



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: May 26, 2011

RE: Henry Company / 097-30065-00208

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-AM.dot12/3/07



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John K. Kinast
Henry Company
4351 West Morris Street,
Indianapolis, IN 46241

May 26, 2011

Re: F097-30065-00208
First Administrative Amendment to
F097-22588-00208

Dear Mr. Kinast:

Henry Company was issued a Federally Enforceable State Operating Permit (FESOP) No. F097-22588-00208 on June 25, 2009 for a stationary batch mix protective coating manufacturer, located at 4351 West Morris Street, Indianapolis, IN 46241. On December 28, 2010, the Office of Air Quality (OAQ) received an application from the source requesting to a revision to the existing emission unit descriptions and an addition of limestone storage silo, which was inadvertently left out from the existing permit No. F097-22588-00208. Also, enclosed storage tanks to store final product are added as insignificant units during this review. There are no emissions from these storage tanks. This addition of limestone storage silo and the storage tanks to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(14), and will not cause the source's potential to emit to be greater than the threshold levels specified in 326 IAC 2-2 or 326 IAC 2-3 (see Appendix A Page 11 for the PTE calculations for the limestone storage silo). The descriptive change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(6), since it is a revision to descriptive information where the revision will not trigger a new applicable requirement or violate a permit term. In addition the source also requested to remove five (5) Clay Emulsion Make-up Tanks. See Appendix A for the PTE of the new emission unit and the entire source.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of FESOP (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
ACB Blenders and Mixer 12 (ACB Stack)	47.57	1.00	1.00	negl.	negl.	81.96	negl.	3.87	2.15 Xylene
AEP Emulsion Tanks (AEP-1 Stack)-Air Chafeco bin vent dust collector	16.89	0.50	0.50	negl.	negl.	negl.	negl.	negl.	negl.
*****Clay Emulsion Makeup Tanks (AEP Stack)	52.03	1.00	1.00	negl.	negl.	negl.	negl.	negl.	negl.
***AEP Slurry Tanks - Flexicon feeders (AEP-1 Stack)	18.32	2.00	2.00	negl.	negl.	negl.	negl.	negl.	negl.
***AEP Slurry Tanks - (AEP-2 stack)	19.60	2.00	2.00	negl.	negl.	negl.	negl.	negl.	negl.
****Whippany Tanks Mixers 7 and 8 and hoppers 7, 8, 9 (Whippany Tank Area)	57.72	1.00	1.00	negl.	negl.	negl.	negl.	negl.	negl.
****Whippany -Mixer 9 and ribbon blender 10	15.02	1.00	1.00	negl.	negl.	negl.	negl.	negl.	negl.
Silica Sand Operations (Whirl-Air Bin dust collector)	25.60	0.50	0.50	negl.	negl.	negl.	negl.	negl.	negl.
*****Limestone storage Silo	0.48	0.48	0.48	negl.	negl.	negl.	negl.	negl.	negl.
Combustion	0.06	0.25	0.25	0.92	1.90	0.18	2.72	0.06	0.06 Hexane
Roads**	1.71	0.33	0.05	negl.	negl.	negl.	negl.	negl.	negl.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of FESOP (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs	Worst Single HAP
Total PTE of Entire Source	219.48 202.97	6.25 9.06	6.25 8.78	0.92	1.90	82.14	2.72	3.93	2.15 Xylene
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	NA	250	250	250	250	NA	NA
Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA

negl. = negligible

* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

**Roads are considered fugitive emission sources, therefore potentials to emit are not counted toward the determination of PSD, Emission Offset, or Part 70 Permit applicability. of PSD, Emission Offset, or Part 70 Permit applicability.

*** The Slurry Tanks are fed by Flexicon feeders and are controlled by Torit dust collector (AEP-1) and mixers are controlled by scrubber (AEP-2).

****Whippany area Mixers 7,8 and hoppers 7,8 and 9 are controlled by Torit dust collector, and Mixer 9 and ribbon blender 10 is controlled by bin vent dust collector.

*****Lime storage silo was inadvertently left out from the permit No.: 097-22588-00208 issued on June 25, 2009, is added during this revision.

*****Five (5) Clay Emulsion Make-up Tanks are removed during this revision, therefore emissions are removed from this activity.

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted)

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of FESOP (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs	Worst Single HAP
ACB Blenders and Mixer 12 (ACB Stack)	47.57	1.00	1.00	negl.	negl.	81.96	negl.	3.87	2.15 Xylene
AEP Emulsion Tanks Air Chafeco bin vent	16.89	0.50	0.50	negl.	negl.	negl.	negl.	negl.	negl.
***AEP Slurry Tanks - Flexicon feeders (AEP-1 Stack)	18.32	2.00	2.00	negl.	negl.	negl.	negl.	negl.	negl.
***AEP Slurry Tanks -Mixers (AEP-2 stack)	19.60	2.00	2.00	negl.	negl.	negl.	negl.	negl.	negl.
****Whippany area Mixers 7 and 8 and hoppers 7, 8, 9 (Whippany Area)	57.72	1.00	1.00	negl.	negl.	negl.	negl.	negl.	negl.
****Whippany area-Mixer 9 and ribbon blender 10 -bin vent	15.02	1.00	1.00	negl.	negl.	negl.	negl.	negl.	negl.
Silica Sand Operations (Whirl-Air Bin dust collector)	25.60	0.50	0.50	negl.	negl.	negl.	negl.	negl.	negl.
****Limestone storage Silo	0.48	0.48	0.48	negl.	negl.	negl.	negl.	negl.	negl.
Combustion	0.06	0.25	0.25	0.92	1.90	0.18	2.72	0.06	0.06 Hexane
**Roads	1.71	0.33	0.05	negl.	negl.	negl.	negl.	negl.	negl.
Total PTE of Entire Source	202.97	9.06	8.78	0.92	1.90	82.14	2.72	3.93	2.15 Xylene
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	NA	250	250	250	250	NA	NA
Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA

negl. = negligible
 * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
 **Roads are considered fugitive emission sources, therefore potentials to emit are not counted toward the determination of PSD, Emission Offset, or Part 70 Permit applicability.
 *** The Slurry Tanks are fed by Flexicon feeders and are controlled by Torit dust collector (AEP-1) and mixers are controlled by scrubber (AEP-2).
 ****Whippany area Mixers 7,8 and hoppers 7,8 and 9 are controlled by Torit dust collector, and Mixer 9 and ribbon blender 10 is controlled by bin vent dust collector.
 *****Lime storage silo was inadvertently left out from the permit No.: 097-22588-00208 issued on June 25, 2009, is added during this revision.

- In addition, IDEM OAQ is providing clarification regarding the non-applicability of 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and applicability of 326 IAC 6.5-1- 2 (Particulate Matter Limitations except Lake County) as defined by 326 IAC 6.5-1-2(a).

This batch mix protective coating manufacturing plant is located in Marion County and has actual emissions greater than 10 tons per year. Marion County is one of the counties listed under 326 IAC 6.5-1-1, therefore 326 IAC 6-3 does not apply. Under 326 IAC 6.5-1-2(a), this plant is limited to particulate matter emissions of no greater than 0.03 grains/dscf.

The following emission units listed in the table are subject to PM emission limitations of no greater than 0.03 grains/dscf as specified in 326 IAC 6.5-1-2(a) because they have been constructed at a source which is located in Marion County, not specifically listed in 326 IAC 6.5-6.

Stack / Control Device ID	Process Description
ACB / WWSly dust collector	Asphalt Cutback Blenders and Mixer 12
Air Chafeco bin vent dust collector-exhaust inside	Asphalt Emulsion Plant (AEP) Tanks
AEP-1 / Torit Dust collector	Asphalt Emulsion Plant Slurry (AEP) -Flexicon feeders
AEP-2/ Wet Scrubber	Asphalt Emulsion Plant Slurry (AEP) - Mixers
Whippany /Torit dust collector	Whippany hoppers 7, 8 & 9 , Mixer 7 and 8
Bin Vent Filter-exhaust inside	Whippany Mixer 9, ribbon blender hopper 10 and mixer 10
Whirl-Air Bin dust collector	Silica Sand Process
Air bin vent	Limestone Silo

2. The emission unit description in Section A.2 has been updated and related D.1 conditions are revised to include the emission unit descriptions and the modifications.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) ~~Six (6)~~ **Five (5)** Asphalt Cutback (ACB) Blenders, identified as Blender 1 through Blender ~~6~~ **5**, constructed in 1983 through 1984, each with a maximum capacity of 1,800 gallons, and having a combined maximum throughput of ~~24,600~~ **10,800 lbs/hr per batch**; using a **WWSly** dust collector as particulate control for **Blenders 1 through 5**, and exhausting to ACB Stack.

NOTE: There is no increase in emissions due to the increase in process throughput because, emissions from blenders and mixer are calculated based on the outlet grain loading and the fan flow rate of the control device. This is a batch process and each batch lasts for two hours.

- (b) **One (1) mixer identified as Mixer 12, constructed in 2003, maximum capacity of 3,800 gallons or 31,600 pounds/hr; using a WWSly dust collector as particulate control and exhausting to ACB stack.**

NOTE: This unit uses the same control device as units in (a), therefore there are no additional emissions from this unit.

- (b c) ~~Four (4)~~ **Three (3) enclosed** Asphalt Emulsion Plant (AEP) Tanks, identified as Emulsion Tank ~~24 through Emulsion Tank 4~~ **25, and ribbon Tank 33 equipped with feed hopper and mixers**, each constructed in 1983, each with a maximum capacity of 6,000 gallons, and having a combined maximum throughput of 48,000 lbs/hr; using an ~~Torit bin Air Chafeco bin vent dust collector~~ for particulate control, and exhausting to ~~stack AEP-1 inside~~.

- (c) ~~Five (5) Clay Emulsion Makeup Tanks, identified as Makeup Tank 1 through Makeup Tank 5, with Makeup Tank 1 through Makeup Tank 4 being constructed in 1984, each having a maximum capacity of 4,100 gallons, and Makeup Tank 5 being constructed in 2003, having a maximum capacity of 8,586 gallons; Makeup Tanks 1 through 5 have a combined maximum throughput of 50,000 lbs/hr, use a Sly dust collector as particulate control, and exhaust to stack AEP.~~

NOTE: There is a reduction in PTE of 52.03 tons/yr, due to the removal of Clay Emulsion Makeup Tanks. Please see TSD Appendix A.

