPE:	L OIL: GRADE NUMB	ER Oco	AL OOTHER	
IF MORE THAN ONE FUEL IS U	SED, ATTACH AN EX	PLANATION AND LABE	L AS EXHIBIT 220-2.	
e) TYPICAL HEAT CONTENT OF F BTU/GAL OR BTU/SCF):	UEL (BTU/LB,	f) TYPICAL SULFU GAS):	JR CONTENT (WT % N	A FOR NATURAL
g) TYPICAL ASH CONTENT (WT GAS):	%., NA FOR NATURA		USAGE (SPECIFY UNIT LLYEAR, TON/YEAR):	rs, e.G.,
23) ARE COMBUSTION EMISSIONS PROCESS UNIT EMISSIONS?	DUCTED TO THE SA	ME STACK OR CONTR	ROL AS Y	es O NO
IF NO, IDENTIFY THE EXHAUS	FOINT FOR COMBU	STION EMISSIONS:		
				1

See Section 1.1, Regulatory Applicability Analysis.

APPLICABLE RULES  TANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION I  EMISSION STANDARD(S)	25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S)  REGULATED AIR POLLUTANT(S)  RECORDKEEPING RULE(S)	26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:  REGULATED AIR POLLUTANT(S)  REGULATED AIR POLLUTANT(S)	REGULATED AIR POLLUTANT(S)  REGULATED AIR POLLUTANT(S)  REGULATED AIR POLLUTANT(S)	28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT:  REGULATED AIR POLLUTANT(S)  TESTING RULE(S)
24) PROVIDE ANY SPECIFIC EMISSION STA REGULATED AIR POLLUTANT(S)	25) PROVIDE ANY SPECIFIC RECORDKEEP REGULATED AIR POLLUTANT(S)	26) PROVIDE ANY SPECIFIC REPORTING RI REGULATED AIR POLLUTANT(S)	27) PROVIDE ANY SPECIFIC MONITORING F REGULATED AIR POLLUTANT(S)	28) PROVIDE ANY SPECIFIC TESTING RULE REGULATED AIR POLLUTANT(S)

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20) DODE THE EMISSION II	DUT OUR IEVEOU AN EVEN			<del>_</del>
OTHERWISE APPLICAB	INIT QUALIFY FOR AN EXEM LE RULE?	PTION FROM AN	YES	Ø NO
EXEMPTION. PROVIDE SUPPORTING DATA AN	A DETAILED EXPLANATION	T IS EXEMPT AND THE RULE JUSTIFYING THE EXEMPTIC AND LABEL AS EXHIBIT 220 HIS EXEMPTION.	ON INCLUDE DETA	MI ED
		CE INFORMATION		
30) IS THE EMISSION UNIT REQUIREMENTS?	IN COMPLIANCE WITH ALL A	(PPLICABLE		O NO
IF NO, THEN FORM 294- COMPLYING EMISSION	CAAPP "COMPLIANCE PLAN UNITS" MUST BE COMPLETE	/SCHEDULE OF COMPLIANC ED AND SUBMITTED WITH T	E ADDENDUM FOR THIS APPLICATION.	OR NON
31) EXPLANATION OF HOW	INITIAL COMPLIANCE IS TO	BE, OR WAS PREVIOUSLY,	DEMONSTRATED:	<del></del>
<b>!</b>		AP-42 Emission Factor		
32) EXDI ANATION OF HOW	ONGOING COMPLIANCE WIL	L DE BEHONOTRATED.	·	
		L BE DEMONSTRATED:		
Throughput & AP-42	Emission Factors			
TEST	ING, MONITORING, REC	CORDKEEPING AND RI	EPORTING	
33a) LIST THE PARAMETERS DETERMINE FEES, RUL	THAT RELATE TO AIR EMIS F APPLICABILITY OR COMPL	SSIONS FOR WHICH RECORI LIANCE. INCLUDE THE UNIT	DS ARE BEING MAI	NTAINED TO
METHOD OF MEASURE	MENT, AND THE FREQUENC	Y OF SUCH RECORDS (E.G.	., HOURLY, DAILY, \	II, IME WEEKLY):
				•
PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMEN	<u> freo</u>	UENCY
Throughput	Tons	Log	Monthly	+ 1
			$\dashv \vdash $	
		<del></del>		
<del> </del>		<del></del>		

33b) BRIEFLY DESCRIBE	THE METHOD BY WHICH RE	CORDS WILL BE CREATED AND M	IAINTAINED. FOR EACH
RECORDED PARAM RECORDKEEPING.	IETER INCLUDE THE METHOD AND TITLE OF PERSON TO CO	OF RECORDKEEPING, TITLE OF FORTACT FOR REVIEW OF RECORD	PERSON RESPONSIBLE FOR
PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Throughput	Log	VP of Production	VP of Production
	5	41 011 10dd0dd1	VI OITIOUGGIOII
]			1
	HE EMISSION UNIT READILY [	DEMONSTRATED BY REVIEW OF	X YES NO
THE RECORDS?			C YES UNU
IF NO, EXPLAIN:			
			<u>_</u>
d) ARE ALL RECORDS RI SUBMITTAL TO THE A	EADILY AVAILABLE FOR INSPE GENCY UPON REQUEST?	ECTION, COPYING AND	X YES NO
	<b></b>		
IF NO, EXPLAIN:			
34a) DESCRIBE ANY MON	ITORS OR MONITORING ACTIV	VITIES USED TO DETERMINE FEES	S. RULE APPLICABILITY OR
COMPLIANCE:			F; 110 mm ( M ) my ( m) m) ( 1 ) m / .
Throughput Recor	dkeeping		
b) WHAT PARAMETER(S)	IS(ARE) BEING MONITORED (	(E.G., VOM EMISSIONS TO ATMOSI	PHERE)?
Throughput			
c) DESCRIBE THE LOCAT	TION OF EACH MONITOR (E.G.	, IN STACK MONITOR 3 FEET FROM	VI EXIT):
N/A			

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	YES	O NO
IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:	O res	U NO
N/A		
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	O YES	O NO
		<b>–</b>
IF NO, EXPLAIN:		
N/A		
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS		
IN OPERATION?	U YES	U NO
IF NO, EXPLAIN:		
N/A		
35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESU	LTS ARE USED	OR
PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIAND DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING	DURING THE T	E TEST EST AND A
SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS	EXHIBIT 220-4:	
OPERATING TEST DATE TEST METHOD TESTING COMPANY CONDITIONS	SUMMARY OF F	RESULTS
N/A		1200210
	<u> </u>	
36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUEN SUBMITTALS TO THE AGENCY:	CY OF REPORT	
REPORTING REQUIREMENTS TITLE OF REPORT	FREQUENCY	
		<del>-</del>
Emissions Annual Emissions Report Annual	<u>y</u>	

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S)

					(37)E	MISSION	(37)EMISSION INFORMATION	TION				
			O 1 ACTUAL EMISSION RATE O 1 UNCONTROLLED EMISSIC	O 1 ACTUAL EMISSION RATE O 1 UNCONTROLLED EMISSION	N RATE		ALLO)	WABLE BY	ALLOWABLE BY RULE EMISSION RATE	ON RATE	PERMITTED EMISSION RATE	SSION RATE
REGULATED AIR POLLUTANT		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONSYR)	3OTHER TERMS	<sup>3</sup> OTHER TERMS	4DM	SRATE	(UNITS)	APPLICABLE	TONS PER YEAR	RATE (UNITS)	TONS PER YEAR
CARBON	MAXIMUM:								2770	(4)		(IONS/JR)
MONOXIDE (CO)	TYPICAL:											i
LEAD	MAXIMUM:							-				
	TYPICAL:											
NITROGEN	MAXIMUM:											
OXIDES (NOx)	TYPICAL:											
PARTICULATE	MAXIMUM:										5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
MATTER (PART)	TYPICAL:											
PARTICULATE MATTER <= 10	MAXIMUM:											
MICROMETERS (PM10)	TYPICAL:											
SULFUR	MAXIMUM:											
DIOXIDE (SO2)	TYPICAL:											
VOLATILE ORGANIC	MAXIMUM:											
MATERIAL (VOM)	TYPICAL:											i
OTHER, SPECIFY:	MAXIMUM:											
	TYPICAL:											
EXAMPLE				60								
PARTICULATE	MAXIMUM:	5.00	21.9	GRDSCF		1	6.0 (LE	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
72 ( LW)	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	5.5 (LB	5.5 (LBS/HR)	212.321	19.80		
MDODIANT. ATTACH CALCIN CALCIN	10100	4 614				]		1				

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

1CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
2PROVIDE THE EMISSION RATE THAT WALL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
3PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED. REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GRUBSC). ETC.)
4DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STAUDARD EMISSION FACTOR (AP 42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP 42 OR AIRS)
5RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

**APPLICATION PAGE** 

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APPLICATION PAGE 36

N/A - Not a Source of HAP

		HAZARDOUS	AIR FOLLOI AN	(38) HAZAKDOUS AIR POLLUTANT EMISSION INFORMATION	IFORMATI	ON	
		O 1 UNCO	<sup>1</sup> ACTUAL EMISSION RATE <sup>1</sup> UNCONTROLLED EMISSION RATE	TE SION RATE		ALLOWABLE BY RULE	: SULE
2cas NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	3OTHER TERMS	4DM	<sup>5</sup> RATE OR STANDARD	APPLICABLE
æ	MAXIMUM						
<u></u>	TYPICAL:						
ž	MAXIMUM						
<u></u>	TYPICAL:						
<u>}</u>	MAXIMUM						
<u> </u> }	TYPICAL:						
	MAXIMUM:						
≿	TYPICAL					·	
[≧	MAXIMUM:						
<u></u> ≿	TYPICAL:						
≩	MAXIMUM:						
≿	TYPICAL:						
ž	MAXIMUM:						
Ě	TYPICAL:						
<u></u>	MAXIMUM:						
E	TYPICAL:						
ן נר							
MA	MAXIMUM:	10.0	1.2		2	98% by wt control device	CFR 61
<u>₽</u>	TYPICAL:	8.0	8.0		2	leak-tight trucks	61.302(b) (d)

ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

<sup>1</sup>PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.

2CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

3PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GROSCF, ETC.).

4DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

5RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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EXHAUST POINT INFORMATION						
THIS SECTION SHOULD NOT BE COMPLETED	IF EMISSIONS ARE E	XHAUSTED THROUGH	AIR POLLUTION CONTROL EQUIPMENT.			
39) FLOW DIAGRAM DESIGNATION OF	EXHAUST POINT:	V: V:	·			
		Various - Fugit	ave			
40) DESCRIPTION OF EXHAUST POINT DISCHARGES INDOORS, DO NOT C			ORS, ETC.). IF THE EXHAUST POINT			
DISCHARGES INDUCAS, DO NOT C	OMPLETE THE KEN		gitive			
41) DICTANCE TO NEADECT DI ANT DO	INDARY FROM EVI					
41) DISTANCE TO NEAREST PLANT BOY 200	UNDART FROM EXP	HAUST POINT DISCH	IARGE (F1):			
42) DISCHARGE HEIGHT ABOVE GRADI	10-20					
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):						
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS  1.128 TIMES THE SQUARE ROOT OF THE AREA. ALVA						
IV/A						
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACF	M):	b) TYPICAL (ACFM):			
	^	<b>I</b> ∕A	N/A			
46) EXIT GAS TEMPERATURE	a) MAXIMUM (*F):		b) TYPICAL (*F):			
	Am	ibient	Ambient			
47) DIRECTION OF EXHAUST (VERTICA	L, LATERAL, DOWN	WARD):				
N/A						
48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:						
NAME	FLO	W DIAGRAM DESIGNATION				
a) Conveyors & Screens	į	See Figure :	2.			
b)	-					
c)		<del></del>				
d)						
e)						
THE FOLLOWING INFORMATION NEED ONLY	RE SUPPLIED IF READ	II Y AVAII ARI F				
49a) LATITUDE:	DE CONTENED IN REPORT	b) LONGITUDE:				
50) UTM ZONE:	b) UTM VERTICAL	(KM):	c) UTM HORIZONTAL (KM):			



FOR AP	PLIC	ANT'	S USE
Revision#:		.,	
Date:	_ / .		_ /
Page		_ of _	<u></u>
Source Design	gnati	on:	

# AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY			
ID NUMBER:			
CONTROL EQUIPMENT#:			
DATE:			

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOU	JRCE INFORMATION	
1) SOURCE NAME:		
MAT Asphalt, LLC		i
2) DATE FORM PREPARED: 05/18/17	3) SOURCE ID NO. (IF KNOWN): N/A	

GENERAL /	NFORMATION
4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND	OR CONTROL SYSTEM:
Baghouse with Knockout Box	
5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPME	NT AND/OR CONTROL SYSTEM:
See Figure 2.	
6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN	N):
Gencor	
7) MODEL NUMBER (IF KNOWN): ULTRAFLO Model 182	8) SERIAL NUMBER (IF KNOVVN): Unknown
9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION	a) CONSTRUCTION (MONTH/YEAR):
OF THIS EQUIPMENT (ACTUAL OR PLANNED)	Upon Issuance of Permit
	b) OPERATION (MONTH/YEAR):
	Upon Completion of Construction
	c) LATEST MODIFICATION (MONTH/YEAR):
	N/A
10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):	
N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQU	JIPMENT DUCTING EMISSIONS TO THIS CONTROL
EQUIPMENT:	DESIGNATION OR CODE NUMBER
Drum Mix Plant & Dryer	Mix Plant
[ ]	
] }	
12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN O	NE MODE OF OPERATION? YES NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVER A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FO COMPLETED FOR EACH MODE):	RED BY THIS FORM (NOTE:
13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED	TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G.,
TECHNICAL DRAWINGS):	
N/A	
OPERATING	
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN	
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E	IT WILL NOT BE OPERATING DUE TO SCHEDULED
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:	IT WILL NOT BE OPERATING DUE TO SCHEDULED
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:	IT WILL NOT BE OPERATING DUE TO SCHEDULED
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:	IT WILL NOT BE OPERATING DUE TO SCHEDULED
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:	IT WILL NOT BE OPERATING DUE TO SCHEDULED
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:	IT WILL NOT BE OPERATING DUE TO SCHEDULED EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION: N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE F	IT WILL NOT BE OPERATING DUE TO SCHEDULED EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION: N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE F EQUIPMENT IS/ARE NOT USED:	IT WILL NOT BE OPERATING DUE TO SCHEDULED EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION: N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE F EQUIPMENT IS/ARE NOT USED:	IT WILL NOT BE OPERATING DUE TO SCHEDULED EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION: N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE F EQUIPMENT IS/ARE NOT USED:	IT WILL NOT BE OPERATING DUE TO SCHEDULED EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:  N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE F EQUIPMENT IS/ARE NOT USED:  N/A	TEEDING EMISSION UNIT(S) WHEN THE CONTROL
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION: N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE F EQUIPMENT IS/ARE NOT USED:	TO WILL NOT BE OPERATING DUE TO SCHEDULED EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:  N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEQUIPMENT IS/ARE NOT USED:  N/A  b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OF THE PERIODS THE PERIODS DURING OPERATION AT ALL OF THE PERIODS THE PERIODS DURING OPERATION AT ALL OF THE PERIODS THE PERIODS DURING OPERATION AT ALL OF THE PERIODS THE PERIODS DURING OPERATION AT ALL OF THE PERIODS THE PERIODS DURING OPERATION AT ALL OF THE PERIODS THE PERIODS DURING OPERATION AT ALL OF THE PERIODS THE PERIODS DURING OPERATION AT ALL OF THE PERIODS DURING OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION AT ALL OPERATION	THER TIMES THAT THE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:  N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEQUIPMENT IS/ARE NOT USED:  N/A  b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OF FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION?  IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE O	THER TIMES THAT THE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:  N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEQUIPMENT IS/ARE NOT USED:  N/A  b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OF FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION?  IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE O	THER TIMES THAT THE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:  N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEQUIPMENT IS/ARE NOT USED:  N/A  b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OF FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION?  IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE O	THER TIMES THAT THE
14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMEN MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING E IN OPERATION:  N/A  15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEQUIPMENT IS/ARE NOT USED:  N/A  b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OF FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION?  IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE O	THER TIMES THAT THE

See Section 1.1, Regulatory Applicability Analysis

4PPLICABLE RULES  16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218,207(b)(1), 81%  OVERALL & 90% CONTROL DEVICE EFF.):	EMISSION STANDARD(S)  REQUIREMENT(S)	RE APPLICABLE TO THIS EMISSION UNIT:  RECORDICEPING RULE(S)  REQUIREMENT(S)	REQUIREMENT(S)  REQUIREMENT(S)	PPLICABLE TO THIS EMISSION UNIT:  MONITORING RULE(S)  REQUIREMENT(S)	TESTING RULE(S)  REQUIREMENT(S)
16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SI OVERALL & 90% CONTROL DEVICE EFF.):	REGULATED AIR POLLUTANT(S)  EMISSION	17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLIC REGULATED AIR POLLUTANT(S) RECORDKI	18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE REPORTING RULATED AIR POLLUTANT(S)	19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT.  REGULATED AIR POLLUTANT(S)  MONITORING RULE(S)	20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH REGULATED AIR POLLUTANT(S) TESTIN

COMPLIANCE INFORMATION								
21) IS THE CONTROL SYST REQUIREMENTS?	EM IN COMPLIANCE WITH AL							
COMPLYING EMISSION	UNITS" MUST BE COMPLETE	SCHEDULE OF COMPLIANCE OF AND SUBMITTED WITH TH	IS APPLICATION.					
22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:								
NSPS Emission Fac	ctors, AP-42 Particulate S	Size Distribution and Desig	gn Specifications.					
Required Testing wi	ill be Completed.							
: : 								
<u> </u>								
23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:								
Recordkeeping of Operation, Maintenance Checks, and Stack Test Results.								
		CORDKEEPING AND RE						
DETERMINE FEES, RUL	LE APPLICABILITY OR COMPL	SIONS FOR WHICH RECORD LIANCE. INCLUDE THE UNIT ( Y OF SUCH RECORDS (E.G.,	S ARE BEING MAINTAINED TO OF MEASUREMENT, THE HOURLY, DAILY, WEEKLY):					
PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY					
Operation	Hours	Log	Monthly					
			1					
<u></u>								