- (d) ~~Three (3) enclosed AEP Slurry Tanks, identified as Slurry Tanks 4 46, 47 and 48 through Slurry Tank 3, with Slurry Tanks 1 and Slurry Tank 2 being each tank fed by Flexicon feeder, constructed in 1983, and Slurry Tank 3 being 48 constructed in 2002, each Slurry Tank has a maximum capacity of 6,000 gallons; with a combined maximum throughput of 36,000 lbs/hr; using a Torit dust collector for particulate control from Flexicon feeder,~~

exhausting through AEP-1, and wet scrubber as particulate control for tank mixers, and exhausting to stack AEP-2.

NOTE: The three enclosed Tanks 46 through 48 receive powders via an enclosed flexicon feed system or via bags directly into the mixer hopper and exhaust through torit dust collector through stack AEP-1 outside. Tank #48 is not being used.

- (e) **Three (3) enclosed Mixers and one (1) ribbon blender, equipped with feed hoppers in the Five (5) Whippany Tanks, identified as Whippany Tank 1 through Whippany Tank 5 area, three (3) Whippany Mixers identified as 7 through 9, and one ribbon blender identified as hopper 10 and mixer 10, constructed in 1995 through 1997, each with a maximum capacity of 4,000 gallon for each Mixer, and 1,400 gallon for ribbon blender, Tanks, and having a combined maximum throughput of 40,000 lbs/hr; using a torit dust collector as particulate control for hoppers 7 through 9, and exhausting to stack Whippany and Mixers 7 and 8, exhausting outside through stack Whippany, Mixer 9, ribbon blender hopper 10 and mixer 10, vent to bin vent filter exhausting inside the building.**

NOTE: The Flexicon conveyer feeds Mixers 7 and 8 and is also controlled by Torit dust collector, in addition to the feed hoppers for mixers 7, 8 and 9. There are additional emissions from Mixer 9, ribbon blender hopper 10 and mixer 10 because they exhaust to bin vent filter. Please see TSD Appendix A.

- (f) One (1) silica sand process, performing silica sand transfer operations and silica sand batch operations, consisting of:
- 1) One (1) silica sand silo, identified as Silo 1, constructed in 2006, with a maximum annual throughput of 5.5 million tons per year, with particulate emissions controlled by a Whirl-Air Bin vent dust collector.
- (g) **One (1) enclosed limestone storage silo identified as silo 2, constructed in 1983, with a maximum throughput of 5.5 tons per year, equipped with an air bin vent to control particulates, and exhausting inside.**

Insignificant Activities:

- ...
- (b) **Fifteen (15) Storage Tanks, identified as tanks 60 through 72 and tank 12, located outside, used to store Water, Wax, Asphalt, Cutback and Mineral spirits:**
- ~~(1) One (1) Fuel Oil Storage Tank, identified as FO Tank 1, constructed in 1991, with a maximum capacity of 20,000 gallons, utilizing no control device.~~
 - (21) **Twelve (12) Tanks, identified as Tank 60, 61, 63, and 65 through 73, each constructed in 1983, each with a maximum capacity of 20,000 gallons, utilizing no control devices.**
 - (32) **One (1) Mineral Spirit Storage Tank, identified as Mineral Spirit Storage Tank 64, constructed in 1991, with a maximum capacity of 16,000 gallons, utilizing no control devices.**
 - ~~(4) Four (4) Asphalt Storage Tanks, identified as AS Tank 1 through AS Tank 4, constructed in 1983, each having a maximum capacity of 20,000 gallons, utilizing no control devices.~~
 - (53) **One (1) Asphalt Storage tank, identified as ASTank 512, constructed in 1983, with a maximum capacity of 8,000 gallons, utilizing no control device.**

(64) One (1) Asphalt Storage Tank, identified as ASTank 6 62, constructed in 1989, with a maximum capacity of 13,000 gallons, utilizing no control device.

~~(7) Two (2) Wax Storage Tanks, identified as WS Tank 1 and WS Tank 2, each constructed in 1983, each with a maximum storage capacity of 20,000 gallons, utilizing no control device.~~

NOTE: There is no change in the total number of existing tanks and their capacity. The tanks have been renumbered for source clarity.

(c) Four (4) enclosed caulking cement storage Tanks, identified as Tank 14, through Tank 17, constructed in 2002 through 2007, with a capacity of 2165, 2000, 2000, and 1000 gallons respectively, and exhausting inside the building.

NOTE: There are negligible emissions from these tanks.

(d) Two (2) enclosed finished good storage Tanks, identified as Tank 31 through Tank 32, constructed in 2002, each tank has a maximum capacity of 20,000 gallons, and exhausting inside the building.

NOTE: There are negligible emissions from these tanks.

(e) Four (4) enclosed Intermediate Asphalt emulsion or wax storage Tanks, identified as Tanks 26, 27, 28 and 29, constructed in 1983, with a maximum capacity of 6000, 6000, 11879, 1641 gallons respectively, and exhausting inside the building.

NOTE: There are negligible emissions from these tanks.

(f) Two (2) enclosed tanks 11 and 23 are not in operation.

3. During this revision period, the source requested that IDEM re-review the need for the initial test requirements. IDEM has reviewed the controlled potential emissions from slurry tanks and AEP tanks and determined that since the source is minor for PSD, and unit are small, the test condition D.1.5 is removed from the permit.