24b) BRIEFLY DESCRIBE	THE METHOD BY WHICH RE	CORDS WILL BE CREATED AND MA	AINTAINED. FOR EACH
RECORDKEEPING,	AND TITLE OF PERSON TO CO	OF RECORDKEEPING, TITLE OF PONTACT FOR REVIEW OF RECORD	PERSON RESPONSIBLE FOR SESSION OF THE PERSON RESPONSIBLE FOR THE PERSON RESPONSIBLE FOR THE PERSON RESPONSIBLE FOR THE PERSON RESPONSIBLE FOR THE PERSON RESPONSIBLE FOR THE PERSON RESPONSIBLE FOR THE PERSON RESPONSIBLE FOR THE PERSON RESPONSIBLE FOR THE PERSON
PARAMETER	METHOD OF RECORDING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Operation	Log	Environmental Manager	Environmental Mgr
	<u> </u>		
	<u>.</u>		
c) IS COMPLIANCE OF THE REVIEW OF THE RECO	HE CONTROL EQUIPMENT RE	ADILY DEMONSTRATED BY	⊠ yes □ No
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
IF NO, EXPLAIN:			
d) ARE ALL RECORDS RE	ADILY AVAII ABLE FOR INSPE	ECTION, COPYING AND/OR	X YES NO
	SENCY UPON REQUESTY		<b>9</b> 123 <b>9</b> 110
IF NO, EXPLAIN:			
25a) DESCRIBE ANY MONI	TORS OR MONITORING ACTIV	VITIES USED TO DETERMINE FEES	S, RULE APPLICABILITY OR
COMPLIANCE:			
N/A			
1977			
b) WHAT OPERATING PAI	RAMETER(S) IS(ARE) BEING N	MONITORED (E.G., COMBUSTION C	HAMBER TEMPERATURE)?
N/A			
c) DESCRIBE THE LOCAT	TION OF EACH MONITOR (5.0	, EXIT OF COMBUSTION CHAMBE	<u> </u>
N/A	TON OF EACH MONITOR (E.G	, EXIT OF COMBUSTION CHAMBE	K):
	-		

25d) IS EACH MONITOR EQUIPPED W	ITH A DECORDING DEVICES		
IF NO, LIST ALL MONITORS WITH		☐ YES {	) NO
N/A	DOT A RECORDING DEVICE.		
e) IS EACH MONITOR REVIEWED FO BASIS?	R ACCURACY ON AT LEAST A QUARTE	RLY YES	) NO
IF NO, EXPLAIN:			J NO
·			
N/A			
î) IS EACH MONITOR OPERATED AT	ALL TIMES THE CONTROL EQUIPMENT	TIS IN OVER	۲
OPERATION?		YES L	) NO
IF NO, EXPLAIN: N/A			
14// \			
26) PROVIDE INFORMATION ON THE N	MOST RECENT TESTS, IF ANY, IN WHIC	H THE RESULTS ARE USED FOR	
PURPOSES OF THE DETERMINAT DATE, TEST METHOD USED, TEST	ION OF FEES, RULE APPLICABILITY OR I'NG COMPANY, OPERATING CONDITIO	COMPLIANCE. INCLUDE THE TEST	ST
SUMMARY OF RESULTS. IF ADDIT	TIONAL SPACE IS NEEDED, ATTACH AN	ID LABEL AS EXHIBIT 260-1:	A UNA
TEST DATE TEST METHOD		RATING SUMMARY OF RESUL	TQ
N/A		Oddina at 1 of 14200	.13
27) DESCRIBE ALL REPORTING REQUI SUBMITTALS TO THE AGENCY:	IREMENTS AND PROVIDE THE TITLE AN	ND FREQUENCY OF REPORT	
REPORTING REQUIREMENTS	TITLE OF REPORT	FOCULTURA	
Emissions	Annual Emissions Report	FREQUENCY	7
Emissions	Aindai Eilissiotis Nepott	Annually	
		<u> </u>	$\dashv$
<del></del>	<u> </u>		
	CAPTURE AND CONTROL		
CONTROL EQUIPMENT. INCLUDE:	USED TO CONTAIN, COLLECT AND TR ALL HOODS, DUCTS, FANS, ETC. ALSO	INCLUDE THE METHOD OF CART	URE
Vents	(IF ADDITIONAL SPACE IS NEEDED, AT	TACH AND LABEL AS EXHIBIT 260-	-2):
Aciira			

-201							
29)	ARE FEATURES OF THE C DIAGRAM CONTAINED IN	APTURE SYSTEM THIS APPLICATIO	ACCURATELY N?	DEPICTED	IN THE FLOW	X YES	O NO
	IF NO, A SKETCH SHOWIN ATTACHED AND LABELED	IG THE FEATURES AS EXHIBIT 260-3	S OF THE CAPTI 3:	JRE SYST	EM SHOULD BE	Ē	
30)	PROVIDE THE ACTUAL (MI DESTRUCTION/REMOVAL COMBINATION OF THE CA TO BE CONTROLLED. ATT WHICH THESE EFFICIENC	EFFICIENCY, AND APTURE SYSTEM / FACH THE CALCU	O THE OVERALL AND CONTROL ( LATIONS TO TH	REDUCTION REQUIPMENTS OF FIXERS OF THE PROPERTY OF THE PROPERT	ON EFFICIENCY NT FOR EACH R TITHEY ARE AIR	Y PROVIDED BY TREES AIR I	THE POLLUTANT
a)	) CONTROL PERFORMANCI	<u>E:</u>					
	REGULATED AIR		E SYSTEM ENCY (%)		OL EQUIPMENT CIENCY (%)	OVERALL RE	
	POLLUTANT	(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i ii	PM/PM10	100	100	98+	98+	98+	98+
"   111		<b>│                                    </b>					
113							
iv.	EXPLAIN ANY OTHER REC COOLANT TEMPERATURE,	QUIRED LIMITS ON C	ONTROL EQUIPME	NT PERFOR	RMANCE SUCH AS	S OUTLET CONCEN	TRATION,
	Limits: 0.04 gr/dscf (		utlet 20% On:	acity = 40	CER 60 92(a	<b>5</b> 1	
	million and 1 G. 222. 1	(0.000 10/10/1/)	4110t, 2070 Opt	acity - 40	OI N 00.02(6	I)	
b)	METHOD USED TO DETER MANUFACTURER'S GUAF	MINE EACH OF TRANTEE, ETC.) AN	HE ABOVE EFFI ID THE DATE LA	CIENCIES ST TESTE	(E.G., STACK T	EST, MATERIAL	BALANCE,
		,		<b>--</b>			LAST
Г	CAPTURE:	EFFICIENCY DETERM		)			STED
L	Manufacturer's	s Specifications	<del></del>			N/A	
L	Manufacturer's	s Specifications				N/A	
	OVERALL: Manufacturer's	s Specifications				N/A	-
c)	REQUIRED PERFORMANC	E:					
	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (	Γ F	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE	RULE
i	PM/PM10	100	N	/A	N/A		<del></del>
ü					17/2		
iii			<del>                                     </del>	$\dashv \vdash$			
	L L		<u> </u>	_			
iv	EXPLAIN ANY OTHER REQU COOLANT TEMPERATURE, E	UIRED LIMITS ON CO	ONTROL EQUIPME	NT PERFOR	MANCE SUCH AS	OUTLET CONCENT	RATION,
	Limits: 0.04 gr/dscf (	0.033 lb/ton) ou	ıtlet, 20% Opa	city - 40	CFR 60.92(a)	}	
		•	•	•	<b>\</b>	,	

See Tables 3 & 4.

					(31)	MISSION	(31) EMISSION INFORMATION	ATION				
			<sup>1</sup> ACTUAI	1ACTUAL EMISSION	RATE		ALLC	WABLE BY	ALLOWABLE BY RULE EMISSION RATE	ON RATE	PERMITTED EMISSION RATE	SION RATE
REGULATED AIR POLLUTANT		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	3OTHER TERMS	3OTHER TERMS	A DIM	<sup>5</sup> RATE	(UNITS)	APPLICABLE	TONS PER YEAR	RATE (UNITS)	TONS PER YEAR
CARBON	MAXIMUM:						<u> </u>		YOUES	(ICNS/AR)		(TONS/YR)
MONOXIDE (CO)	TYPICAL:											
LEAD	MAXIMUM					i i		\ \				
	TYPICAL:							,				
NITROGEN	MAXIMUM:						<u> </u>					
OXIDES (NOx)	TYPICAL:							1				
PARTICULATE	MAXIMUM:		i					1				
MATTER (PART)	TYPICAL:											
PARTICULATE MATTER <= 10	MAXIMUM:							,				
MICROMETERS (PM10)	TYPICAL:							-				
SULFUR	MAXIMUM:							1				
DIOXIDE (SO2)	TYPICAL:							,				
VOLATILE ORGANIC	MAXIMUM							-				
MATERIAL (VOM)	TYPICAL:							† -		T		
OTHER, SPECIFY:	MAXIMUM:							-				
	TYPICAL:							<del>                                     </del>				
EXAMPLE		20.2	27.0									
PARTICULATE	MAXIMUM:	3	S	GROSCF		-	6.0 (4	6.0 (LBS/HR)	212.321	26.28	5.5 LBS/HR	22
WALLER	TYPICAL:	4.00	14.4	0.24 GR/DSCF		4	2.5 (1	5.5 (LBS/HR)	212.321	19.80		
MPOSTANT: ATTACH CALCIL ATIONS TO THE EXTERT THE	CALCIL ATIO	NO TO THE EX	TENT THEY A									

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

<sup>&</sup>lt;sup>1</sup>PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

<sup>2</sup>PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.

<sup>3</sup>PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONITY USED.

<sup>4</sup>DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP → 2 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP → 2 OR AIRS)

<sup>6</sup>RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

See Table 5.

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 250-6.

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<sup>1</sup> PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).

2CAS - CHEMICAL ABSTRACT SERVICE NUMBER.

3PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GRIDSCF, ETC.).

4DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (NOT AP 42 OR AIRS).

5RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION				
33) DESCRIPTION OF EXHAUST POINT DISCHARGES INDOORS, DO NOT C	(STACK VENT RO	OF MONITOR INDO	ORS, ETC.). IF THE EXHAUST POINT	
Stack				
34) DISTANCE TO NEAREST PLANT BO	UNDARY FROM EX	HAUST POINT DISC	HARGE (FT):	
	135			
35) DISCHARGE HEIGHT ABOVE GRAD	E (FT):			
	~40			
36) GOOD ENGINEERING PRACTICE (G	EP) HEIGHT, IF KN	OWN (FT):		
37) DIAMETER OF EXHAUST POINT (FT 1.128 TIMES THE SQUARE ROOT O	): NOTE: FOR A NO F THE AREA.	ON CIRCULAR EXHA	AUST POINT, THE DIAMETER IS	
38) EXIT GAS FLOW RATE	a) MAXIMUM (ACI	FM):	b) TYPICAL (ACFM):	
	1	,217	80,000	
39) EXIT GAS TEMPERATURE	a) MAXIMUM (*F):	<u>*</u>	b) TYPICAL (°F):	
	1	350	300	
40) DIRECTION OF EXHAUST (VERTICA	L. LATERAL, DOWN	WARD):		
		Vertica		
41) LIST ALL EMISSION UNITS AND CON	NTROL DEVICES SE	ERVED BY THIS EXH	IAUST POINT:	
NAME		FLO	OW DIAGRAM DESIGNATION	
<sup>a)</sup> Mix Plant & Dryer		Mix Plant		
b)				
с)				
d)				
e)				
Ŋ				
g)				
		<u> </u>		
			· · · · · · · · · · · · · · · · · · ·	
42) WHAT PERCENTAGE OF THE CONTI EXHAUST POINT (%)?			NG DUCTED TO THIS	
	1009			
43) IF THE PERCENTAGE OF THE CONT NOT 100%, THEN EXPLAIN WHERE T	ROL EQUIPMENT E	MISSIONS BEING D	UCTED TO THE EXHAUST POINT IS	
NOT 10070, THEN EXPENIE WHENE	THE KEMPINING EN	MOSIUNS ARE BEIN	G EXHAUSTED TO:	
<u> </u>		<del></del>		
THE FOLLOWING INFORMATION NEED ONLY	DE CLIDDI ICO IE DEAD	UNIAVANIADIE		
44a) LATITUDE:	3E SORKFIED IL MENDI	b) LONGITUDE:		
	!	'		
45) UTM ZONE:	b) UTM VERTICAL	(KM):	c) UTM HORIZONTAL (KM):	
	L			



FOR APPLICANT'S USE

Revision #:

ECTION Date: \_\_\_\_ / \_\_\_ /

Page \_\_\_\_ of \_\_\_

Source Designation:

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND	INFORMATION	
1) FLOW DIAGRAM DESIGNATION OF FILTER:		
Baghouse		
2) FILTER CONFIGURATION (CHECK ONE):  OPEN PRESSURE OTHER, SPECIFY:	CLOSED PRESSURE	CLOSED SUCTION
3) DESCRIBE FILTER MATERIAL:		
Polyester Bags		
4) FILTERING AREA (SQUARE FEET): 18,134	5) AIR TO CLOTH RATIO (FEET/MIN): Max: 4.5	92:1
6) CLEANING METHOD  SHAKER  OTHER, SPECIFY:	ERSE AIR O PULSE AIR	O PULSE JET
7) NORMAL RANGE OF PRESSURE DROP: 1 TO 4	(INCH H <sub>2</sub> 0)	
8a) INLET EMISSION STREAM PARAMETERS:		
	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	5	3.5
PARTICULATE INLET LOADING (GRAINS/SCF):	Unknown	Unknown
b) MEAN PARTICLE DIAMETER (MICRONS): >10		

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992. CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

**APPLICATION PAGE** 

9) FILTER OPERATING PARAMETERS	•		
	•	DURING MAXIMUM OPERATION OFFEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):		89,217	
INLET GAS TEMPERATURE (DEGR	REES	09,217	80,000
FAHRENHEIT):		350	300
EFFICIENCY (PM REDUCTION):		(%) 98+	(%) 98+
EFFICIENCY (PM10 REDUCTION):		(%) 98+	(%) 98+
		301	98+
10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E.G., BROKEN BAGS)?	CONTINUOUS OPACITY  VISUAL OPACITY RE	PRESSURE DROP	ALARMS-AUDIBLE TO PROCESS OPERATOR
(	OTHER, SPECIFY: [	Daily Visual Emission C	bservations
11) DESCRIBE ANY RECORDING DEVI	CE AND FREQUENCY OF	LOG ENTRIES:	
N/A			
12) DESCRIBE ANY FILTER SEEDING E	BEING PERFORMED:		
N/A			



FOR AP	PLIC	ANT	'S USE
Revision#:			
Date:	_ / _		_ /
Page		_ of .	
Source Desig	gnati	on:	

FUGITIVE EMISSIONS	
DATA AND INFORMATION	,

FOR AGENCY USE ONLY	
ID NUMBER:	
EMISSION POINT #:	<del></del>
DATE:	<del></del>

THIS FORM MAY BE COMPLETED FOR FUGITIVE EMISSION ACTIVITIES RATHER THAN COMPLETING AN EMISSION UNIT OR STAND ALONE FORM. FUGITIVE EMISSIONS ARE DEFINED AS THOSE EMISSIONS WHICH COULD NOT REASONABLY PASS THROUGH A STACK, CHIMNEY, VENT OR OTHER FUNCTIONALLY EQUIVALENT OPENING. NOTE THAT UNCAPTURED PROCESS EMISSION UNIT EMISSIONS ARE TYPICALLY NOT CONSIDERED FUGITIVE AND MUST BE ACCOUNTED FOR ON THE APPROPRIATE EMISSION UNIT OR STAND ALONE FORM. ANY EMISSIONS AT THE SOURCE NOT PREVIOUSLY ACCOUNTED FOR ON AN EMISSION UNIT OR STAND ALONE FORM MUST BE ACCOUNTED FOR ON THIS FORM.

### SOME EXAMPLES OF EMISSIONS WHICH ARE TYPICALLY CONSIDERED FUGITIVE ARE:

- ROAD DUST EMISSIONS (PAVED ROADS, UNPAVED ROADS, AND LOTS)
- STORAGE PILE EMISSIONS (WIND EROSION, VEHICLE DUMP AND LOAD)
- LOADING/UNLOADING OPERATION EMISSION
- EMISSIONS FROM MATERIAL BEING TRANSPORTED IN A VEHICLE
- EMISSIONS OCCURRING FROM THE UNLOADING AND TRANSPORTING OF MATERIALS COLLECTED BY POLLUTION CONTROL EQUIPMENT
- EQUIPMENT LEAKS (E.G., LEAKS FROM PUMPS, COMPRESSORS, IN-LINE PROCESS VALVES, PRESSURE RELIEF DEVICES, OPEN-ENDED VALVES, SAMPLING CONNECTIONS, FLANGES, AGITATORS, COOLING TOWERS, ETC.)
- GENERAL CLEAN-UP VOM EMISSIONS

NOTE THAT TOTAL EMISSIONS FROM THE SOURCE (TS) ARE EQUAL TO SOURCE-WIDE TOTAL EMISSION UNIT EMISSIONS (PT) PLUS TOTAL FUGITIVE EMISSIONS (FT), E.G., TS = PT + FT.

	FORMATION
1) SOURCE NAME: MAT Asphalt, LLC	
2) DATE FORM PREPARED: 5/18/2017	3) SOURCE ID NO. (IF KNOWN): N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

#### GENERAL INFORMATION

4) PROVIDE THE FOLLOWING INFORMATION FOR THE FUGITIVE EMISSION POINTS AT THE SOURCE INCLUDED IN THIS APPLICATION. SIMILAR POINTS MAY BE GROUPED TOGETHER.

NOTE: ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, FROM WHICH THE ABOVE EMISSIONS, WE'RE BASED AND LABEL AS EXHIBIT 391-1. IF THE ABOVE SPACE WAS NOT ADEQUATE, LIST ALL OTHER FUGITIVE POINTS AND INCLUDE THE REQUIRED INFORMATION ON THIS ATTACHMENT.

FOR PAVED AND UNPAVED ROADS, INCLUDE ROAD MILES (E.G., 6 MILES OF UNPAVED ROADS); FOR STORAGE PILES, INDICATE THE MATERIAL BEING STORED (E.G., 20 LIMESTONE STORAGE PILES); FOR EQUIPMENT LEAK POINTS, GROUP SIMILAR POINTS TOGETHER (E.G., 15 ORGANIC LIQUID PUMPS); FOR TRANSFER POINTS, IDENTIFY THE ORIGIN AND DESTINATION OF TRANSFER AND THE MATERIAL BEING TRANSFERRED (E.G., 5 BELT TO BIN TRANSFERS OF CORN).

UNCONTROLLED ANNUAL EMISSIONS (TONS/YR)

		(TONS/YR)	
FUGITIVE POINT(S)	REGULATED AIR POLLUTANT(S)	MAXIMUM	TYPICAL
Paved Plant Roads	РМ	4.44	3.02
Paved Plant Roads	PM10	0.89	0.60
Unpaved Plant Roads	РМ	90.11	45.14
Unpaved Plant Roads	PM10	22.97	11.50
Storage Pile Loading	РМ	0.72	0.49
Storage Pile Loading	PM10	0.34	0.23
See Tables 9-11.			
<u></u>			

<sup>5)</sup> ATTACH A DIAGRAM OF THE SOURCE THAT INDICATES THE LOCATION OF ALL FUGITIVE EMISSION POINTS. A SKETCH DRAWING WITH THE PROPER NOTATIONS IS SUFFICIENT. ALTERNATIVELY, THE REQUIRED INFORMATION MAY BE PLACED ON A COPY OF AN EXISTING PLAN OR MAP SUBMITTED WITH THIS APPLICATION (E.G., PLOT PLAN/MAP). ALSO INDICATE ON THIS DIAGRAM THE LOCATION OF ANY AMBIENT AIR MONITORING STATIONS. LABEL THIS DIAGRAM 391-2. NOTE: EQUIPMENT LEAK FUGITIVE EMISSION POINTS NEED NOT BE SHOWN ON THIS DIAGRAM. \*See Attachment 1 to Fugitive Particulate Operating Program

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See Section 1.1, Regulatory Applicability Analysis

TTHE SOURCE ACC. BOAD SECMENT F BM 40 100	212.316(d), OPACITY < OR = 10% AT 4 FT):	REQUIREMENT(S)	REQUIREMENT(S)
APPLICABLE RULES		EMISSION STANDARD(S)	EMISSION STANDARD(S)
APP DARDISI AND LIMITATIONS(S) WHICH AR		REGULATED AIR POLLUTANT(S)	G RULE(S) WHICH ARE APPLICABLE: REGULATED AIR POLLUTANT(S)
6) PROVIDE ANY SPECIFIC EMISSION STAN	212.316(d), OPACITY < OR = 10% AT 4 FT)	FUGITIVE POINTS(S)	7) PROVIDE ANY SPECIFIC RECORDIXEEPING RULE(S) WHICH ARE APPLICABLE: FLIGHTIVE POINTS(S)  REGULATED AIR POLLUTANT(S)

IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-3.

See Section 1.1, Regulatory Applicability Analysis

	REQUIREMENT(S)	REQUIREMENT(S)	REQUIREMENT(S)	
APPLICABLE RULES (CON'T)	EMISSION STANDARD(S)	EMISSION STANDARD(S)	'LICABLE: EMISSION STANDARD(S)	
	LE(S) WHICH ARE APPLICABLE: REGULATED AIR POLLUTANT(S)	ILE(S) WHICH ARE APPLICABLE: REGULATED AIR POLLUTANT(S)	S AND/OR PROCEDURES WHICH ARE APP REGULATED AIR POLLUTANT(S)	
occurrent 1.1; regulatory applicability miarysis	8) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLI FUGITIVE POINTS(S)  REGULATED AIR PA	9) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE: FUGITIVE POINTS(S) REGULATED AIR POLLUTANT AMBRET AND AND AND AND AND AND AND AND AND AND	10) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE: FUGITIVE POINTS(S) REGULATED AIR POLLUTANT(S)	

IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-3.

		CE INFORMATION						
11) IS EACH FUGITIVE PO	INT IN COMPLIANCE WITH AL	LL APPLICABLE REQUIREMENTS?	X YES NO					
IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.								
12) EXPLANATION OF HOW	INITIAL COMPLIANCE IS TO	BE, OR WAS PREVIOUSLY, DEMO	NOTE ATED					
AP-42 emission cal	AP-42 emission calculations with the permitted maximum facility throughput.							
13) EXPLANATION OF HOW	ONGOING COMPLIANCE WIL	L BE DEMONSTRATED:						
13) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:  AP-42 emission calculations with the actual facility throughput and operation under the sources fugitive dust plan.								
TERT	INC HONITORING DEC	000000000000000000000000000000000000000						
14a) LIST THE PARAMETERS DETERMINE FEES, RUL	S THAT RELATE TO AIR EMIS: LE APPLICABILITY OR COMPL	CORDKEEPING AND REPOR SIONS FOR WHICH RECORDS ARI JANCE. INCLUDE THE UNIT OF MI Y OF SUCH RECORDS (E.G., HOUR	E BEING MAINTAINED TO					
PARAMETER	FUGITIVE POINT	METHOD OF MEASUREMENT	FREQUENCY					
Throughput	All	Log	Monthly					
Dust Control	All	Log	Weekly					

b) BRIEFLY DESCRIBE TH	ER INCLUDE THE METHOD	ORDS WILL BE CREATED AND MAII	NTAINED. FOR	EACH
RECORDKEEPING, ANI	D TITLE OF PERSON TO COI	OF RECORDKEEPING, TITLE OF PENTACT FOR REVIEW OF RECORDS	RSON RESPON :	ISIBLE FOR
PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLI CONTACT	E OF PERSON
Throughput	Log	Environmental Manager	Environme	1
Dust Control	Log	Plant Manager	Environme	ental Mgr
c) IS COMPLIANCE OF TH	F EMISSION LINIT READILY	DEMONSTRATED BY REVIEW OF		
THE RECORDS?		DEMONSTRATED BY REVIEW OF	X YES	U NO
IF NO, EXPLAIN;				
d) ARE ALL RECORDS REA	ADILY AVAILABLE FOR INSP	ECTION CORYING AND/OR	_	
SUBMITTAL TO THE AG	ENCY UPON REQUEST?	LC HON, COPTING AND/OR	X YES	U NO
IF NO, EXPLAIN:				
15a) DESCRIBE ANY MONIT	ORS OR MONITORING ACTI	VITIES USED TO DETERMINE FEES	DIUE ADDITE	
COMPLIANCE:		ALLES OSED TO DETERMINE PEES	6, RULE APPLIC	ABILITY OR
Throughput Record	lkeeping			
b) WHAT PARAMETER(S) IS	S(ARE) BEING MONITORED?		<del></del>	
Throughput	SAME DEING MONITORED?	,		
	ON OF EACH MONITOR AND	OR MONITORING PROCEDURES:		
Monthly Log				
A IC EAGU MONITOR FOR	DOCTO WATER AND THE STREET		. <u>.                                   </u>	
	PPED WITH A RECORDING (		YES	O NO
IF NO, LIST ALL MONITO	RS WITHOUT A RECORDING	S DEVICE:		
1 7/7 4				
				ļ
<del></del>	<del></del>			

e) IS EACH MONITO BASIS?	** * * * * - * * *	IT NO COLUMN TO LOTTE				
I DAGIG:			=== , , , , , , , , , , , , , ,		U YES	U NO
IF NO, EXPLAIN:						
N/A						
IVA						
f) IS EACH MONITO	R OPERATED AT	ALL TIMES THAT	FUGITIVE EMISSIO	NS MAY	$\overline{\Box}$	
OCCUR?				114 112 11	U YES	∪ №
IT NO EVOLATE						
IF NO, EXPLAIN:						
N/A						
16) PROVIDE INFORM	MATION ON THE M	MOST RECENT TE	STS, IF ANY, IN WE	IICH THE RESULT	S ARE USED	FOR
PURPUSES OF I	HE DETERMINATION	ION OF FEES RUL	E APPLICABILITY (		INCLUDE TO	JE TECT
DATE, LEST MET	HOD USED, TESTI	ING COMPANY, O	PERATING CONDIT	FIONS EXISTING P	NIDING THE T	TEST AND A
SUMINAK I OF NE	SUL 15. IF ADDITI	IONAL SPACE IS I	NEEDED, ATTACH	AND LABEL AS EX	(HIBIT 391-4:	
		TEST		OPERATING		
FUGITIVE POINT(S)	TEST DATE	METHOD	TESTING FIRM	CONDITIONS	SUMMA	IRV OF
		<del></del>			RESU	
N/A	[ [	1 1	Ī 1			
<del></del>	<del> </del>	<u> </u>		<u> </u>	<u> </u>	
. 1	1	1 1	i	1 1	I	
·	<del></del>	<del>                                     </del>	<del></del>	<u> </u>		
1		11	]	1		1
-		<del> </del>		<del>                                     </del>	<del> </del>	<del></del> -
·		1   1	1	1	I	
	<u> </u>	<u> </u>			L	
17) DESCRIBE ALL RE	EDORTING REQUI	PENENTS AND PE	OVER THE TITLE	THE EDUCATION		
17) DESCRIBE ALL RI SUBMITTALS TO	EPORTING REQUII	REMENTS AND PI	ROVIDE THE TITLE	AND FREQUENCY	Y OF REPORT	r ====
17) DESCRIBE ALL RI SUBMITTALS TO	EPORTING REQUI THE AGENCY:	REMENTS AND PI	ROVIDE THE TITLE	AND FREQUENCY	Y OF REPORT	Ī
SUBMITTALS TO	THE AGENCY:		ROVIDE THE TITLE	AND FREQUENCY	Y OF REPORT	Ť
SUBMITTALS TO	THE AGENCY:	REMENTS AND PR		AND FREQUENCY		QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	
SUBMITTALS TO	THE AGENCY:		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ		FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING		Ŧťſſ	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING Emissions	3 REQUIREMENTS	Annual E	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)  All	REPORTING Emissions	GITIVE DUST (c	Annual E	LE OF REPORT	FREC	QUENCY
FUGITIVE POINT(S)	REPORTING Emissions	GITIVE DUST (c	Annual E	LE OF REPORT	rt Annu	QUENCY
FUCITIVE POINT(S)  All  18a) ARE OPACITY RE	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	FREC	QUENCY
FUCITIVE POINT(S)  All  18a) ARE OPACITY RE	REPORTING Emissions	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUCITIVE POINT(S)  All  18a) ARE OPACITY RE	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE IF YES, SPECIFY	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUCITIVE POINT(S)  All  18a) ARE OPACITY RE	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE IF YES, SPECIFY	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE  IF YES, SPECIFY  i)  ii)	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE IF YES, SPECIFY  i)	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE  IF YES, SPECIFY  i)  ii)	REPORTING Emissions  FUG EADINGS REQUIRE	GITIVE DUST (C	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE  IF YES, SPECIFY  i)  ii)	FUCE ADINGS REQUIRE	GITIVE DUST (CED TO BE TAKEN?	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE  IF YES, SPECIFY  i)  ii)	FUCE ADINGS REQUIRE	GITIVE DUST (CED TO BE TAKEN?	Annual E	LE OF REPORT	rt Annu	QUENCY
FUGITIVE POINT(S)  All  18a) ARE OPACITY RE  IF YES, SPECIFY  i)  ii)	FUCE ADINGS REQUIRE	GITIVE DUST (CED TO BE TAKEN?	Annual E	LE OF REPORT	rt Annu	QUENCY

c) IS USEPA METHOD 9 USED TO READ ALL VISIBLE EMISSIONS?	YES	
IF NO, EXPLAIN AND SPECIFY THE METHOD USED:	U YES	∪ №
N/A - No fugitive emission opacity readings required.		
19) IS AN OPERATING PROGRAM FOR FUGITIVE PARTICULATE MATTER AND/OR PM10		· <u> </u>
CONTROL REQUIRED PURSUANT TO 35 ILL. ADM. CODE 212.309?	X YES	O NO
IF YES, HAS SUCH A PROGRAM PREVIOUSLY BEEN SUBMITTED TO THE AGENCY?	YES	× NO
IF SUCH A PROGRAM HAS NOT BEEN SUBMITTED, IT SHOULD BE ATTACHED TO THIS		<b>—</b> 110
AND LABELED AS 391-5.	FURM UPON S	ORMILIAL
20) IS THE SOURCE IN COMPLIANCE WITH 35 ILL. ADM. CODE 212.301 WHICH STATES THAT NO EMISSIONS SHALL BE VISIBLE BEYOND THE PROPERTY LINE OF THE		
SOURCE?	X YES	O NO
IF NO, EXPLAIN: .		
	<u> </u>	
FUGITIVE VOM FROM EQUIPMENT LEAKS (complete if app	olicable) - N/	'A
FUGITIVE VOM FROM EQUIPMENT LEAKS (complete if app 21) INDICATE WHICH OF THE FOLLOWING METHODS WAS USED TO ESTIMATE FUGITIVE EQUIPMENT LEAKS:	Dicable) - N/	A VOM FROM
EQUIPMENT LEAKS:	EMISSIONS OF	VOM FROM
AVERAGE EMISSION EMIS	Ilicable) - N/EMISSIONS OF  ATE/SCREENING  PRRELATION	VOM FROM
EQUIPMENT LEAKS:  AVERAGE  FMISSION  LEAKNO LEAK  STRATIFIED  LEAK ROSEAK  EMISSIONS OF	VOM FROM	
AVERAGE EMISSION EMIS	EMISSIONS OF	VOM FROM
AVERAGE EMISSION FACTOR  LEAK/NO LEAK STRATIFIED EMISSION FACTOR  LEAK/NO LEAK EMISSION FACTOR  LEAK/NO LEAK EMISSION FACTOR  LEAK/NO LEAK EMISSION FACTOR  LEAK/NO LEAK EMISSION FACTOR  LEAK/NO LEAK EMISSION FACTOR	EMISSIONS OF	VOM FROM
AVERAGE EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE	EMISSIONS OF  ATE/SCREENING  PRRELATION	VOM FROM
AVERAGE EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391	EMISSIONS OF  ATE/SCREENING  PRRELATION	VOM FROM
AVERAGE EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE	ATE/SCREENING PRELATION  BEEN PERFORM -6.	OVALUE
AVERAGE EMISSION EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391  22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF EQUIPMENT LEAKS?	ATE/SCREENING PRRELATION  BEEN PERFORM -6.  YES	G VALUE  MED. THIS
AVERAGE EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE I REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391  22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF FOLLIPMENT	ATE/SCREENING PRRELATION  BEEN PERFORM -6.  YES	G VALUE  MED. THIS
AVERAGE EMISSION EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE I REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391  22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF EQUIPMENT  LEAKS?	ATE/SCREENING PRRELATION  BEEN PERFORM -6.  YES	G VALUE  MED. THIS
AVERAGE EMISSION EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE I REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391  22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF EQUIPMENT  LEAKS?	ATE/SCREENING PRRELATION  BEEN PERFORM -6.  YES	G VALUE  MED. THIS
AVERAGE EMISSION EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE I REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391  22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF EQUIPMENT  LEAKS?	ATE/SCREENING PRRELATION  BEEN PERFORM -6.  YES	G VALUE  MED. THIS
AVERAGE EMISSION EMISSION EMISSION FACTOR  OTHER; (SPECIFY):  ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE I REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391  22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF EQUIPMENT  LEAKS?	ATE/SCREENING PRRELATION  BEEN PERFORM -6.  YES	G VALUE  MED. THIS

# N/A - No fugitive VOM.

	FUGITIVE VOM F	ROM CLEANUP	OPERATIONS (coi	mplete if applica	thle)			
23) COMPLET	E THE FOLLOWING FOR	R FACH VOM CONTA	INING MATERIAL LICE	D EOD OLEANIUD E	OD MULICULTUR			
EMISSION	S ARE FUGITIVE AND I	IAVE NOT BEEN AC	COUNTED FOR ELSEV	WHERE IN THIS APP	PLICATION:			
ANNUAL USAGE (GALYEAR)								
GENERIO	NAME OF CLEANUP	DENSITY	VOM CONTENT	10.10				
	MATERIAL	(LB/GAL)	(WEIGHT %)	MAX	TYPICAL			
a)								
]					1			
( ь)								
] -,			1.					
c)	Ì				<del></del>			
					1 1			
			·					
24) EXPLAIN T	HE MEANS BY WHICH 1	THESE MATERIALS A	ARE USED AND WHAT	<b>EQUIPMENT OR IT</b>	EMS ARE BEING			
CLEANED:					-			
!								
25a) ARE ALL \	OM USED IN CLEANUP	OPERATIONS CON	SIDERED TO BE EMIT	TED?	res D NO			
IF NO, EX	PI AIN'			<u> </u>	res U NO			
,	<b>—</b> ,.							
b) IF APPLICA	BLE, COMPLETE ITEM	S I, II, AND III BELOW	•		<u> </u>			
i) PROVID	E THE MAXIMUM AND 1	TYPICAL AMOUNT O	E VIONA DECLARACIDAN	ID/OD CUIDDED OF	E OFFE AND			
HENCE,	NOT EMITTED:	11 10/12/11/10/01/1	AOM LECTAINED VI	ND/OK SHIPPED OF	F-SITE AND			
	(0.41.0VD)							
MAY F	(GALSYR)		···	(TONS/YR)				
MAX				· · · · · · · · · · · · · · · · · · ·				
TYP								
ii) EXPLAIN	THE MEANS BY WHICH	VOM IS COLLECTED	FOR RECLAMATION	AND/OR DISPOSAL	<del>-</del>			
					•			
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	iii) EXPLAIN THE MEANS B	Y WHICH THE AMOUNT	OF VOM COLLECTED	IS MEASURED OF DE	TERMINED.
	N/A		or voll ooties (E	TO MEASONED ON DE	I ENMINED:
l					
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l					
l					
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26)	COMPLETE THE FOLLOWIN	FUGIT	TIVE CONTROL		
20)	COMPLETE THE FOLLOWIN CONTROL MEASURE UTILIZED	IG, INCLUDING THE MIT ZED:	NIMUM AND TYPICAL F	REDUCTION EFFICIENC	Y FOR EACH
		DECILI ATED AID	FUGITIVE	REDUCTION	FREQUENCY OF
	CONTROL MEASURES	REGULATED AIR POLLUTANT	POINT(S) CONTROLLED	EFF.(%) MIN TYP	CONTROL APPLICATION
a)	Motting	DIAMBALLO			
b)	Wetting	PM/PM10	All	80 80	Weekly*
,					*minimum
C)					
d)			<del></del>		
e)					
,					
	E: IF ADDITIONAL SPACE IS				
27) F	PROVIDE A DESCRIPTION O S NEEDED, ATTACH AND LA	F EACH OF THE CONTI	ROL MEASURES INDIC	ATED IN ITEM 32. IF A	DDITIONAL SPACE
	CONTROL MEASI			RESCOURTION	
a)	Wetting			DESCRIPTION	
ŀ			Water Truck	<u> </u>	
			<u>,</u>	<del></del>	
Į				<del></del>	
b) [					
	· · · · · · · · · · · · · · · · · · ·			<del></del>	
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CONTROL MEASURE(S)	THE CONTROL MEASURES INDICATED IN ITEM 26. IF AS 391-9.  DESCRIPTION
N/A	
N/A	
	· · · · · · · · · · · · · · · · · · ·
	<u> </u>
· ·	