~~D.1.5 Testing Requirements [326 IAC 2-1.1-11]~~

~~PM10 and PM2.5 testing for the baghouses or dust collectors controlling stacks AEP, ACB, AEP-1, and the wet scrubber controlling stack AEP-2, Whippany, within one hundred eighty (180) days of publication of the new or revised condensible PM test method(s) referenced in the U.S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM2.5), signed on May 8th, 2008 or 180 days, whichever is later. This testing shall be conducted utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing. PM10 and PM2.5 includes filterable and condensable PM.~~

Rule applicability Limestone storage Silo:

326 IAC 6.5-1-2 (Particulate Matter Limitations except Lake County)

Pursuant to 326 IAC 6-5.1-2, particulate matter (PM) emission from limestone silo shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three hundredths (0.03) grain per dry standard cubic foot (dscf)).

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) ~~Six (6)~~ **Five (5)** Asphalt Cutback (ACB) Blenders, identified as Blender 1 through Blender 6 5, constructed in 1983 through 1984, each with a maximum capacity of 1,800 gallons, and having a combined maximum throughput of 21,600 **27,000** lbs/hr; using a ~~WWSly~~ dust collector as particulate control for **Blenders 1 through 5**, and exhausting to ACB Stack.
- (b) **One (1) mixer identified as mixer 12, constructed in 2003, maximum capacity of 3,800 gallons or 31,600 pounds/hr; using a WWSly dust collector as particulate control and exhausting to ACB stack.**
- (b c) ~~Four (4)~~ **Three (3) enclosed** Asphalt Emulsion Plant (AEP) Tanks, identified as Emulsion Tank-24 through Emulsion Tank-4 **25, and ribbon Tank-33 equipped with feed hopper and mixers**, each constructed in 1983, each with a maximum capacity of 6,000 gallons, and having a combined maximum throughput of 48,000 lbs/hr; using a ~~Torit bin Air Chafeco bin vent~~ dust collector for particulate control, and exhausting to stack ~~AEP-1 inside~~.
- (e) ~~Five (5) Clay Emulsion Makeup Tanks, identified as Makeup Tank 1 through Makeup Tank 5, with Makeup Tank 1 through Makeup Tank 4 being constructed in 1984, each having a maximum capacity of 4,100 gallons, and Makeup Tank 5 being constructed in 2003, having a maximum capacity of 8,586 gallons; Makeup Tanks 1 through 5 have a combined maximum throughput of 50,000 lbs/hr, use a Sly dust collector as particulate control, and exhaust to stack AEP.~~
- (d) **Three (3) enclosed AEP Slurry Tanks, identified as Slurry Tanks 4 46, 47 and 48 through Slurry Tank 3, with Slurry Tanks 1 and Slurry Tank 2 being each tank fed by Flexicon feeder, constructed in 1983, and Slurry Tank 3 being 48 constructed in 2002, each Slurry Tank has a maximum capacity of 6,000 gallons; with a combined maximum throughput of 36,000 lbs/hr; using a Torit dust collector for particulate control from Flexicon feeder, exhausting through AEP-1, and wet scrubber as particulate control for tank mixers, and exhausting to stack AEP-2.**
- (e) **Three (3) enclosed Mixers and one (1) ribbon blender, equipped with feed hoppers in the Five (5) Whippany Tanks, identified as Whippany Tank 1 through Whippany Tank 5 area, three (3) Whippany Mixers identified as 7 through 9, and one ribbon blender identified as hopper 10 and mixer 10, constructed in 1995 through 1997, each with a maximum capacity of 4,000 gallon for each Mixer, and 1,400 gallon for ribbon blender, Tanks, and having a combined maximum throughput of 40,000 lbs/hr; using a torit dust collector as particulate control for hoppers 7 through 9, and exhausting to stack Whippany and Mixers 7 and 8, exhausting outside through stack Whippany, Mixer 9, ribbon blender hopper 10, and mixer 10, vent to bin vent filter exhausting inside the building.**
- (f) **One (1) silica sand process, performing silica sand transfer operations and silica sand batch operations, consisting of:**
 - 1) **One (1) silica sand silo, identified as Silo 1, constructed in 2006, with a maximum annual throughput of 5.5 million tons per year, with particulate emissions controlled by a Whirl-Air Bin vent dust collector.**

(g) **One (1) enclosed limestone storage silo identified as silo 2, constructed in 1983, with a maximum throughput of 5.5 tons per year, equipped with an air bin vent to control particulates, and exhausting inside.**

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 FESOP Limitations [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4 (FESOP), PM10 and PM2.5 emissions from the following **stack/control units** shall not exceed the emission limits listed in the table below:

Stack / Control Device ID	Unit Description	PM10 Emission Limit (lbs/hr)	PM2.5 Emission Limit (lbs/hr)
ACB / WWSly dust collector	Asphalt Cutback Blenders and Mixer 12	0.23	0.23
AEP-1 Air Chafeco bin vent dust collector	Asphalt Emulsion Plant (AEP) Tanks	0.11	0.11
AEP	Clay Emulsion Makeup Tanks	0.23	0.23
AEP-1 / Torit dust collector	Asphalt Emulsion Plant Slurry (AEP) - Flexicon feeders	0.46	0.46
AEP-2 / Wet Scrubber	Asphalt Emulsion Plant Slurry (AEP) Tank Mixers	0.46	0.46
Whippany / Torit dust collector	Whippany Tanks-hoppers 7, 8 & 9, Mixer 7 and 8	0.23	0.23
Bin vent Filter	Whippany Mixer 9, ribbon blender hopper 10 and mixer 10	0.23	0.23
Whirl-Air Bin dust collector	Silica Sand Process	0.11	0.11
Air bin vent	Limestone Storage Silo	0.11	0.11

Compliance with these PM10 and PM2.5 limits in conjunction with the limited PM10 and PM2.5 PTE from the other emissions units shall limit the PM10 and PM2.5 emissions from the entire source to less than 100 tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable.