# **EXHIBIT 391-5**



STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF AIR POLLUTION CONTROL 1021 NORTH GRAND AVENUE, EAST SPRINGFIELD, ILLINOIS 62702

Page	of _	
	-	<del></del> -

OPERATING PROGRAM FOR FUGITIVE PARTICULATE CONTROL						
THE PORT OF LIGHT TO A PRINT FOR A SUGIENCE						
I. THIS FORM IS USED TO APPLY FOR A FUGITIV KEEP ONE COPY FOR YOUR RECORDS, AND RETUR ADDRESS LISTED ABOVE.	E DUST OPERATING PR RN TWO COPIES TO THE	OGRAM AS REC	QUIRED BY 35 IAC 212,309. F BUREAU OF AIR PERMIT	COMPLETE THE FORM, SECTION MANAGER AT THE		
2a. NAME OF OWNER: MAT Asphalt, LLC		3a. NAME OF O	PERATOR: Same as Ov			
2b. STREET ADDRESS OF OWNER:	1 7		DRESS OF OPERATOR:	vner		
4450 South	Morgan	DU. STREET AD	DRESS OF OPERATOR:			
2c. CITY OF OWNER: Chicago		3c. CITY OF OP	ERATOR:			
2d. STATE OF OWNER:   2e. ZIP (	CODE: 60609	3d. STATE OF C	PERATOR:	3c. ZIP CODE:		
4a. NAME OF CORPORATE DIVISION OR PLANT:	Ι.	IL STREET AD	DRESS OF EMISSION SOUR			
MAT Asphalt, LLC		2055 West		RCE;		
	ATED WITHIN CITY 4	te. TOWNSHIP: Chicago	4f. COUNTY: Cook	4g. ZIP CODE: 60609		
		<u> </u>	COOK	00003		
5. SUBMIT A SCALE MAP SHOWING ALL STORAGE PILES, CONVEYOR LOADING OPERATIONS, STORAGE PILE ACCESS ROADS, NORMAL TRAFFIC ROADS, PARKING FACILITIES, LOCATION OF UNLOADING AND TRANSPORTING OPERATIONS WITH POLLUTION CONTROL EQUIPMENT.						
TRAFFIC RUADS, PARKING FACILITIES, LUCATION	PILES, CONVEYOR LOA OF UNLOADING AND T	ADING OPERATI TRANSPORTING	IONS, STORAGE PILE ACC OPERATIONS WITH POLLI	JTION CONTROL		
TRAFFIC RUADS, PARKING FACILITIES, LUCATION	PILES, CONVEYOR LOA OF UNLOADING AND T	ADING OPERATI RANSPORTING	IONS, STORAGE PILE ACC OPERATIONS WITH POLLU	ESS KOADS, NORMAE JTION CONTROL		
TRAFFIC RUADS, PARKING FACILITIES, LUCATION	OF UNLOADING AND T	RANSPORTING	OPERATIONS WITH POLLU	JTION CONTROL		
EQUIPMENT.	E THAN 260,000 TONS O	RANSPORTING  PF MATERIAL IN	OPERATIONS WITH POLLU	JTION CONTROL		
EQUIPMENT.  6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR	E THAN 260,000 TONS O	RANSPORTING  PF MATERIAL IN	OPERATIONS WITH POLLU	JTION CONTROL		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM	E THAN 260,000 TONS OUT THE FOLLOWING INF	RANSPORTING  OF MATERIAL IN  FORMATION.	OPERATIONS WITH POLLU	JTION CONTROL		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM  TOTAL AMOUNT OF MATERIAL IN THE STORAGE	E THAN 260,000 TONS O  IT THE FOLLOWING INF  GE PILES:  NG:  ND CONTROL METHODS  I UNLOADING, PILE MA	PRANSPORTING  OF MATERIAL IN  FORMATION.  TONS/YEAR  S BY WHICH FUNITENANCE AND	GITIVE PARTICULATES FE	YES NO  ROM THESE STORAGE PILES		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM  TOTAL AMOUNT OF MATERIAL IN THE STORAG  AND SUBMIT AN ATTACHED SHEET DESCRIBIT  I) DETAILED OPERATING PROCEDURES AT WILL BE MINIMIZED DURING LOADING	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS I, UNLOADING, PILE MA T? NAME THE TYPE AN  OR FUGITIVE PARTICULA RVING THESE STORAGE	PERMATERIAL IN FORMATION. TONS/YEAR S BY WHICH FUNITENANCE, AND CONCENTRA ATE EMISSIONS E PILES. IF SUR	GITIVE PARTICULATES FEND WIND EROSION. HOW TION OF SURFACTANT THE	YES NO  ROM THESE STORAGE PILES OFTEN WILL THESE PILES LAT WILL BE USED.		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM  TOTAL AMOUNT OF MATERIAL IN THE STORAG  AND SUBMIT AN ATTACHED SHEET DESCRIBIN  I) DETAILED OPERATING PROCEDURES AN WILL BE MINIMIZED DURING LOADING BE TREATED WITH SURFACTING AGENT  II) TYPE OF CONTROL METHODS USED FO NORMAL TRAFFIC PATTERN ROADS SE	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS G, UNLOADING, PILE MA T? NAME THE TYPE AN  OR FUGITIVE PARTICULA RVING THESE STORAGE ENT AND FREQUENCY OF OR FUGITIVE PARTICUL DS AT THIS FACILITY. II	FANSPORTING  FORMATION.  FORMATION.  TONS/YEAR  S BY WHICH FULLINTENANCE, AID CONCENTRA  ATE EMISSIONS  E PILES. IF SURI  OF ITS USE.  ATE EMISSIONS  F ROADS ARE P.	GITIVE PARTICULATES FEND WIND EROSION. HOW TION OF SURFACTANT THE FROM CONVEYOR LOADIFACTING AGENT IS USED	YES NO  ROM THESE STORAGE PILES OFTEN WILL THESE PILES LAT WILL BE USED.  NG OPERATIONS AND STATE TYPE AND		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR.  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM  TOTAL AMOUNT OF MATERIAL IN THE STORAGE AND SUBMIT AN ATTACHED SHEET DESCRIBING  I) DETAILED OPERATING PROCEDURES AN WILL BE MINIMIZED DURING LOADING BE TREATED WITH SURFACTING AGENTAL TYPE OF CONTROL METHODS USED FOR NORMAL TRAFFIC PATTERN ROADS SEING CONCENTRATION OF SURFACTING AGENTAL TO THE PAVED AND HOW FREQUENTLY THESE	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS G, UNLOADING, PILE MA T? NAME THE TYPE AN  PR FUGITIVE PARTICULA RVING THESE STORAGE ENT AND FREQUENCY OF  OR FUGITIVE PARTICUL DS AT THIS FACILITY. II ROADS WILL BE CLEAN	FANSPORTING  FORMATION.  FORMATION.  TONS/YEAR  S BY WHICH FULLINTENANCE, AID CONCENTRA  ATE EMISSIONS  E PILES. IF SURI  OF ITS USE.  ATE EMISSIONS  F ROADS ARE P.	GITIVE PARTICULATES FE ND WIND EROSION. HOW TION OF SURFACTANT THE FROM CONVEYOR LOADIFACTING AGENT IS USED	YES NO  ROM THESE STORAGE PILES OFTEN WILL THESE PILES LAT WILL BE USED.  NG OPERATIONS AND STATE TYPE AND		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR.  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM  TOTAL AMOUNT OF MATERIAL IN THE STORAGE AND SUBMIT AN ATTACHED SHEET DESCRIBIN  i) DETAILED OPERATING PROCEDURES AN WILL BE MINIMIZED DURING LOADING BE TREATED WITH SURFACTING AGEN.  II) TYPE OF CONTROL METHODS USED FO NORMAL TRAFFIC PATTERN ROADS SEL CONCENTRATION OF SURFACTING AGE.  III) TYPE OF CONTROL METHODS USED FO AND NORMAL TRAFFIC PATTERN ROAD PAVED AND HOW FREQUENTLY THESE.	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS G, UNLOADING, PILE MA T? NAME THE TYPE AN  PR FUGITIVE PARTICULA RVING THESE STORAGE ENT AND FREQUENCY OF  OR FUGITIVE PARTICUL DS AT THIS FACILITY. II ROADS WILL BE CLEAN	FANSPORTING  FORMATION.  FORMATION.  TONS/YEAR  S BY WHICH FULLINTENANCE, AID CONCENTRA  ATE EMISSIONS  E PILES. IF SURI  OF ITS USE.  ATE EMISSIONS  F ROADS ARE P.	GITIVE PARTICULATES FE ND WIND EROSION. HOW TION OF SURFACTANT THE FROM CONVEYOR LOADIFACTING AGENT IS USED	YES NO  ROM THESE STORAGE PILES OFTEN WILL THESE PILES LAT WILL BE USED.  ING OPERATIONS AND STATE TYPE AND  IPAVED PARKING LOTS E OF ROADS THAT WILL BE		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR.  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM  TOTAL AMOUNT OF MATERIAL IN THE STORAG  AND SUBMIT AN ATTACHED SHEET DESCRIBIN  I) DETAILED OPERATING PROCEDURES AN WILL BE MINIMIZED DURING LOADING BE TREATED WITH SURFACTING AGEN  II) TYPE OF CONTROL METHODS USED FO NORMAL TRAFFIC PATTERN ROADS SEI CONCENTRATION OF SURFACTING AGE  III) TYPE OF CONTROL METHODS USED FO AND NORMAL TRAFFIC PATTERN ROAD PAVED AND HOW FREQUENTLY THESE  7. DOES THIS FACILITY HAVE ANY OF THE FOLLOWAL) CRUSHERS	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS G, UNLOADING, PILE MA T? NAME THE TYPE AN  PR FUGITIVE PARTICULA RVING THESE STORAGE ENT AND FREQUENCY OF  OR FUGITIVE PARTICUL DS AT THIS FACILITY. II ROADS WILL BE CLEAN	FANSPORTING  FORMATION.  FORMATION.  TONS/YEAR  S BY WHICH FULLINTENANCE, AID CONCENTRA  ATE EMISSIONS  E PILES. IF SURI  OF ITS USE.  ATE EMISSIONS  F ROADS ARE P.	GITIVE PARTICULATES FE ND WIND EROSION. HOW TION OF SURFACTANT THE FROM CONVEYOR LOADIFACTING AGENT IS USED	YES NO  ROM THESE STORAGE PILES OFTEN WILL THESE PILES LAT WILL BE USED.  NG OPERATIONS AND STATE TYPE AND  PAVED PARKING LOTS E OF ROADS THAT WILL BE		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR.  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM.  TOTAL AMOUNT OF MATERIAL IN THE STORAGE AND SUBMIT AN ATTACHED SHEET DESCRIBING.  I) DETAILED OPERATING PROCEDURES AND WILL BE MINIMIZED DURING LOADING.  BE TREATED WITH SURFACTING AGEN.  II) TYPE OF CONTROL METHODS USED FO NORMAL TRAFFIC PATTERN ROADS SEICONCENTRATION OF SURFACTING AGE.  III) TYPE OF CONTROL METHODS USED FO AND NORMAL TRAFFIC PATTERN ROAL PAVED AND HOW FREQUENTLY THESE.  7. DOES THIS FACILITY HAVE ANY OF THE FOLLOW.  a.) CRUSHERS.  b.) GRINDING MILLS	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS G, UNLOADING, PILE MA T? NAME THE TYPE AN  PR FUGITIVE PARTICULA RVING THESE STORAGE ENT AND FREQUENCY OF  OR FUGITIVE PARTICUL DS AT THIS FACILITY. II ROADS WILL BE CLEAN	FANSPORTING  FORMATION.  FORMATION.  TONS/YEAR  S BY WHICH FULLINTENANCE, AID CONCENTRA  ATE EMISSIONS  E PILES. IF SURI  OF ITS USE.  ATE EMISSIONS  F ROADS ARE P.	GITIVE PARTICULATES FE ND WIND EROSION. HOW TION OF SURFACTANT THE FROM CONVEYOR LOADIFACTING AGENT IS USED	YES NO  ROM THESE STORAGE PILES OFTEN WILL THESE PILES LAT WILL BE USED.  NG OPERATIONS AND STATE TYPE AND  PAVED PARKING LOTS E OF ROADS THAT WILL BE  YES NO  YES NO		
EQUIPMENT.  6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM  TOTAL AMOUNT OF MATERIAL IN THE STORAGE  AND SUBMIT AN ATTACHED SHEET DESCRIBIN  I) DETAILED OPERATING PROCEDURES AN WILL BE MINIMIZED DURING LOADING BE TREATED WITH SURFACTING AGENT WITH SURFACTING AGENT ON THE FOLLOGIST OF SURFACTING AGENT OF SURFACTING AGENT ON THE FOLLOGIST OF SURFACTING AGENT ON THE FOLLOGIST OF SURFACTING AGENT ON THE FOLLOGIST OF SURFACTING AGENT ON THE FOLLOGIST OF SURFACTING AGENT ON THE FOLLOGIST OF SURFACTING AGENT ON THE FOLLOGIST OF SURFACTING AGENT OF SURFACTING AGENT OF SURFACTING AGENT OF SURFACTING AGENT OF SURFACTING AGENT OF SURFACTIONS  7. DOES THIS FACILITY HAVE ANY OF THE FOLLOGIST OF SURFACTIONS  8.) GRINDING MILLS  9.) SCREENING OPERATIONS	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS G, UNLOADING, PILE MA T? NAME THE TYPE AN  PR FUGITIVE PARTICULA RVING THESE STORAGE ENT AND FREQUENCY OF  OR FUGITIVE PARTICUL DS AT THIS FACILITY. II ROADS WILL BE CLEAN	FANSPORTING  FORMATION.  FORMATION.  TONS/YEAR  S BY WHICH FULLINTENANCE, AID CONCENTRA  ATE EMISSIONS  E PILES. IF SURI  OF ITS USE.  ATE EMISSIONS  F ROADS ARE P.	GITIVE PARTICULATES FE ND WIND EROSION. HOW TION OF SURFACTANT THE FROM CONVEYOR LOADIFACTING AGENT IS USED	YES NO  NOTION CONTROL  NOTION		
6a. DO STORAGE PILES CONTAIN A TOTAL OF MOR.  6b. IF THE ANSWER TO 6a WAS YES, PLEASE SUBM.  TOTAL AMOUNT OF MATERIAL IN THE STORAGE AND SUBMIT AN ATTACHED SHEET DESCRIBING.  I) DETAILED OPERATING PROCEDURES AND WILL BE MINIMIZED DURING LOADING.  BE TREATED WITH SURFACTING AGEN.  II) TYPE OF CONTROL METHODS USED FO NORMAL TRAFFIC PATTERN ROADS SEICONCENTRATION OF SURFACTING AGE.  III) TYPE OF CONTROL METHODS USED FO AND NORMAL TRAFFIC PATTERN ROAL PAVED AND HOW FREQUENTLY THESE.  7. DOES THIS FACILITY HAVE ANY OF THE FOLLOW.  a.) CRUSHERS.  b.) GRINDING MILLS	E THAN 260,000 TONS O  IT THE FOLLOWING INF GE PILES:  NG:  ND CONTROL METHODS G, UNLOADING, PILE MA T? NAME THE TYPE AN  PR FUGITIVE PARTICULA RVING THESE STORAGE ENT AND FREQUENCY OF  OR FUGITIVE PARTICUL DS AT THIS FACILITY. II ROADS WILL BE CLEAN	FANSPORTING  FORMATION.  FORMATION.  TONS/YEAR  S BY WHICH FULLINTENANCE, AID CONCENTRA  ATE EMISSIONS  E PILES. IF SURI  OF ITS USE.  ATE EMISSIONS  F ROADS ARE P.	GITIVE PARTICULATES FE ND WIND EROSION. HOW TION OF SURFACTANT THE FROM CONVEYOR LOADIFACTING AGENT IS USED	YES NO  ROM THESE STORAGE PILES OFTEN WILL THESE PILES LAT WILL BE USED.  NG OPERATIONS AND STATE TYPE AND  PAVED PARKING LOTS E OF ROADS THAT WILL BE  YES NO  YES NO		

**EXHIBIT 391-5** 

g.) BAGGING OPERATIONS	YES 🔀 NO						
h.) STORAGE BINS	X YES NO						
i.) FINE PRODUCT TRUCK AND TRAILER LOADING OPERATIONS	YES X NO						
j.) UNLOADING AND TRANSPORTING OPERATIONS OF MATERIAL COLLECTED BY POLLUTION CONTROL EQUIPMENT	X YES NO						
k.) UNPAVED NORMAL TRAFFIC ROADS	X YES NO						
I.) PAVED NORMAL TRAFFIC ROADS	X YES NO						
m.) INPAVED PARKING LOTS	☐ YES 🛛 NO						
n.) PAVED PARKING LOTS	YES NO						
7b. FOR EACH SOURCE MARKED YES, ATTACH AN ADDITIONAL SHEET DESCRIBING THE TYPE OF CONTROL METHODS TO CONTROL FUGITIVE PARTICULATE EMISSIONS. IF SURFACTANT IS USED, STATE THE TYPE AND CONCENTRATIONAND FREQUENCY OF ITS APPLICATION. IF THE ROADS AND PARKING LOTS ARE PAVED, STATE THE FREQUENCY OF	ON OF SURFACTANT						
<ol> <li>VEHICULAR MILES TRAVEL INFORMATION:         THIS INFORMATION IS TO BE DETERMINED BY THE NUMBER OF CARS MULTIPLIED BY THE DISTANCE TRAVELED F ROADS.     </li> </ol>	OR THE FOLLOWING						
I) TRAFFIC ON UNPAVED NORMAL TRAFFIC ROADS IN 169,278 MILES PER YEAR	I) TRAFFIC ON UNPAYED NORMAL TRAFFIC ROADS IN 169,278 MILES PER YEAR						
II) TRAFFIC ON PAVED NORMAL TRAFFIC ROADS IN 17,088 MILES PER YEAR							
III) TRAFFIC ON UNPAVED PARKING LOTS IN O MILES PER YEAR							
IV) TRAFFIC ON PAVED PARKING LOTS IN O MILES PER YEAR							
9. IS THIS FUGITIVE PARTICULATE CONTROL PROGRAM IMPLEMENTED AT THE PRESENT? YES 🔀 NO							
10.							
AUTHORIZED SIGNATURE (S): (b)							
BY OUL TO BY SIGNATURE  BY SIGNATURE  SIGNATURE	DATE						
Michael Tran	DAIL						
TYPED OR PRINTED NAME OF SIGNER TYPED OR PRINTED NAME OF SIGNER							
President Title of Manage							
TITLE OF SIGNER TITLE OF SIGNER							

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

YES X NO

# MAT Asphalt, LLC 2055 West Pershing Rd, Chicago, Illinois 60609 FUGITIVE DUST CONTROL PROGRAM

In order to achieve a goal, we are providing the following mandatory program guidelines, to be followed by all plant personnel. This program has been established to coordinate all available means of eliminating or controlling fugitive dust associated with the operation of an asphalt plant.