D.1.2 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

Stack / Control Device ID	Process Description	Max. Throughput Rate (tons/hr)	Particulate Emission Limit (lbs/hr)
ACB	Asphalt Cutback Blenders	10.80	20.19
AEP-1	Asphalt Emulsion Plant Tanks	24.00	34.48
AEP	Clay Emulsion Makeup Tanks	25.00	35.43
AEP-2	Asphalt Emulsion Plant Slurry Tanks	18.00	28.43
Whippany	Whippany Tanks	20.00	30.51
Whirl-Air Bin dust collector	Silica Sand Process	20.00	30.51

The pounds per hour limitations were calculated using the following equations:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
 P = process weight rate in tons per hour

D.1.2 Particulate Matter Limitations except Lake County [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6-5.1-2, particulate matter (PM) emission from each unit listed in the table below shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three hundredths (0.03) grain per dry standard cubic foot (dscf)).

Stack / Control Device ID	Unit Description
ACB/ WWSly dust collector	Asphalt Cutback Blenders and Mixer 12
Air Chafeco bin vent dust collector	Asphalt Emulsion Plant (AEP) Tanks
AEP-1 / Torit dust collector	Asphalt Emulsion Plant Slurry (AEP) -Flexicon feeders
AEP-2/ Wet Scrubber	Asphalt Emulsion Plant Slurry (AEP) -Mixers
Whippany /Torit dust collector	Whippany hoppers 7, 8 & 9 , Mixer 7 and 8
Bin Vent Filter	Whippany Mixer #9 and ribbon blender hopper 10 and mixer 10
Whirl-Air Bin dust collector	Silica Sand Process
Air bin vent	Limestone Storage Silo

NOTE: The Particulate Matter Limitations except Lake County [326 IAC 6.5-1-2] is more stringent than the Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2], therefore the 326 IAC 6-3-2 does not apply. The permit condition D.1.2 is replaced with the above rule applicability.

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and the control devices. **Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.**

Compliance Determination Requirements

D.1.4 Particulate Control

- (a) In order to comply with Conditions D.1.1 and D.1.2, the baghouses, dust collectors and bin vents for particulate control shall be in operation and control emissions from the emission units at all times that the emission units are in operation as listed in the table below, when these units are in operation:

Unit Description	Baghouse ID
Asphalt Cutback Blenders	ACB
Asphalt Emulsion Plant Tanks	inside
Clay Emulsion Makeup Tanks	AEP
Whippany Tanks	Whippany
Silica Sand Process	Whirl-Air-Bin dust collector

Stack / Control Device ID	Unit Description
ACB/ WWSly dust collector	Asphalt Cutback Blenders and Mixer 12
Air Chafeco bin vent dust collector	Asphalt Emulsion Plant (AEP) Tanks
AEP-1 / Torit dust collector	Asphalt Emulsion Plant Slurry (AEP) -Flexicon feeders
AEP-2/ Wet Scrubber	Asphalt Emulsion Plant Slurry (AEP) -Mixers
Whippany /Torit dust collector	Whippany hoppers 7, 8 & 9 , Mixer 7 and 8
Bin Vent Filter	Whippany Mixer #9 and ribbon blender hopper 10 and mixer 10
Whirl-Air Bin dust collector	Silica Sand Process
Air bin vent	Limestone Storage Silo

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
- (c) In order to comply with Conditions D.1.1 and D.1.2, the wet scrubber AEP-2, **and torit dust collector AEP-1** for particulate control shall be in operation and control emissions from the asphalt emulsion plant (AEP) slurry tanks, when these units are in operation.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

D.1.65 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts (stacks AEP, ACB, AEP-1, AEP-2, **stack Whippany- Torit dust collector**, and bin vent (whirl-Air Bin dust collector) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal. ...
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ **contains the Permittee's obligation with regard to the reasonable response steps required by this condition.** Failure to take response steps ~~in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

D.1.76 Baghouse Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses or dust collector (AEP, ACB, AEP-1, and **stack Whippany**), at least once per day when these units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. ~~steps in accordance with Section C - Response to Excursions or Exceedances.~~ **contains the Permittee's obligation with regard to the reasonable steps required by this condition.** A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated **or replaced** at least once every six (6) months.

D.1.98 Scrubber Parametric Monitoring

- (a) The Permittee shall monitor and record the flow rate of scrubber AEP-2 at least once per day

when the associated processes are in operation. When for any one reading, the flow rate of the scrubber is less than 0.40 gallons per minute; the Permittee shall take reasonable response. ~~steps in accordance with Section C - Response to Excursions or Exceedances.~~ **contains the Permittee's obligation with regard to the reasonable steps required by this condition.** A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

- (b) The Permittee shall monitor and record the pressure drop across the scrubbers AEP-2 at least once per day when the associated processes are in operation. When for any one reading, the pressure drop across a scrubber is outside the normal range of 0.5 and 6.0 inches of water, or a minimum established during the most recent stack test, the Permittee shall take reasonable response. ~~steps in accordance with Section C - Response to Excursions or Exceedances.~~ **contains the Permittee's obligation with regard to the reasonable steps required by this condition.** A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit

The instruments used for determining the flow rate and pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

D.1.409 Scrubber Detection

In the event that a scrubber malfunction has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ shall be considered a deviation from this permit.