This plan addresses the regulatory requirements contained in 35 IAC Section 212.301, 212.304 through 212.310, 212.312, and 212.313.

The site layout with normal traffic patterns is included as Attachment 1 to this plan.

All proposed storage piles will be less than 260,000 tons and the Facility has applied for a Federally Enforceable State Operating Permit limiting its "Potential-to-Emit" particulate matter to less than 100 tons/year.

The baghouse control for the proposed plant will meet the PM emission standard of the NSPS for Hot Mix Asphalt Plants (40 CFR 60, Subparts A & I) of 0.04 gr/dscf or less. The material collected by the baghouse will be returned to the asphalt plant as part of the mix through enclosed augers.

#### PROGRAM OBJECTIVES

The effectiveness of this fugitive dust control program will depend upon the active participation and sincere cooperation of all supervisors and employees, and the coordination of their efforts in carrying out the following basic responsibilities.

- A. Plan and supervise all work to reduce possibilities of fugitive dust from leaving the property.
- B. Maintain a system of prompt detection and elimination of fugitive dust episodes.
- C. Provide for the prevention from fugitive dust impacting adjacent public and private property and all persons.
- D. Establish and conduct an educational program to stimulate and maintain interest and participation of all employees.
- E. Once construction is complete this plan will be updated to address any changes that occurred during construction.

Wetting will be the primary method of dust suppression on site. Wetting will be utilized to minimize fugitive dust at least weekly.

#### 1. Program Management and Recordkeeping

- a. The plant manager is responsible for ensuring that the plan is followed and updated in response to any change in operation.
- b. Records of dust control measures are recorded by plant personnel, as delegated by the plant manager, on the fugitive dust control log document created by the IEPA.
- c. Records are kept on site, readily available for review, and are maintained for no less than 5 years.

## 2. Summary of Control Practices Utilized During the Operating Season

- a. All paved or unpaved surfaces where material handling is conducted will be watered at least once per week and all other paved plant roads and surfaces will be cleaned once per week.
- b. Observations will be conducted throughout the day. If dust conditions are noted, additional water will be applied until the dust is no longer observed.
- c. No watering is required if snow covers the area.

- d. End Loader access areas around storage piles and bins will be watered at least once per week, or more frequently, if dust conditions are observed.
- e. All paved surfaces will be cleaned by brooming on a weekly basis by an outside contractor.

#### 3. Roads

- a. Plant speed limits shall be 10 MPH. Signs will be prominently displayed.
- b. Speed limit will be strictly enforced by plant supervisor and safety patrol.

### 4. Storage Piles, Screens, Conveyors and Transfer Points

- a. Spraying with water at a rate equivalent to 0.1 inch of rainfall per operating day unless,
  - 1. measure moisture content exceeds 1.5%\*.
  - 2. rainfall of 0.1 inch has occurred within the last 24 hours.
  - 3. the storage pile is frozen.
  - 4. the storage pile is covered with snow.
  - \*Moisture content is measured and recorded each operating day.
- b. If visible dust at transfer points is observed, water spray will be increased until dust is no longer observed.

c. Material drop heights are minimized to reduce potential dust.

#### 5. Storage Bins

Storage bins inherently provide control against fugitive dust.

a. Loader operators are instructed to not overfill bins to eliminate exposure of material to winds.

#### 6. Portable Crusher

Spray bars wet material entering the crusher as required by the NSPS. Spray bar and crusher operation are interlocked; the crusher cannot operate without operation of the spray bars.

11140803-01 Jul 6, 2017 Attachment 1

APPLICATION PAGE 69

MAT ASPHALT CORPORATION 2055 W PERSHING ROAD CHICAGO, ILLINOIS

HOT MIX ASPHALT PLANT CONSTRUCTION

SITE PLAN

CAD File: 1/drawings/17100000s/17140803/17140803-REPORT/17140803-01(001)/17140803-01(001)GN/17140803-01(001)GN-DE003,6Mg

# IEPA - FUGITIVE DUST CONTROL LOG

DATE	WEATHER	FUGITIVE DUST CONDITION	CORRECTIVE ACTION	TIME
				<del>                                     </del>
				<u> </u>
-				
				<u> </u>
	<del></del>			
	10000			
				-
	<del></del>			
				<u>-</u> .
APPLICATI	ON PAGE 70	<u> </u>		<del></del>



# Illinois Environmental Protection Agency

Bureau of Air • 1021 North Grand Avenue East • P.O. Box 19506 • Springfield • Illinois • 62794-9506

			Fee D	eterminati	on		
	Revision # Page Source De	of	se ate			For Agency Use Number rmit Number te	Only
Se	ction On	e Source Information					
1.	Source	Name: MAT Asphalt, LLC					
2.	Source	I.D. Number: N/A			3. Date	Form Prepared:	7/6/2017
	Complet	o Instructions In Brief te this form to determine the an Program (CAAPP).	nual permi	t fee that is	applicable	to a source under the	Clean Air Act
2,	The emi	ssion levels stated in Section F ome "state only" enforceable pe	our, which rmit condit	are only use ions in the C	ed for the p DAAPP per	ourpose of permit fee mit.	determination,
3.	The Illino order pa Do not s ID numb Note: If	ois EPA does not require paym yable to the Illinois Environmer send cash. On the check mem	ent with thi ital Protect o line, plea ration of vo	s application ion Agency, se list "ID no ur fee in acc	n. When you Send to the condense was	ou are billed make che e address at the top o x". (replace the x's w	of this form. /ith your source
1.	What is t	CAAPP permit Significan	CAAPP pern Modification	nit [] Mi n [] Ac	nor Modifica Iministrative	ition 📝 Initial Ti Amendment*	tle V FESOP**
	Complete	new CAAPP or initial Title V FE the table below. If there is an Attach a detailed description or	increase/de	ecrease in e	missions :	enter the amount of th	ne emissions
		Pollutant	Increase	Decrease	No Change	Quantity of Change	
	ĺ	Nitrogen Oxides (NO <sub>X</sub> )			Ø		
		Particulate Matter (Part)			<b>V</b>		
		Sulfur Dioxide (SO <sub>2</sub> )			<b>✓</b>		
	Ì	Volatile Organic Material (VOM)			<u> </u>	<del></del>	
	Ī	Other (specify)				·	
	ļ	Other (specify)					
	١						
Δ	aminietea	fivo amandmenta may be well	1 . 1				

This agency is authorized to require this information under 39.5 of the Illinois Environmental Protection Act, 415 ILCS 5/39.5. Further disclosure of this information is required under that section, moreover as also provided in that section, failure to provide this information may prevent this application from being processed and could result in the application being denied.

Application Page Page 1 c	RevAPPSHIZETTON PAGE 71	292 - CAAPP	Application Page	Page 1 of 2
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 <sup>\*</sup> Administrative amendments may be used to lower fees.

<sup>\*\*</sup> Initial or new application for a FESOP so that a source would not be subject to the CAAPP, and thus the application must be submitted under the CAAPP.

#### Section Four --- Fee Data

1.	Will the CAAPP source pay the current maximum fee of \$294,000.00 per year?
	☐ Yes ☑ No ☐ Not Applicable If "No", skip step #2 and indicate the allowable emissions in below table.

2. Please include the permitted fee allowable emissions in this table.

Emission Unit <sup>A, C</sup>	Nitrogen Oxides (NO <sub>X</sub> ) (tons/yr)	Particulate Matter (Part) (tons/yr)	Sulfur Dioxide (SO <sub>2</sub> ) (tons/yr)	Volatile Organic Material (VOM) (tons/yr)	Other <sup>B</sup> (specify) (tons/yr)
General FESOP G2951A2 Allowable Emissions	33.24	21.93	38.11	24.86	(torica yr)
,					
				·	<u> </u>
			<del></del>		
			· · · · · · · · · · · · · · · · · · ·		
			···		
Subtotal	33.24	21.93	38.11	24.86	
Fugitive <sup>D</sup>					
Total	33.24	21.93	38.11	24.86	
Grand total across polluta	nts (tons/yr):				118.14
Calculated permit fee: If th by \$21.50, otherwise the a	is grand total is mount of \$2,18	s > 100 tons/yr 50.00 is entered	the number is	s multiplied	\$2,540.01
Minimum permit fee is \$2, year. If the calculated permonents of the calculated permonents of the second permonents of th	mit fee is betwe	en these two f	ee amounts t	hen that amount	\$2,540.01

A Emission Unit - provide the name and flow diagram designation of the emission unit as it appears on the data and information forms. (i.e., CAAPP 240, CAAPP 260F)

B Other - any Hazardous Air Pollutant (HAP) not included as particulate matter or volatile organic material, e.g., chlorine, HCl, etc.

C. Insignificant Activity Emissions are not included for CAAPP sources.

D. Fugitives are required to be included for those categories listed in Section 39.5(2)(c)(ii) of the Act.

	200	04400
APPLICATION	N'HAG	F AAPP



Source: Microsoft Product Screen Shot(s) Reprinted with permission from Microsoft Corporation, Acquisition Date September 2014, Accessed: 2017

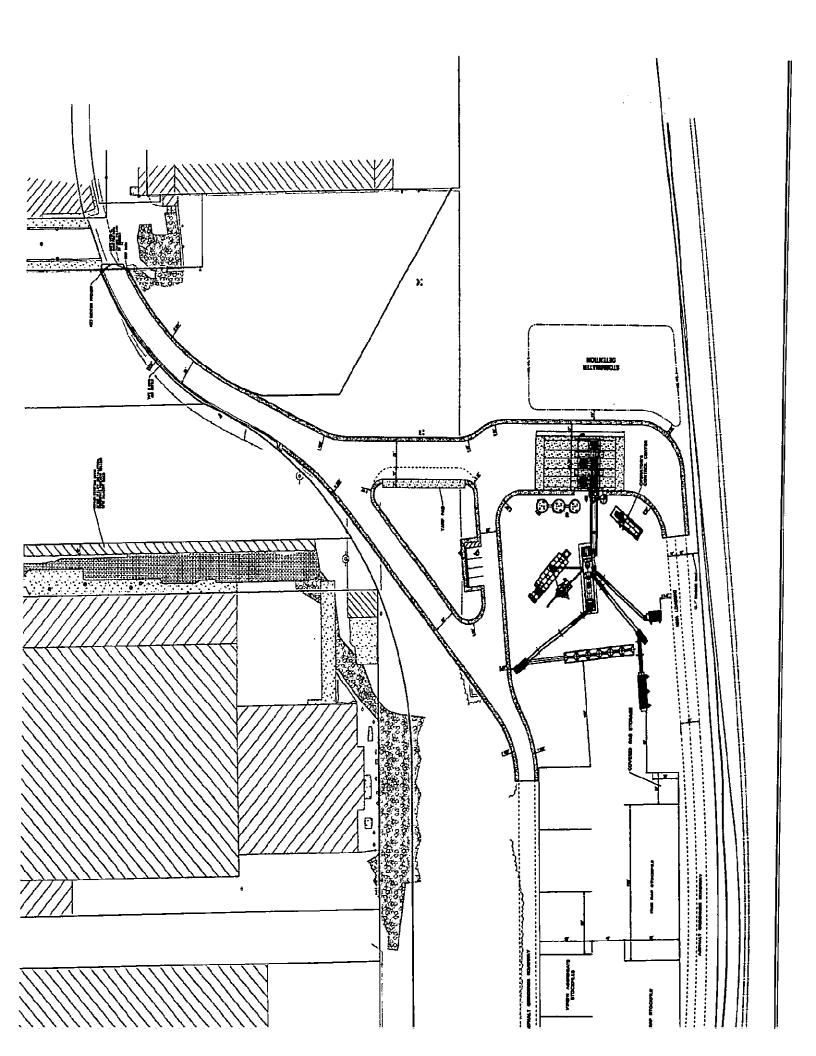






MAT ASPHALT, LLC 2055 W PERSHING ROAD CHICAGO, ILLINOIS SITE LOCATION DIAGRAM 11140803-01 Mar 16, 2017

FIGURE 1



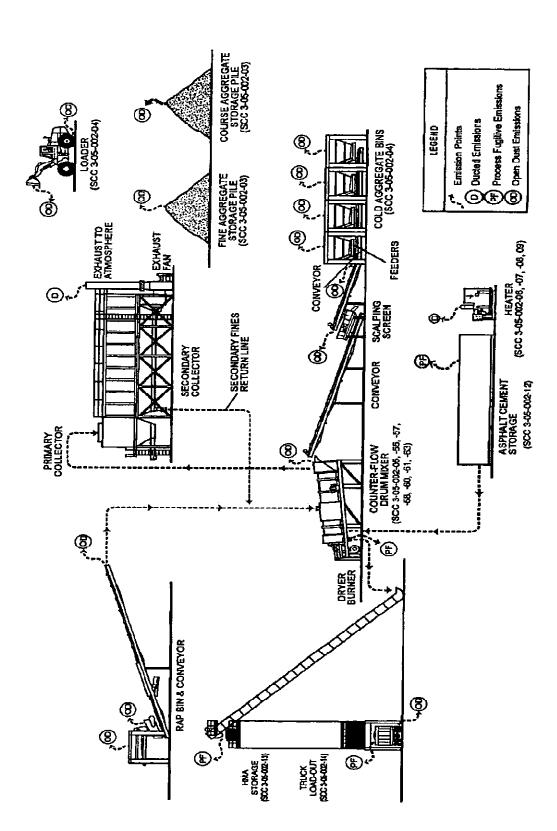


Figure 11.1-3. General process flow diagram for counter-flow drum mix asphalt plants (source classification codes in parentheses).