D.1.4410 Record Keeping Requirement

- (a) To document **the compliance status** with Condition D.1.65, the Permittee shall maintain records of once per day visible emission notations of the baghouse stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document **the compliance status** with Condition D.1.76, the Permittee shall maintain once per day records of the pressure drop across the baghouses. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of the pressure drop reading (e.g. the process did not operate that day).
- (c) To document **the compliance status** with Condition D.1.98, the Permittee shall maintain once per day records of the flow rate and pressure drop for scrubber AEP-2 during normal operation. The Permittee shall include in its daily record when a flow rate reading or pressure drop reading is not taken and the reason for the lack of flow rate reading or pressure drop reading (e.g. the process did not operate that day).
- (d) ~~All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit~~ **contains the Permittee's obligations with regard to the records required by this condition.**

Additional Changes

IDEM, OAQ has decided to make additional revisions to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

1. Section A.1 of the permit and the reporting forms have been revised to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address.
2. For clarity, IDEM has changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language to "Section C...contains the Permittee's obligations with regard to the records required by this condition."
3. IDEM has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timelines have been switched to "no later than" or "not later than" except when the underlying rule states "within."
4. IDEM has decided to clarify throughout the permit that a certification needs to meet the requirements of 326 IAC 2-8-5(a)(1). In addition, IDEM has decided to remove the last sentence dealing with the need for certification from the forms because the conditions requiring the forms already addresses this issue.
5. IDEM has decided to clarify the certification requirements in Section B - Duty to Provide Information and Section B - Certification.
6. IDEM has decided to clarify the requirements of Section B – Preventive Maintenance Plan and to add a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans.
7. IDEM has revised the language of the Section B - Preventive Maintenance Plan, Section C - Compliance Monitoring, Section C - General Record Keeping, and Section C - General Reporting to allow the Permittee to not have to begin implementing the requirements of these conditions until ninety days after initial start up.
8. IDEM has revised Section B - Emergency Provisions to delete paragraph (h). 326 IAC 2-8-4(3)(C)(ii) allows that deviations reported under an independent requirement do not have to be included in the Quarterly Deviation and Compliance Monitoring Report.
9. IDEM has decided that having a separate condition for the reporting of deviations is unnecessary. Therefore, IDEM has removed Section B - Deviations from Permit Requirements and Conditions and added the requirements of that condition to Section C - General Reporting Requirements. Paragraph (d) of Section C - General Reporting Requirements has been removed because IDEM already states the timeline and certification needs of each report in the condition requiring the report.
10. IDEM has revised Section B - Permit Renewal paragraph (c) to state which rule establishes the authority to set a deadline for the Permittee to submit additional information.
11. IDEM has decided to reference 326 IAC 2 in Section B - Source Modification Requirements, rather than specific construction rule.
12. IDEM has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.

13. IDEM has revised the language of the Section C - Asbestos Abatement Projects to change the terminology "Accredited" to "Licensed" in order to match the rule. In addition IDEM has revised the language of the Section C - Asbestos Abatement Projects to remove the statement that the requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable, since all conditions and requirements in a FESOP are federally enforceable.
14. IDEM has removed the first paragraph of Section C - Performance Testing as due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures.
15. IDEM has revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed due to the fact that other conditions already address recordkeeping. The voice of the condition has been change to clearly indicate that it is the Permittee that must follow the requirements of the condition
16. IDEM has removed Section C - Monitoring Methods. The conditions that require the monitoring or testing, if required, state what methods shall be used.
17. IDEM has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the previously listed items are required to be recorded elsewhere in the permit.
18. IDEM has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was switched from "the receipt of the test results" to "the date of the test." There was confusion if the "receipt" was by IDEM, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.
19. The voice of paragraph (b) of Section C - General Record Keeping Requirements has been changed to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.
20. IDEM has decided to simplify the referencing in Section C - Compliance with 40 CFR 82 and 326 IAC 22-1.
21. IDEM has decided to clarify Section D - Testing Requirements.
22. IDEM has included the replacement of an instrument as an acceptable action in Section D - Parametric Monitoring.
23. The word "status" has been added to Section D - Record Keeping Requirements and Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.
24. The phrase "of this permit" has been added to the paragraph of the Quarterly Deviation and

Compliance Monitoring Report Form to match the underlying rule.

The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

SECTION A SOURCE SUMMARY

A.1 General Information [326 IAC 2-8-3(b)]

...
Mailing Address: ~~4351 West Morris Street, Indianapolis, IN 46244~~

B.9 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. ~~The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~ Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

B.10 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) ~~Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that,~~ **A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:**
- (1) **it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and**
 - (2) **the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.**
- (b) ~~One (1) certification shall be included, using~~ **The Permittee may use** the attached Certification Form, **or its equivalent** with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (c) The annual compliance certification report shall include the following:

...
The submittal by the Permittee does require ~~the~~ **a certification that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) ~~within~~ **no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later,** including the following information on each facility:

...
The PMP extension notification does not require ~~the certification~~ **a certification that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs and their submittal do not require the certification a **certification that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

...
B.14 Emergency Provisions [326 IAC 2-8-12]

- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

...
The notification which shall be submitted by the Permittee does not require the a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (h) ~~The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

...
B.17 ~~Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]~~

- (a) ~~Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:~~

~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
400 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251~~

~~using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.~~

~~The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

- (b) ~~A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.~~

...
B.1748 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification a **certification that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

...
B.1849 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require ~~the a~~ certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.1920 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

Any such application shall ~~be certified~~ **does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.2024 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

B.2122 Source Modification Requirement [326 IAC 2-8-11.1]

B.2223 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

B.2322 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

~~The~~ **Any such** application which shall be submitted by the Permittee does require the a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.2425 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-8-4(6)][326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ ~~withi~~ **no later than** thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

B.2526 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314][326 IAC 1-1-6]

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

C.5 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and ~~326 IAC 9-1-2~~ or in this permit. **The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.**

...
C.8 **Asbestos Abatement Projects** [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]

...
(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

...
The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

...
C.9 **Performance Testing** [326 IAC 3-6]

(a) ~~Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.~~

AFor performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of **326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of **326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

...
C.11 **Compliance Monitoring** [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, **for all monitoring and record-keeping requirements not already legally required, the Permittee shall be allowed up to** ~~shall be implemented within ninety (90) days of from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring.~~ **If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.** ~~If due to circumstances beyond the Permittee's control, that any monitoring equipment required by this permit cannot be installed and operated within~~ **no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:**

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003

Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require ~~the~~ a certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a ~~source modification~~ **permit revision** shall be implemented when operation begins.

~~C.12~~ ~~Monitoring Methods~~ [326 IAC 3] [40 CFR 60] [40 CFR 63]

~~Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.~~

~~C.1243~~ Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

...
~~C.1344~~ Risk Management Plan [326 IAC 2-8-4][40 CFR 68]

...
~~C.1445~~ Response to Excursions or Exceedances [326 IAC 2-8-4][326 IAC 2-8-5]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) ~~Upon detecting an excursion or exceedance, the~~ **The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.**
- (b) ~~The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions.~~ **The response may include, but are is not limited to, the following:**
- (1) ~~initial inspection and evaluation;~~
 - (2) ~~recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or~~
 - (3) ~~any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable~~ **normal or usual manner of operation.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; **and/or**

- (3) inspection of the control device, associated capture system, and the process.
- ...
- (e) The Permittee shall ~~record~~ maintain the following records **the reasonable response steps taken**:
- (1) ~~monitoring data~~;
- (2) ~~monitor performance data, if applicable; and~~
- (3) ~~corrective actions taken.~~

C.1546 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall ~~take appropriate response actions. The Permittee shall submit a description of these~~ response actions to IDEM, OAQ, ~~within no later than thirty (30) days of receipt of the test results~~ **seventy-five (75) days after the date of the test.** ~~The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.~~
- (b) A retest to demonstrate compliance shall be performed ~~within no later than one hundred and twenty (120) days of receipt of the original test results~~ **eighty (180) days after the date of the test.** Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred ~~twenty (120)~~ **eighty (180)** days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require ~~the a~~ certification that **meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.1647 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]

- ...
- (b) Unless otherwise specified in this permit, ~~for all record keeping requirements not already legally required, the Permittee shall be allowed up to~~ shall be implemented ~~within ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.~~

C.1748 General Reporting Requirements [326 IAC 2-8-4(3)(C)][326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. **except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.** This report shall be submitted ~~within~~ **not later than thirty (30) days** ~~of~~ after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include ~~the a~~ certification **that meets the requirements of 326 IAC 2-8-5(a)(1)** by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). **A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.**
- (b) ~~The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to~~ address for report submittal is:

Indiana Department of Environmental Management

...
~~(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

(de) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

C.1849 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the **applicable** standards for recycling and emissions reduction.:

- ~~(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.~~
- ~~(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.~~
- ~~(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.~~

FESOP CERTIFICATION FORM:

...
Mailing Address: ~~4351 West Morris Street, Indianapolis, IN 46241~~

FESOP EMERGENCY OCCURRENCE REPORT FORM:

...
Mailing Address: ~~4351 West Morris Street, Indianapolis, IN 46241~~

...
Attach a signed certification to complete this report.

FESOP QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT FORM:

...
Mailing Address: ~~4351 West Morris Street, Indianapolis, IN 46241~~

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

...
All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Swarna Prabha, of my staff, at 317-234-5376 or 1-800-451-6027, and ask for extension 4-5376.

Sincerely,



Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit and Appendix A

IC /SP

cc: File - Marion County
Marion County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

**New Source Construction and Federally Enforceable
State Operating Permit
OFFICE OF AIR QUALITY**

**Henry Company
4351 West Morris Street
Indianapolis, Indiana 46241**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F097-22588-00208	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 25, 2009 Expiration Date: June 25, 2014

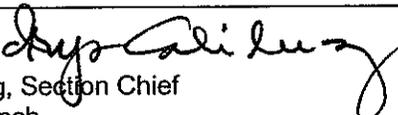
Administrative Amendment No.: F097-30065-00208	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 26, 2011 Expiration Date: June 25, 2014

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary batch mix protective coating manufacturer. The source does not perform blowing of asphalt or the saturation of roofing substrates by means of a saturator.