SOURCE: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, AP-42, VOL. 1: SECTION 11.1 HOT MIX ASPHALT PLANTS

Table 1

#### Summary of Emissions Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

	ļ	Throug	hout		<u></u>				Annı	al Emissio	п		
Emission Source		_			NOx	co	PM	PM <sub>10</sub>	so,	VOM		Single HAP	Total HAP
	Material	(unit/mo)	(unit/yr)	(unit)				(ton/yr)			•	Name	(ton/yr)
Asphalt Plant Handling	Aggregate	350,400	3,504,000	tons	-	-	113.88	40.12	_	-		-	-
Crushing Plant Handling	RAP	131,400	1,314,000	tons		-	24.31	8.61	-	-	_	-	
Crushing	RAP	131,400	1,314,000	tons	-		0.79	0.35	-	-	-	-	_
Drum	Aggregate	350,400	3,504,000	tons	96.35	227.76	133.98	40.19	19.27	56.06	5.43	Formaldehyde	9.38
Truck Loadout	Asphalt Product	350,400	3,504,000	tons	-	2.36	0.91	0.91	<b>-</b>	7.29	0.17	2-Methylnaphthalene	0.60
Silo Filling	Asphalt Product	350,400	3,504,000	tons	-	2.07	1.03	1.03	-	21.35	0.15	Formaldehyde	0.93
AC Storage Tanks	Asphalt Cement	4,339,324	43,393,239	gations	_	_			-	0.24	0.002	Formaldehyde	0.003
Fugitive Emissions From Paved Roads	-	-	-	-	-		127.58	25.52	_	+-		-	
Fugitive Emissions From Unpaved Roads	-	_	-	-	-	*	2,007.02	511.51		_	-		_
Fugitive Emissions From Storage Piles	Recycled AP and Concrete	350,400	3,504,000	tons	-		14.26	6.74	-		_	-	-
				Totals:	96.36	232.19	2,423.75	634.99	19.27	84.94	5.75	Formaldehyde	10.32

		Throug	hout						Anne	al Emissio	r.		
Emission Source	ļ-				NOx	<u> </u>	PM	PM <sub>10</sub>	50,	VOM		Single HAP	Total HA
	Material	(unit/mo)	(unit/yr)	(unit)				(ton/yr)				Name	(ton/yr)
Asphalt Plant Handling	Aggregate	148,333	890,000	tons	-	-	2.27	0.76	-	-	_		_
Crushing Plant Handling	RAP	55,000	425,000	tons		-	0.59	0.20		-	-	-	-
Crushing	RAP	55,000	425,000	tons	-	-	0.26	0.11	7	-	-	-	-
Drum	Aggregate	148,333	890,000	tons	24,48	57.85	34.03	10.21	4.90	14.24	1.38	Formaldehyde	2.38
Truck Loadout	Asphalt Product	148,333	890,000	tons	-	0.60	0.23	0.23	-	1.85	0.04	2-Methylnaphthalene	0.15
Silo Filling	Asphalt Product	148,333	890,000	tons	_	0.53	0.26	0.26	-	5.42	0.04	Formaldehyde	0.08
AC Storage Tanks	Asphalt Cement	1,666,663	10,000,000	gallons	-	-		-	_	0.11	0.001	Formaldehyde	0.001
Fugitive Emissions - Paved Roads	-	_	-	-	-		4.44	0.89	~		-	<u>-</u>	
Fugitive Emissions - Unpaved Roads	_	-	-	-	-	-	90.11	22.97	-	-		-	_
Fugitive Emissions + Storage Piles	Recycled AP and Concrete	148,333	890,000	tons		_	0.72	0.34	-	-		_	-
				Totals:	24.48	58.98	132.91	35.97	4.90	21.62	1.46	Formaldehyde	2.62

	i	Throug	hout						Ално	ral Emissio	п		
Emission Source	ļ <del></del> ,				NOx	co	PM	PM <sub>10</sub>	50,	VOM		Single HAP	Total HA
	Material	(unit/mo)	(unit/yt)	(unit)				(ton/yr)				Name	(ton/yr)
Asphalt Plant Handling	A <u>ge</u> regate	100,800	604,800	tons	-		1.54	0.52	-		-		-
Crushing Plant Handling	RAP	55,000	425,000	tons	-	-	0.59	0.20	-	-	-		-
Crushing	RAP	55,000	425,000	tons	_	-	0.26	0.11	-	-	-	-	-
Drum	Aggregate	100,800	604,800	tons	16.63	39.31	25.6 <del>9</del>	7.71	3.33	9.68	0.94	Formaldehyde	2.14
Truck Loadout	Asphalt Product	60,480	604,800	tons	-	0.41	0.16	0.16	-	1.26	0.03	2-Methylnaphthalene	0.10
Silo Filling	Asphalt Product	60,480	604,800	tons	-	0.36	0.18	0.18	-	3.69	0.03	Formaldehyde	0.06
AC Storage Tanks	Asphalt Cement	748,979	7,489,792	gallons	_	-	_	-	-	0.10	0.001	Formaldehyde	0.001
Fugitive Emissions From Paved Roads	-	_	-	-	-	-	3.02	0.60	-			-	
Fugitive Emissions rom Unpaved Roads	-	~		-	-		45.14	11.50	_		-	-	
Fugitive Emissions From Storage Piles	Recycled AP and Concrete	100,800	604,800	tons			0.49	0.23	_	-	_	_	
			-	Totals:	16.63	40.08	77.06	21.21	3.33	14.72	0.99	Formaldehyde	2.31

Table 2

# Conveyors, Screens, and Portable Crusher Emission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, ULC

Potential, Maximum (Requested), & Typical Emissions

Number   N	:		Throughput			Emission Factor <sup>[1]</sup>	13			Emíssio	Emission Rates		
5         3,504,000         890,000         604,800         PM         0.0030         0.00014           2         3,504,000         890,000         604,800         PM <sub>10</sub> 0.0011         0.0005           1         1,314,000         425,000         425,000         PM <sub>10</sub> 0.0034         0.00054           4         1,314,000         425,000         PM <sub>10</sub> 0.0035         0.00034           1         1,314,000         425,000         PM <sub>10</sub> 0.0031         0.00034           1         1,314,000         425,000         PM <sub>10</sub> 0.0011         0.00035           1         1,314,000         425,000         PM <sub>10</sub> 0.0011         0.00035		Pontential	Maximum	Typical	Pollutant	Uncontrolled	Controlled	Pontential	intial	Maximum <sup>[5]</sup>	ıum <sup>[5]</sup>	Typical <sup>[5]</sup>	E E
t 2 3,504,000 890,000 604,800 PM <sub>10</sub> 0.0030 0.00015  t 2 3,504,000 890,000 604,800 PM <sub>10</sub> 0.0011 0.0005  1 1,314,000 425,000 425,000 PM <sub>10</sub> 0.0030 0.0011 0.00054  t 4 1,314,000 425,000 425,000 PM <sub>10</sub> 0.0011 0.00059  t 1 1,314,000 425,000 425,000 PM <sub>10</sub> 0.0011 0.00059	-		(ton/yr)			1/q1)	ton)	(lb/hr) <sup>(2)</sup>	(ton/yr)	(lb/hr) <sup>(3)</sup>	(ton/yr)	(lb/hr) <sup>[4]</sup>	(ton/yr)
2         3,504,000         890,000         604,800         PM         0.025         0.0022           1         1,314,000         425,000         425,000         425,000         425,000         425,000         425,000         425,000         425,000         425,000         425,000         425,000         60035         0.0005         0.0003         0.0003         0.00005	Plant c	2 504 000	ı	000 000	PM	0:0030	0.00014	90.9	26.28	0.28	0.31	0.25	0.21
2         3,504,000         890,000         604,800         PM         0.025         0.0022           1         1,314,000         425,000         425,000         PM         0.0012         0.00034           4         1,314,000         425,000         425,000         PM         0.0030         0.00014           1         1,314,000         425,000         PM         0.0011         0.00005           1         1,314,000         425,000         PM         0.0025         0.0002	vors	opo/toc/c		2004,000	PM <sub>10</sub>	0.0011	0.00005	2.20	9.64	0.09	0.10	80:0	0.07
1 1,314,000 425,000 425,000 PM <sub>10</sub> 0.0087 0.00074  4 1,314,000 425,000 425,000 PM <sub>10</sub> 0.0035  1 1,314,000 425,000 425,000 PM <sub>10</sub> 0.0025 0.00054  1 1,314,000 425,000 425,000 PM <sub>10</sub> 0.0025 0.00072	Plant 2	3 504 000	000 008	000 005	PM	0.025	0.0022	20.00	87.60	1.76	1.96	1.58	1.33
1         1,314,000         425,000         PM         0.0012         0.00054         0.00054           4         1,314,000         425,000         425,000         PM <sub>10</sub> 0.0011         0.00054           1         1,314,000         425,000         425,000         PM         0.025         0.0025	ins -	200,400,0	000,000	200,4	PM <sub>10</sub>	0.0087	0.00074	96'9	30.48	0.59	99.0	0.53	0.45
4 1,314,000 425,000 425,000 PM 0.0034 0.00054 0.00054 0.00054 0.00054 0.00054 0.00054 0.00054 0.00054 0.00014 0.00014 0.00014 0.00011 0.00005 PM 0.025 0.0012 0.00014 0.0005	, l	1314 000	425,000	700 300	PM	0.0012	0.0012	0.18	0.79	0.23	0.26	0.30	0.26
4         1,314,000         425,000         425,000         PM.io         0.0030         0.00014           1         1,314,000         425,000         425,000         PM         0.025         0.0022	į	2,000,000	45.5,000	742,000	PM <sub>10</sub>	0.00054	0.00054	90.0	0.35	0.10	0.11	0.14	0.11
1 1,314,000 425,000 425,000 PM 0.025 0.0022	Plant	1317,000		700 200	PM	0:0030	0.00014	1.80	7.88	0.11	0.12	0.14	0.12
1 1,314,000 425,000 425,000 PM 0.025 0.0022	vors	2001-101-		300,224	PM <sub>10</sub>	0.0011	0.00005	99'0	2.89	0.04	0.04	0.05	0.04
ערטטטט רפטטט האפט האפט האפט האפט האפט האפט האפט	Plant 1	1 21/ 000	700 307	700 300	PV	0.025	0.0022	3.75	16.43	0,42	0.47	95.0	0.47
0.0037	ı.	000/F15/1	42,000	423,000	PM <sub>10</sub>	0.0087	0.00074	1.31	5.72	0.14	0.16	0.19	0.16

<sup>13</sup>Emission Factor Calculated From AP-42, Section 11.19-2, Table 11.19.2-2.

8,750 hr/yr <sup>[2]</sup>Rates Based on Hours of Operation of

2,225 hr/yr 1,680 hr/yr <sup>[3]</sup>Rates Based on Hours of Operation of

<sup>[4]</sup>Rates Based on Hours of Operation of

<sup>[5]</sup>Control through moisture content

# **Calculation Procedures**

Annual Emission Rates (ton/γr) = Throughput (ton/γr) x Number of Units x Emission Factor (lb/ton) x (1 ton / 2000 lb) Hourly Emission Rates (lb/hrr) = Annual Emission Rates (ton/yr) / Hours of Operation (hr/yr) / (1 ton / 2000 lb)

Table 3

#### Material Drying Particulate Matter Emission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

#### Potential to Emit

Process	Control Device	Material	Produced	Baghouse E	mission Factors <sup>[2]</sup>	Baghouse Exhaust	Emi	ssion Rates	[1]
Description		Hourly	Annual <sup>(1)</sup>	Pollutant	Outlet Loading	Flow Rate	5 U	Hourly	Annual <sup>(1)</sup>
	<del> </del>	(ton/hr)	(ton/уг)	Tonutant	(gr/dscf)	(cfm)	Pollutant	(lb/hr)	(ton/yr)
Drum Mix Plant	Baghouse with	400	3,504,000	PM	0.040	89,217	PM	30.59	133.98
	Fabric Filter			PM <sub>10</sub> <sup>[2]</sup>	0.012	,,,,,,,,	PM <sub>10</sub>	9.18	40.19

<sup>&</sup>lt;sup>(1)</sup>Annual Rates Based on Hours of Operation of

8,760 hr/yr

#### Maximum (Requested) Emissions

Process	Control Device	Material	Produced	Baghouse	Emission Factor <sup>[2]</sup>	Baghouse Exhaust	Emi	ssion Rates	[1]
Description		Hourly	Annual <sup>[1]</sup>	Pollutant	Outlet Loading	Flow Rate		Hourly	Annual <sup>[1]</sup>
		(ton/hr)	(ton/yr)	Foliatent	(gr/dscf)	(cfm)	Pollutant	(lb/hr)	(ton/yr)
Drum Mix Plant	Baghouse with	400	890,000	PM	0.040	89,217	PM	30.59	34.03
	Fabric Filter		,,,,	PM <sub>10</sub> <sup>[2]</sup>	0.012	03,217	PM <sub>10</sub>	9.18	10.21

<sup>&</sup>lt;sup>[1]</sup>Annual Rates Based on Hours of Operation of

2,225 hr/yr

#### Typical Emissions

Process	Control Device	Material	Produced	Baghouse I	mission Factors <sup>[2]</sup>	Baghouse Exhaust	Emi	ssion Rates	[1]
Description	SOME OF BETTEE	Hourly	Annuai <sup>[1]</sup>	Pollutant	Outlet Loading	Flow Rate		Hourly	Annual <sup>(1)</sup>
		(ton/hr)	(ton/yr)	ronutant	(gr/dscf)	(cfm)	Pollutant	(lb/hr)	(ton/yr)
Drum Mix Plant	Baghouse with	360	604.800	PM	0.040	00.242	PM	30.59	25,69
	Fabric Filter		007,000	PM <sub>10</sub> <sup>[2]</sup>	0.012	89,217	PM <sub>10</sub>	9.18	7.71

<sup>&</sup>lt;sup>[1]</sup>Annual Rates Based on Hours of Operation of

1,680 hr/yr

#### **Calculation Procedures**

Hourly Emission Rates (lb/hr) = Baghouse Exhaust Flow Rate (cfm)  $\times$  Outlet Loading (gr/scf)  $\times$  (1 lb / 7000 gr)  $\times$  (60 min / 1 hr) Annual Emission Rates (ton/yr) = Hourly Emission Rates (lb/hr)  $\times$  Hours of Operation (hr/yr)  $\times$  (1 ton / 2000 lb)

<sup>[2]</sup> PM emission requirement of 40 CFR 60.92(a) and PM10 Calculated from Size Distribution from AP-42, Section 11.1, Table 11.1-4 (PM10 = 30% PM).

<sup>&</sup>lt;sup>[2]</sup>PM emission requirement of 40 CFR 60.92(a) and PM10 Calculated from Size Distribution from AP-42, Section 11.1, Table 11.1-4 (PM10 = 30% PM). This emission rate is larger than calculations using the controlled drum emission factor from AP-42 that is used in the general FESOP. When the Facility applies for a FESOP, the AP-42 factor will be used.

<sup>[2]</sup>PM emission requirement of 40 CFR 60.92(a) and PM10 Calculated from Size Distribution from AP-42, Section 11.1, Table 11.1-4 (PM10 = 30% PM).

Table 4

# Material Drying Combustion Emission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

#### Potential to Emit

	. –	Material	Produced	Emissi	on Factors <sup>(2)</sup>		- 111
Process Description	Control Device	Hourly	Annual <sup>[1]</sup>	Dallutant	(1)- (1-1)	Emission	n Rates <sup>[1]</sup>
		(ton/hr)	(ton/yr)	Pollutant 	(lb/ton product)	(lb/hr)	(ton/yr)
Drum				NOx	0.055	22.00	96.36
(Natural Gas or No. 2 Fuel Oil	Baghouse with Fabric Filter (PM Only)		3,504,000	CO	0.13	52.00	227.76
		400		CO2	33.00	13,200	57,816
Combustion)				SO <sub>2</sub>	0.0110	4.40	19.27
				VOM	0.032	12.80	56.06

<sup>&</sup>lt;sup>[1]</sup>Annual Rates Based on Hours of Operation of

8,760 hr/yr

#### Maximum (Requested) Emissions

	,	Material	Produced	Emissi	on Factors <sup>[2]</sup>		
Process Description	Control Device	Hourly	Annual <sup>[1]</sup>	D-U-44	(1)- (+	Emission	n Rates <sup>[1]</sup>
		(ton/hr)	(ton/yr)	Pollutant	(lb/ton product)	(lb/hr)	(ton/yr)
Drum	1 1"			NOx	0.055	22.00	24.48
(Natural Gas or No. 2 Fuel Oil	Baghouse with		890,000	со	0.13	52.00	57.85
	Fabric Filter (PM Only)	400		CO <sub>2</sub>	33.00	13,200	14,685
Combustion)				SO <sub>2</sub>	0.0110	4.40	4.90
				VOM	0.032	12.80	14.24

<sup>[1]</sup> Annual Rates Based on Hours of Operation of

2,225 hr/yr

#### **Typical Emissions**

	· ·	Material I	Produced	Emissi	on Factors <sup>(2)</sup>		_ (1)
Process Description	Control Device	Hourly	Annuai <sup>[1]</sup>	Pollutant	(lb (tan product)	(lb/hr) 19.80 46.80 11,880	Rates'-'
		(ton/hr)	(ton/yr)	ronutant	(lb/ton product)	(lb/hr)	(ton/yr)
Drum				NOx	0.055	5 19.80 46.80	16.63
(Natural Gas or	Baghouse with		l L	co	0.13		39.31
No. 2 Fuel Oil	Fabric Filter		11,880	9,979			
Combustion)	(PM Only)		<u> </u>	SO <sub>2</sub>	0.0110	3.96	3.33
				VOM	0.032	11.52	9.68

<sup>&</sup>lt;sup>[1]</sup>Annual Rates Based on Hours of Operation of

1,680 hr/yr

#### **Calculation Procedures**

Hourly Emission Rates (lb/hr) = Hourly Material Produced (ton/hr)  $\times$  Emission Factor (lb/ton product) Annual Emission Rates (ton/yr) = Hourly Emission Rates (lb/hr)  $\times$  Hours of Operation (hr/yr)  $\times$  (1 ton / 2000 lb)

<sup>&</sup>lt;sup>[2]</sup>Emissions Factors From AP-42, Section 11.1, Hot Mix Asphalt Plants, Tables 11.1-7 and 11.1-8, #2 Oil Firing Drum.

<sup>&</sup>lt;sup>[2]</sup>Emissions Factors From AP-42, Section 11.1, Hot Mix Asphalt Plants, Tables 11.1-7 and 11.1-8, #2 Oil Firing Drum.

<sup>[2]</sup> Emissions Factors From AP-42, Section 11.1, Hot Mix Asphalt Plants, Tables 11.1-7 and 11.1-8, #2 Oil Firing Drum.

Table 5

#### Dryer Combustion HAP Emission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

Potential, Maximum (Requested), & Typical Emissions

		Emission Factors	PTE Drye	er Operation			um Dryer eration	T		al Dryer eration
CAS No.	Pollutant	Emission actors	400	ton/hr	] [	400	ton/hr	1	360	ton/hr
	· ·		Emissi	n Rate <sup>[2]</sup>	11	Emissi	on Rate <sup>[3]</sup>	]	Emissi	on Rate <sup>[4]</sup>
		(lb/ton product) <sup>[1]</sup>	(lb/hr)	(ton/yr)		(lb/hr)	(ton/yr)		(lb/hr)	(ton/yr)
71-43-2	Benzene	0.00039	1.56E-01	6.83E-01	П	1.56E-01	0.1736	Ť	1.40E-01	0.1179
100-41-4	Ethylbenzene	0.00024	9.60E-02	4.20E-01	1 [	9.60E-02	0.1068	7	8.64E-02	<del></del>
50-00-0	Formaldehyde	0.0031	1.24E+00	5.43E+00	1 [	1.24	1.3795	1	1.12E+00	
110-54-3	Hexane	0.00092	3.68E-01	1.61E+00		3.68E-01	0.4094	1	3.31E-01	0.2782
540-84-1	Isooctane (2,2,4-trimethylpentane)	4.00E-05	1.60E-02	7.01E-02	1	1.60E-02	0.0178	1	1.44E-02	0.0121
71-55-6	Methyl Chloroform	4.80E-05	1.92E-02	8.41E-02	1 [	1.92E-02	0.0214	1	1.73E-02	0.0145
108-88-3	Toluene	0.00015	6.00E-02	2.63E-01	T	6.00E-02	0.0668	1	5.40E-02	0.0454
1330-20-7	Xylene	0.0002	8.00E-02	3.50E-01	1	8.00E-02	0.0890	1	7.20E-02	0.0605
91-57-6	2-Methylnaphthalene	7.40E-05	2.96E-02	1.30E-01	▎▐	2.96E-02	0.0329	1	2.66E-02	0.0224
83-32-9	Acenaphthene	1.40E-06	5.60E-04	2.45E-03	i	5.60E-04	6.23E-04	1	5.04E-04	4.23E-04
208-96-8	Acenaphthylene Acenaphthylene	8.60E-06	3.44E-03	1.51E-02	╽┟	3.44E-03	3.83E-03	1	3.10E-03	2.60E-03
120-12-7	Anthracene	2.20E-07	8.80E-05	3.85E-04		8.80E-05		-4	7.92E-05	6.65E-05
56-55-3	Benzo(a)anthracene	2.10E-07	8.40E-05	3.68E-04	▎▐	8.40E-05		-	7.56E-05	6.35E-05
50-32-8	Benzo(a)pyrene	9.80E-09	3.92E-06	1.72E-05		3.92E-06	_	-	3.53E-06	2.96E-06
205-99-2	Benzo(b)fluoranthene	1.00E-07	4.00E-05	1.75E-04	l I	4.00E-05		1	3.60E-05	3.02E-05
192-97-2	Benzo(e)pyrene	1.10E-07	4.40E-05	1.93E-04		4.40E-05		1	3.96E-05	3.33E-05
191-24-2	Benzo(g,h,i)perylene	4.00E-08	1.60E-05	7.01E-05	` -	1.60E-05		1	1.44E-05	1.21E-05
207-08-9	Benzo(k)fluoranthene	4.10E-08	1.64E-05	7.18E-05		1.64E-05	1.82E-05	1	1.48E-05	1.24E-05
218-01-9	Chrysene	1.80E-07	7.20E-05	3.15E-04	-	7.20E-05	8.01E-05	ı	6.48E-05	5.44E-05
206-44-0	Fluoranthene	6.10E-07	2.44E-04	1.07E-03		2.44E-04	2.71E-04	İ.	2.20E-04	1.84E-04
86-73-7	Fluorene	3.80E-06	1.52E-03	6.66E-03		1.52E-03	1.69E-03	1	1.37E-03	1.15E-03
193-39-5	Indeno(1,2,3-cd)pyrene	7.00E-09	2.80E-06	1.23E-05		2.80E-06	3.12E-06	1	2.52E-06	2.12E-06
91-20-3	Naphthalene	9.00E-05	3.60E-02	1.58E-01		3.60E-02	4.01E-02	ı	3.24E-02	2.72E-02
198-55-0	Perylene	8.80E-09	3.52E-06	1.54E-05	-	3.52E-06	3.92E-06	ı	3.17E-06	2.66E-06
85-01-8	Phenanthrene	7.60E-06	3 04E-03	1.33E-02	_	3.04E-03	3.38E 03	П	2.74E-03	2.30E-03
129-00-0	Pyrene	5.40E-07	2.16E-04	9.46E-04	-	2.16E-04	2.40E-04		1.94E-04	1.63E-04
7440-36-0	Antimony	1.80E-07	7.20E-05	3.15E-04	_	.20E-05	8.01E-05	П	6.48E-05	5.44E-05
7440-38-2	Arsenic	5.60E-07	2.24E-04	9.81E-04	_	2.24E-04	2.49E-04	П	2.02E-04	1.69E-04
7440-41-7	Beryllium	0.00E+00	0.00E+00	0.00E+00			0.00E+00	Н	0.00E+00	0.00E+00
7440-43-9	Cadmium	4.10E-07	1.64E-04	7.18E-04		.64E-04	1.82E-04	l	1.48E-04	1.24E-04
7440-47-3	Chromium	5.50E-06	2.20E-03	9.64E-03	_	.20E-03	2.45E-03		1.98E-03	1.66E-03
7440-48-4	Cobalt	2.50E-08	1.04E-05	4.56E-05	_		1.16E-05		9.36E-06	7.86E-06
7440-47-3	Hexavalent Chromium	4.50E-07	1.80E-04	7.88E-04	_	80E-04	2.00E-04		1.62E-04	1.36E-04
7439-92-1	Lead	6.20E-07	2.48E-04	1.09E-03	_	48E-04	2.76E-04	ŀ	2.23E-04	1.87E-04
439-96-5	Manganese	7.70E-06	3.08E-03	1.35E-02	_	08E-03	3.43E-03	╽╏	2.77E-03	2.33E-03
439-97-6	Mercury	2.40E-07		4.20E-04	_		1.07E-04	ŀ	8.64E-05	7.26E-05
440-02-0	Nickel	6.30E-05	2.52E-02	1.10E-01	_		2.80E-02	╽	2.27E-02	1.91E-02
782-49-2	Selenium	3.50E-07	-	6.13E-04	-	40E-04	1.56E-04	╽	1.26E-04	1.06E-04
		Totals>>>	2.14	9.38	┿	2.14	2.38	+	1.93	2.14

 $<sup>^{[1]}</sup>$ Emissions Factors From AP-42, Section 11.1, Hot Mix Asphalt Plants, Table 11.1-10

#### **Calculation Procedures**

Hourly Emission Rates (lb/hr) = Hourly Material Produced (ton/hr)  $\times$  Emission Factor (lb/ton product) Annual Emission Rates (ton/yr) = Hourly Emission Rates (lb/hr)  $\times$  Hours of Operation (hr/yr)  $\times$  (1 ton / 2000 lb)

<sup>&</sup>lt;sup>[2]</sup>Annual Rates Based on Hours of Operation of 8,760 hr/yr

<sup>[3]</sup>Annual Rates Based on Hours of Operation of 2,225 hr/yr

<sup>[4]</sup>Annual Rates Based on Hours of Operation of 1,680 hr/yr

Table 6

# Silo Filling and Loadout Criteria Pollutant Emission Calculations Hot Mix Asphalt Plant Construction Pemit Application MAT Asphalt, LLC

Potential, Maximum (Requested), & Typical Emissions

Emission		Throughput	į	Emis	Emission Factor <sup>(1)</sup>			Emission Rates	Rates		
Saurce	Potential	Potential Maximum	Typical			Potential	ntial	Maxi	Maximum	Typical	cal
#		(ton/yr)		Pollutant	(lb/ton Throughput)	(1b/hr) <sup>[2]</sup>	(ton/yr)	(lb/hr) <sup>[3]</sup> (ton/yr)	(ton/yr)	(lb/hr) <sup>(3)</sup>	(ton/yr)
Silo Truck				PM/PM <sub>10</sub>	0.00052	0.21	0.91	0.21	0.23	0.14	0.16
Load-out	3,504,000	000′068	604,800	NOV	0.00416	1.66	7.29	1.56	1.85	1.13	1.26
				00	0.00135	0.54	2.36	0.54	0.60	0.37	0.41
				PM/PM <sub>10</sub>	0.00059	0.23	1.03	0.23	0.26	0.16	0.18
Silo Filling	Silo Filling 3,504,000	890,000	604,800	NOM	0.01219	4.87	21.35	4.87	5.42	3.31	3.69
				00	0.00118	0.47	2.07	0.47	0.53	0.32	0.36

<sup>[1]</sup>Emission Factors Calculated From AP-42, Section 11.1, Table 11.1-14 (At 325°F these factors match the General FESOP)

<sup>[2]</sup>Rates Based on Hours of Operation of

8,760 hr/yr

<sup>[3]</sup>Rates Based on Hours of Operation of

2,225 hr/yr

# **Emission Factor Determination**

Pollitant	>	_	T ( <sup>2</sup> F)	Emis	Emission Factor <sup>[1]</sup>
	-	Load-Out	Filling	Load-Out	Filling
PM				0.000522	0.000586
NOM	-0.5	325	325	0.00416	0.0122
8				0.00135	0.00118

<sup>(1)</sup>Emission Factors Calculated From AP-42, Section 11.1, Table 11.1-14 (At 325°F these factors match the General FESOP)

# Calculation Procedures

Hourly Emission Rates (lb/hr) = Annual Emission Rates (ton/yr) / Hours of Operation (hr/yr) / (1 ton / 2000 lb) Annual Emission Rates (ton/yr) = Throughput (ton/yr)  $\times$  Emission Factor (lb/ton throughput)  $\times$  (1 ton / 2000 lb)

1.

# Silo Filling and Loadout HAP Errission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

Potential, Maximum (Requested). & Typical Emissions

	,	Throughput				<b>Ξ</b>					Emission Rates	ı Rates		
Source	Pontential	Pontential Maximum	Typical			Emission Factor**			Ponte	Pontential	Maximum	mur	Typical	[   
		(ton/yr)	:	Category	(lb/ton Product)	Pollutant <sup>I2</sup>	(%)	(1b/ton Product) (1b/hr) <sup>[3]</sup> (ton/yr) (1b/hr) <sup>[4]</sup>	(lb/hr)	(ton/yr)	(lb/hr) <sup>HI</sup>	(ton/yr)	(ton/yr) (lb/hr) <sup>[43</sup> (ton/yr)	(ton/yr)
				Organic P&A	7 0000	2-Methylnaphthalene	2.38%	9.47E-05	0.15	0.17	70°0	0.04	0.03	0.03
Silo Truck	3 504 000	000 008	GOA BOO		2000	Total HAP	7.11%	2.83E-04	0.45	0.50	0.11	0.13	90.0	0.0
Load-out	•	-	nan'tan	Z	. 200	Xylene	0.41%	1.71E-05	0.03	0.03	100	0.01	4.63E-03	0.01
				2	71.00.1	Total HAP	1.50%	6.24E-05	0.10	0.11	0.02	0.03	0.02	0.02
				Organic DM	0000	2-Methytnaphthalene	5.27%	1.34E-05	0.02	0.02	0.01	0.01	3.64E-03	4.05E-03
Silo Filling	Silo Filling 3.504 000	890 000	GOA SOO	10.00	Page 1	Fotal HAP	11.40%	2.89E-05	0.05	0.05	0.01	0.01	7.87E-03	8.75E-03
				Z S	.6.00	Formaldehyde	0.69%	8.416-05	0.13	0.15	0.03	9.0	0.02	0.03
				5	*****	Total HAP	1.30%	1.58E-04	0.25	0.28	90'0	0.07	S	0.05

<sup>(1)</sup> Emission Factor Calculated From AP-42, Section 11.1, Tables 11.1-14, 15, & 16.

Calculation Procedures

HAP Emission Factor (Ib/ton Throughput) = Category Emission Factor (Ib/ton Throughput) × Pollutant Percentage of Category (%)

Annual Emission Rates (ton/yr) = Throughput (ton/yr) × HAP Emission Factor (Ib/ton throughput) × (1 ton / 2000 Ib)

Hourly Emission Rates (Ib/hrr) = Annual Emission Fates (ton/yr) / Hours of Operation (hr/yr) / (1 ton / 2000 Ib)

<sup>&</sup>lt;sup>(3)</sup>Pollutant Listed Represents the Largest Single HAP

<sup>8,760</sup> hr/yr 2,225 hr/yr (3)Rates Based on Hours of Operation of

<sup>&</sup>lt;sup>44</sup>Rates Based on Hours of Operation of

#### Table 8

# Storage Tank Emission Summary Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

Potential to Emit (PTE)

	_		VO	M Emissions <sup>[1]</sup>		Percentage of	1145
Emission Unit	Capacity	Throughput	Working Loss	Breathing Loss	Total	VOM that is also HAP <sup>[2]</sup>	HAP Emissions
	(gal)	(gal/yr)	(lb/yr)	(lb/yr)	(ton/yr)	(%)	(ton/yr)
Asphalt Cement Tank	35,000	14,464,413	157.81	0.76	0.08	1.3%	0.001
Asphalt Cement Tank	35,000	14,464,413	157.81	0.76	0.08	1.3%	0.001
Asphalt Cement Tank	35,000	14,464,413	157.81	0.76	0.08	1,3%	0.001
	· <del>-</del>		473.43	2.28	0.24	_	0.003

 $<sup>^{[1]}</sup>$ See attached TANK 4.0 Emission Reports, as Appendix B

Maximum Emissions

			VO	M Emissions <sup>[1]</sup>		Percentage of	
Emission Unit	Capacity	Throughput	Working Loss	Breathing Loss	Total	VOM that is also HAP <sup>[2]</sup>	HAP Emissions
	(gal)	(gal/yr)	(lb/yr)	(lb/yr)	(ton/yr)	(%)	(ton/yr)
Asphalt Cement Tank	35,000	3,333,333	72.18	0.76	0.04	1.3%	4.74E-04
Asphalt Cement Tank	35,000	3,333,333	72.18	0.76	0.04	1.3%	4.74E-04
Asphalt Cement Tank	35,000	3,333,333	72.18	0.76	0.04	1.3%	4.74E-04
			216.54	2.28	0.11		1.42E-03

 $<sup>^{[1]}</sup>$ See attached TANK 4.0 Emission Reports, as Appendix B

#### Typical Emissions

			vo	M Emissions <sup>[1]</sup>		Percentage of	LIAD
Emission Unit	Capacity	Throughput	Working Loss	Breathing Loss	Total	VOM that is also HAP <sup>[2]</sup>	HAP Emissions
	(gal)	(gal/yr)	(lb/yr)	(lb/yr)	(ton/yr)	(%)	(ton/yr)
Asphalt Cement Tank	35,000	2,496,597	65.80	0.76	0.03	1,3%	4.33E-04
Asphalt Cement Tank	35,000	2,496,597	65.80	0.76	0.03	1.3%	4.33E-04
Asphalt Cement Tank	35,000	2,496,597	65.80	0.76	0.03	1.3%	4.33E-04
			197.40	2.28	0.10	-	0.001

 $<sup>^{[1]}</sup>$ See attached TANK 4.0 Emission Reports, as Appendix B

#### Vapor Pressure Calculation for TANKS 4.0.9d Input (Antoine's Equation)

Average Temperature (T) = 325 435.93 K P<sub>325F</sub> = 0.0183 psia A = 75,350.06 B = 9.00346(AP-42 Page 11.1-9) P<sub>275F</sub> = 0.0044 psia  $log_{10}P = \frac{-0.05223 * A}{T} + B =$ P<sub>350F</sub> = 0.0347 psia -0.0244 0.9453 mmHg Density of Asphaltic Cement (ib/gal) = 9.17 0.01828 psia

<sup>[2]</sup> Emission factor (% of VOM) for HAP from AP-42 Section 11.1, Table 11.1-16 (Storage Tank) (0.69% Formaldeyde is Single Largest HAP).

<sup>[2]</sup> Emission factor (% of VOM) for HAP from AP-42 Section 11.1, Table 11.1-16 (Storage Tank) (0.69% Formaldeyde is Single Largest HAP).

<sup>[2]</sup> Emission factor (% of VOM) for HAP from AP-42 Section 11.1, Table 11.1-16 (Storage Tank) (0.69% Formaldeyde is Single Largest HAP).

Table 9

#### Paved Road Traffic Fugitive Emission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

	Average Vehicle Weight	Total	Miles Traveled	(VMT)	Emis		Unce	entrolled Emis	sions	Сол	rolled Emissi	ons <sup>(2)</sup>		
Emission Source	(W)	Potential	Maximum	Typical	Facto	ors <sup>[1]</sup>	Potential	Maximum	Typical	Potential	Maximum	Typical		
	(ton)		(mi/yr)		(1Ь/∨	MT)		(ton/yr)	_		(ton/yr)			
Paved Road Truck Traffic	32.5 98,	32.5	32.5 98				РМ	2.60	127.58	22.22	15.10	25.52	4.44	3.02
				32.5 98,112	17,088	11,612	PM <sub>10</sub>	0.52	25.52	4.44	3.02	5.10	0.89	0.60
					PM <sub>2.5</sub>	0.13	6.26	1.09	0.74	1.25	0.22	0.15		

 $^{
m [1]}$ Emission factors calculated following Equation 1 of AP-42 Section 13.2.1.3,

$$E\left(\frac{lb}{VMT}\right) = k \cdot (sL)^{0.91} \cdot (W)^{1.02}$$
 as demonstrated below.

 $^{[2]}$ Assumed control efficiency through implementation of fugitive particulate operating program of

80%

k = Constant (lb/VMT)

sL = Sift Loading Value (g/m<sup>2</sup>)

a = Dimensionless Constant

W = Mean Vehicle Weight (ton) = (20 tons/empty truck + 45 tons/full truck)/2 = 32.5 tons

b = Dimensionless Constant

Emission Fa	<u>ctor Determin</u>	nation
Pollutant	Param	ieter
Pollutant	k	sL_
PM	0.011	
PM <sub>10</sub>	0.0022	8.2
PM <sub>2.5</sub>	0.00054	

#### VMT Calculation

Parameter	Pote	ntial	Maxi	mum	Тур	pical		
	in	Out	ln	Out	In	Out	Units	
Mean Weight Per Load:	·		25				tons/load	
Weight In/Out Annually:	3,504,000	3,504,000	890,000	890,000	604,800	604.800	tons/vr	
Total Loads:	280,320	280,320	71,200	71,200	48,384	48,384	load/vr	
Distance Load:	0.22	0.13	0.11	0.13	0.11		mi/load produced	
Total Loadout Distance:	98,3	12	17.0	188	11,6		mi/yr	

Table 10

#### Unpaved Road Traffic Fugitive Emission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

	Average Vehicle	Total M	liles Traveled	(TMV)	Emis	sion	Uncor	ntrolled Emi	ssions	Contr	olled Emissi	ons <sup>[2]</sup>				
Emission Source	Weight (W)	Potential	Maximum	Typical	Facto	ors <sup>[1]</sup>	Potential	Maximum	Typical	Potential	Maximum	Typical				
	(ton)		(mi/yr)		(1b/∿	•		(ton/yr)			(ton/yr)					
					PM	5.32	2007.02	450.55	225.69	401.40	90.11	45.14				
Unpaved Plant Haul Roads Traffic	15	754,061	169,278	169,278	84,793	169,278 84,793	69,278 84,793	84,793	PM <sub>10</sub>	1.36	511.51	114.83	57.52	102.30	22.97	11.50
	<u> </u>				PM <sub>2.5</sub>	0.14	51.15	11.48	5.75	10.23	2.30	1.15				

 $^{[1]}$ Emission factors calculated following Equation 1a of AP-42 Section 13.2.2,

 $E\left(\frac{lb}{VMT}\right) = k \cdot \left(\frac{s}{12}\right)^a \cdot \left(\frac{W}{3}\right)^b$ 

as demonstrated below.

 $^{[2]}\!\text{Control through wetting of 80%}.$ 

k = Constant (Ib/VMT)

s = Surface Silt Content (%)

a = Dimensionless Constant

W = Mean Vehicle Weight (ton)

b = Dimensionless Constant

D-11		Par	ameter	•
Poliutant	k	5	а	ь
PM	4.9		0.7	0.45
PM <sub>10</sub>	1.5	4.8	0.9	0.45
PM <sub>2.5</sub>	0.15	1	0.9	0.45

#### VMT Calculations

Parameter	Pote	ntial	Max	imum	Тур	cal	Units	
roiametei	To Pile	To Bins	To Pile	To Bins	To Pile	To Bins	Units	
Mean Weight Per Load:				2			tons/load	
Welght Moved:	3,504,000	3,504,000	890,000	890,000	604,800	604,800	tons/yr	
End-Loader Total Loads:	1,752,000	1,752,000	445,000	445,000	302,400	302,400	load/yr	
Distance Load:	0.20	0.20	0.20	0.15	0.10	0.15	mi/load moved	
Total Endloader Distance:	700	,800	155	,750	75,6	mi/yr		

Parameter	Pote	ntlal	Max	lmum	Турі	ical	Units	
r aramete.	To Piles	To Silos	Ta Piles	To Silos	To Piles	To Silos	Units	
Mean Weight Per Load:				25		-	tons/load	
Weight Moved:	3,504,000	3,504,000	890,000	890,000	604,800	604,800	tons/yr	
Total Loads:	140,160	140,160	35,600	35,600	24,192	24,192	load/yr	
Distance Load:	0.19	0.19	0.19	0.19	0.19	0.19	mi/load moved	
Total HMA & Aggregate Truck Distance:	53,	261	13,	,528	9,19	93	mi/yr	

Table 11

Storage Pile Loading Fugitive Emission Calculations Hot Mix Asphalt Plant Construction Permit Application MAT Asphalt, LLC

		Throughput		Emis	Emission	้า	Uncontrolled Emissions	ıns		Controlled Emissions <sup>[2]</sup>	[2]
Describing	Potential	Maximum	Typical	Fact	Factors <sup>tri</sup>	Potential	Maximum	Typical	Potential	Maximim	Terion
		(ton/yr)		/q <sub>1</sub> )	[lb/ton]		(ton/yr)		<u>.</u>	(ton(vr)	
										fal final	
Loading Material				PM	8.14E-03	14.26	3.62	2.46	2,85	0.72	0.49
Onto Storage Diles	3,504,000	890,000	604,800	PM <sub>10</sub>	3.85E-03	6.74	1.71	1.16	1.35	0.34	0.23
30000				FM2.5	FM <sub>2,5</sub> 5,83E-04	1.02	0.26	0.18	0.20	0.05	0.04

<sup>[1]</sup>Emission factors are calculated using the drop equation from AP-42 Section 13.2.4-4, using the parameters below. E(lb/ton) = 0.0032\*k\*(U/5)^1.3/iM/2)^1.4

<sup>(2)</sup>Control through wetting of 80%.

k = Dimensionless Multiplier Based on Particle Size

U = Mean Wind Speed (mph)

M = Average Moisture Content (%)

	Multiplier	Wind	Moisture	Emission
Pollutant	د	ח	  ≥	Factors "E"
	e	(mph)	8)	(lb/ton)
PM	0.74			0.0081
PM <sub>10</sub>	0.35	20	3.0	0.0038
PM <sub>2.5</sub>	0.053			0.0006

Appendices

# Appendix A Equipment List

# Appendix A Equipment List

Equipment	Description	Control Device	Exempt From Permitting	Basis for Exemption
Load Out Silos	(5) 300 Ton Load Out Silos	None	No	N/A
Mixing Plant	(1) Counterflow Drum Mixer (Natural Gas / Fuel Oil #2 Fired Dryer)	89,217 cfm Baghouse with Knockout Box & Fabric Filter	No	N/A
Storage Tanks	(3) 35,000 Gallon Asphaltic Cement Storage Tank	None	No	N/A
Conveyors	(5) Asphalt Plant Conveyors, (4) Crushing Plant Conveyors	8-Open (Moisture Controlled) 1-Enclosed	No	N/A
Crusher	(1) 150 tph Portable Crusher	Moisture Content	No	N/A
Screens	(2) Asphalt Plant Screens, (1) Crushing Plant Screen	None	No	N/A
Storage Bins	(6) Aggregate Bins, (2) RAP Bins, (1) RAS Bin	None	No	N/A

# Appendix B Tanks 4.0.9d Reports

#### **TANKS 4.0.9d Emissions Report - Detail Format** Tank Indentification and Physical Characteristics

Identification
----------------

ntitication
User Identification:
City:
State:
Company:
Type of Tank;
Description: AC Storage Tanks Chicago Illinois MAT Asphalt Vertical Fixed Roof Tank 30,000 gal AC Tanks

Tank Dimensions
Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers:
Net Throughput(gallyr):
Is Tank Heated (y/n): 44.00 11.75 42.00 42.00 34,068.11 107.84 3,673,895.00

Paint Characteristics Shell Color/Shade; Shell Condition White/White Good White/White Good Roof Color/Shade: Roof Condition:

Roof Characteristics

Dome

Type: Height (ft) Radius (ft) (Dome Roof) 0.00 11.75

Breather Vent Settings Vacuum Settings (peig): Pressure Settings (psig) 0.00 0.**00** 

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

#### TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

			nily Liquid Si sperature (de		Liquid Bulk Tenso	Vano	r Pressure	(Osia)	Vapor Mot.	Liquid Mass	Vapor Mass	Mal.	Basis for Vapor Pressure
Morture/Component	Month	Avg.	Min	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract	Fract.	Weight	Calculations
Asphett Cement	AI	325.00	275 00	350.00	325.00	0.0183	0.0044	0.0347	105.0000			1,000.00	

#### TANKS 4.0.9d Emissions Report - Detail Format Detail Calculations (AP-42)

# AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

Annual Emission Calcaulations	
Standing Losses (Ib):	2,4890
Vapor Space Volume (cu ft).	304.2592
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor.	0.0977
Vented Vapor Saturation Factor:	0.9973
Tank Vepor Space Volume:	
Vapor Space Volume (cu ft):	304 2592
Tenk Diameter (fl):	11.7500
Vapor Space Outage (it):	2.8059
Tank Shell Height (ft):	44.0000
Average Liquid Height (R). Roof Outage (R):	42,0000 0.8059
Roof Outage (Come Roof)	
Roof Outage (ft):	0.8059
Dome Radius (fl)	11,7500
Shell Radius (II):	5.8750
Vapor Density	
Vepor Density (Ib/ou ft):	0.0002
Vapor Molecular Weight (Ib/Ib-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Delty Avg Liquid Surface Temp. (deg. R):	764.0700
Daily Average Ambient Temp. (deg. F):	40.0000
deal Gas Constant R	
(psia cult / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tenk Paint Solar Absorptance (Shell): Tenk Peint Solar Absorptance (Roof)	D.1700
Daily Total Solar Insulation	0.1700
Factor (Btuleqft day):	1,225.5876
Vapor Space Expansion Factor	
Vapor Space Expansion Factor	0.0977
Daily Vapor Temperature Range (deg. R)	75.0000
Daily Vapor Pressure Rence (min):	0.0303
Breather Vent Press Setting Range(psia):	0.0000
Vapor Pressure et Daily Average Liquid	
Surface Temperature (psis):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0044
Vepor Pressure et Deily Meximum Liquid	
Surface Temperature (pole): Daily Avg. Liquid Surface Temp. (deg R):	0.0347 784 6700
Daily Min. Liquid Surface Temp. (deg R):	734 6700
Daily Max. Liquid Surface Temp. (deg R):	809 6700
Duty Ambient Temp. Range (deg. R):	19.1000
Vented Vapor Saturation Factor	
Verted Vapor Saturation Factor:	0.0073
Vapor Pressure at Deity Average Liquid:	•
Surface Temperature (psia):	0.0163
Vapor Space Outage (ft)	2.6059
Working Losses (lb):	74.7719
Vapor Molecutar Weight (In/to-mole):	105.0000
Vapor Pressure at Delly Average Liquid	
Surface Temperature (psla):	D.0183
Annual Net Throughput (gel/yr.):	3,673,695,0000
Annual Tumpvers	107.8397
Turnover Factor, Maximum Liquid Volume (gal):	0.4449
Maximum Liquid Height (ft):	34,068.1147
mazenum ulquid masgre (rt): Tank Diameter (rt):	42.0000
Working Loss Product Factor:	11,7500 1,0000
	1:0000
Total Losses (Ib):	77.2400
• •	

#### TANKS 4.0.9d Emissions Report - Detail Format Individual Tank Emission Totals

Emissions Report for: Annual

AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

	Losses(lbs)							
Companents	Working Loss	Breathing Loss	Total Emissions					
Asphalt Cement	74.77	2.47	77,24					

#### **TANKS 4.0.9d Emissions Report - Detail Format** Tank Indentification and Physical Characteristics

AC Storage Tanks Chicago Illinois MAT Asphalt Vertical Fixed Roof Tank 30,000 gal AC Tanks User Identification: City: State: Company: Type of Tank: Description;

Tank Dimensions
Sheft Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers:
Net Throughput(gallyr):
Is Tank Heated (y/n): 44.00 11.75 42.00 42.00 34.068.11 424.57 14,464,413.02

Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition: White/White Good White/White Good

Roof Characteristics

Dome

Type: Height (ft) Radius (ft) (Dome Roof) 0.00 11.75

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) 0.00

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

#### TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

					Liquid						•			
			ally Uquid 8		Bulk				Vapor	Liquid	Vapor			
		Ten	operature (d	leg F)	Temp	Vap	or Pressure	(pale)	Mal.	Mass	Mass	MoL	Basis for Vapor Pressure	
Morture/Component	Month	Avg	Min.	Max.	(deg F)	Ava .	Min.	Max.	Weight.	Fract	Frect	Weight	Calculations	
Asphet Cement												e e agui	Cacolations	
Patricia Califolia	ΑI	325.00	275.00	350.00	325.00	0.0183	0.0044	0.0347	105.0000			1 000 00		

#### TANKS 4.0.9d Emissions Report - Detail Format Detail Calculations (AP-42)

#### AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

Annual Emission Celesulations	
Standing Losses (lb):	2,4690
Vapor Space Volume (cu ft):	2.4080 304.259Z
Vapor Denady (Ib/cu ft):	0.0002
Vapor Space Expansion Factor.	0.9002
Vented Vapor Saturation Factor	0 9973
Tank Vapor Space Volume:	
Vapor Space Volume:	304 2592
Tank Diameter (fl):	11,7500
Vapor Space Outage (ft):	2.8050
Tank Shell Height (ft):	44,9000
Average Liquid Height (ft):	42,0000
Roof Outage (it):	0 8069
Roof Outage (Dome Roof)	
Roof Outage (#):	0,6059
Dome Radius (ft):	11,7500
Shell Radius (f.):	5 8750
Vapor Density	
Vapor Density (Rotcu R):	0.0002
Vapor Molecular Weight (Ib/b-mole).	195.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psix)	0.0183
Oaity Avg. Liquid Surface Temp. (deg. R): Daily Average Ambient Temp. (deg. F):	754.6700
Ideal Gas Constant R	49.0000
(pale cult / (lb-(ro)-deg R)).	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.1700
Tank Paint Solar Absorptance (Roof):	0.1700
Daily Total Sciar Insulation	
Factor (Blufsqfl day):	1,225.5876
Vapor Space Expension Fector	
Vapor Space Expension Factor,	0.0977
Oally Vapor Temperature Range (deg. R):	75 0000
Only Vapor Pressure Range (pela):	0.0303
Breather Vent Press, Setting Range(psts); Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (pala).	0.0183
Vapor Pressure at Oaily Minimum Liquid	
Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid	0.0044
Surface Temperature (psis):	0.0347
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	/34.5700
Daily Max. Liquid Burlace Temp. (deg R):	609.6700
Daily Ambient Temp. Range (deg. R):	19.1000
Vented Vepor Saturation Factor	
Vented Vapor Saturation Factor:	0.9973
Vapor Pressure at Delty Average Liquid:	
Sorface Temperature (paix):	0.0183
Vapor Space Outage (ft):	2.8059
Working Losses (lb):	157.0498
Vapor Molecular Weight (Ib/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (pale):	0.0183
Annual Net Throughput (gallyr.); Annual Tumovers:	14,454,413.0242
Turnover Fector	424 5733 0,2373
Maximum Liquid Volume (gal):	34.068.1147
Maximum Liquid Height (ft):	42,0000
Tank Clarrete (ft)	11,7500
Working Loss Product Factor:	1.0000

159.5188

Total Losses (ib):

#### TANKS 4.0.9d Emissions Report - Detail Format Individual Tank Emission Totals

**Emissions Report for: Annual** 

AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

		Losses(ibs)									
Components	Working Loss	Breathing Loss	Total Emissions								
Asphalt Cement	157 05	2.47	159.52								

#### **TANKS 4.0.9d**

#### **Emissions Report - Detail Format** Tank Indentification and Physical Characteristics

Identification
User Identification:
City:
State: AC Storage Tanks Chicago Illinois MAT Asphalt Vertical Fixed Roof Tank 30,000 gai AC Tanks

Company: Type of Tank: Description:

Tank Dimensions

nk Dimensions
Shell Height (R):
Diameter (R):
Liquid Height (R):
Volume (gallons):
Turnovers:
Net Throughput(gallyr):
Is Tank Heated (y/n): 44,00 11,75 42,00 42,00 34,068,11 73,28 2,496,597,00

Paint Characteristics Shell Color/Shede: Shell Condition Roof Color/Shade: Roof Condition: White/White Good White/White Good

Roof Characteristics Type: Height (ft) Radius (ft) (Dome Roof) Dome

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) 0.00

Meterological Data used in Emissions Calculations: Chicago, Illinois (Avg Atmospheric Pressure = 14.38 psia)

0.00 11.75

#### TANKS 4.0.9d Emissions Report - Detail Format Liquid Contents of Storage Tank

AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

			sily Liquid S sperature (d		Liquid Bolk Temp	Yapo	or Pressure	(psia)	Vspor Mot	Liquid Mass	Vepor Mass	MoL	Basis for Vapor Pressure	
Mixture/Component	Month	Avg.	Min.	Max.	(dag F)	Avg	Mn.	Max.	Weight.	Fract.	Fract	Weight	Calculations	
Asphalt Cement	AI	325.00	275.00	350.00	325.00	0.0183	0 0644	0 0347	105 0000			1,000.00		

#### TANKS 4.0.9d Emissions Report - Detail Format Detail Calculations (AP-42)

#### AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

Annual Errission Calcaulations	
Standing Losses (Ib).	2.4890
Vaper Spess Volume (ou ft):	304.2592
Vapor Density (libicu ft):	0.0002
Vapor Space Expansion Factor	0.0977
Verited Vapor Saturation Factor:	0.9973
fank Vapor Space Volume:	
Vapor Space Volume (ou ft): Tenk Diameter (ft):	304.2582
Vapor Space Outage (ft):	11.7600 2.8059
Tank Shell Height (ft):	44.0000
Average Liquid Height (ft):	42.0000
Roof Outage (ft):	0.6059
Roof Outage (Dome Roof)	
Roof Outage (ft):	D.8059
Dome Radius (ft):	11.7500
Shell Radius (R):	5.8750
apor Density	
Vapor Density (lib/tu 8):	0.0002
Vapor Molecular Weight (fb/fb-mole): Vapor Pressure at Daily Average Liquid	105.0000
Surface Temperature (psix):	0.0183
Daily Avg. Liquid Surface Temp. (deq. R):	784.6700
Daily Average Amorent Lemp (deg. F):	49 0000
Ideal Gas Constant R	17 0202
(psis cut / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.1700
Tank Paint Solar Absorptance (Roof):	0.1700
Derly Total Solar Insulation	
Factor (Btu/sqft day):	1,225.5876
por Space Expension Factor	
Vapor Space Expension Factor.	0.0977
Daily Vapor Temperature Range (deg. R):	75.0000
Daily Vapor Pressure Range (psis):	0.0303
Bresther Vent Press: Setting Range(pais): Vapor Pressure at Dafy Average Liquid	0.0000
Surface Temperature (psia):	0.0183
Vepor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0044
Vapor Pressure at Daily Maximum Liquid	0.0014
Burtage Terropreture (psin):	0.0347
Daily Avg. Liquid Surface Temp. (deg R).	784.6700
Daily Avg. Liquid Surface Temp. (deg R). Daily Min. Uquid Surface Temp. (deg R).	734,6700
Darly Max. Liquid Surface Temp. (deg R):	809.6700
Daily Ambient Temp. Range (deg. R):	19.1000
anted Vapor Saturation Factor	
Vented Vepor Saturation Factor:	0.9973
Vapor Pressure et Duity Average Liquid:	
Surface Temperature (pale): Vapor Space Outage (R):	0.0183 2.8059
brking Losses (lb):	65,7950
Yapor Molecular Weight (Ib/lb-mole):	105,0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (pale):	0.0183
Annual Net Throughput (gallyr )	2,499,597 0000
Annual Turnovers:	73 2825
Turnover Factor:	0.5760
Maximum Liquid Volume (gai):	34,088,1147
Maximum Liquid Height (ft).	42.0000
Tank Diameter (ft):	11.7500
Working Loss Product Factor:	1.0000
otal Losses (fb):	68.2641

#### TANKS 4.0.9d Emissions Report - Detail Format Individual Tank Emission Totals

**Emissions Report for: Annual** 

AC Storage Tanks - Vertical Fixed Roof Tank Chicago, Illinois

	Losses(ibs)								
Components	Warking Loss	Breathing Loss	Total Emissions						
Asphalt Cement	65.80	2.47	58.26						