Source Address:	4351 West Morris Street, Indianapolis, IN 46241
General Source Phone Number:	(317) 248-1344
SIC Code:	2952
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) Five (5) Asphalt Cutback (ACB) Blenders, identified as Blender 1 through Blender 5, constructed in 1983 through 1984, each with a maximum capacity of 1,800 gallons, and having a combined maximum throughput of 10,800 lbs/hr per batch; using a WWSly dust collector as particulate control for Blenders 1 through 5, and exhausting to ACB Stack.
- (b) One (1) mixer identified as Mixer 12, constructed in 2003, maximum capacity of 3,800 gallons or 31,600 pounds/hr; using a WWSly dust collector as particulate control and exhausting to ACB stack.
- (c) Three (3) enclosed Asphalt Emulsion Plant (AEP) Tanks, identified as Emulsion Tank 24 Tank 25, and ribbon Tank 33 equipped with feed hopper and mixers, each constructed in 1983, each with a maximum capacity of 6,000 gallons, and having a combined maximum throughput of 48,000 lbs/hr; using an Air Chafeco bin vent for particulate control, and exhausting inside.
- (d) Three (3) enclosed AEP Slurry Tanks, identified as Slurry Tanks 46, 47 and 48 each tank fed by Flexicon feeder, constructed in 1983, and Slurry Tank 48 constructed in 2002, each Slurry Tank has a maximum capacity of 6,000 gallons; with a combined maximum throughput of 36,000 lbs/hr; using a Torit dust collector for particulate control from Flexicon feeder, exhausting through AEP-1, and wet scrubber for tank mixers, exhausting to stack AEP-2.
- (e) Three (3) enclosed Mixers and one (1) ribbon blender, equipped with feed hoppers in the Whippany area, three (3) Whippany Mixers identified as 7 through 9, and one ribbon blender, identified as hopper 10 and mixer 10, constructed in 1995 through 1997, maximum capacity of 4,000 gallon for each Mixer, and 1,400 gallon for ribbon blender, combined maximum throughput of 40,000 lbs/hr; using a torit dust collector as particulate control for hoppers 7 through 9, and Mixers 7 and 8, exhausting outside through stack Whippany, and Mixer 9, and ribbon blender hopper 10, and mixer 10, vent to bin vent

filter exhausting inside the building.

- (f) One (1) silica sand process, performing silica sand transfer operations and silica sand batch operations, consisting of:
 - 1) One (1) silica sand silo, identified as Silo 1, constructed in 2006, with a maximum annual throughput of 5.5 million tons per year, with particulate emissions controlled by a Whirl-Air Bin vent dust collector.
- (g) One (1) enclosed limestone storage silo identified as silo 2, constructed in 1983, with a maximum throughput of 5.5 tons per year, equipped with an air bin vent to control particulates, and exhausting inside.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) Space heaters, process heaters, or boilers using the following fuels:
 - (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, consisting of:
 - (i) One (1) 100 Horsepower Steam Boiler, identified as Boiler 1, constructed in 2008, equipped with a low NOx burner.
 - (ii) One (1) Hot Oil Heater, identified as Heater 1, constructed in 2008, nominally rated at 2.8 million British thermal units per hour (MMBtu/hr), equipped with a low NOx burner.
 - (iii) One (1) 37.8 Horsepower Hot Water Heater, identified as Heater 2, constructed in 2008.
- (b) Fifteen (15) enclosed storage Tanks, identified as tanks 60 through 73 and tank 12, located outside, used to store Water, Wax, Asphalt, Cutback and Mineral spirits:
 - (1) Twelve (12) Tanks, identified as Tank 60, 61, 63, and 65 through 73, each constructed in 1983, each with a maximum capacity of 20,000 gallons, utilizing no control devices.
 - (2) One (1) Storage Tank, identified as Tank 64, constructed in 1991, with a maximum capacity of 16,000 gallons, utilizing no control devices.
 - (3) One (1) Storage tank, identified as Tank 12, constructed in 1983, with a maximum capacity of 8,000 gallons, utilizing no control device.
 - (4) One (1) Storage Tank, identified as Tank 62, constructed in 1989, with a maximum capacity of 13,000 gallons, utilizing no control device.
- (c) Four (4) enclosed caulking cement storage Tanks, identified as Tank 14, through Tank 17, constructed in 2002 through 2007, with a capacity of 2165, 2000, 2000, and 1000 gallons respectively, and exhausting inside the building.
- (d) Two (2) enclosed finished good storage Tanks, identified as Tank 31 through Tank 32, constructed in 2002, each tank has a maximum capacity of 20,000 gallons, and exhausting inside the building.
- (e) Four (4) enclosed Intermediate Asphalt emulsion or wax storage Tanks, identified as Tanks 26, 27, 28 and 29, constructed in 1983, with a maximum capacity of 6000, 6000, 11879, 1641 gallons respectively, and exhausting inside the building.

- (f) Four (4) enclosed Intermediate Asphalt emulsion storage Tanks, identified as Tanks 41, 42, 43 and 44, constructed in 1983, each tank has a maximum capacity of 6000 gallons, exhausting inside the building.
- (g) Two (2) enclosed tanks 11 and 23 are not in operation.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4][326 IAC 2-8]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and 326 IAC 2-8 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

-
- (a) This permit, F097-22588-00208, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
 - (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

B.5 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

B.6 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.7 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.8 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.9 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.10 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:
 - (1) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:

- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
- (2) The compliance status;
- (3) Whether compliance was continuous or intermittent;
- (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.12 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.

The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.
- Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by an "authorized individual" need only referenced by the date of the original report.

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F097-22588-00208 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.18 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.19 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.20 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:
- Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue

MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.22 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue

MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any

monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, **for** all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.14 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

- (b) The response shall include minimizing the period of any startup, shutdown or malfunction
The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);
or
 - (3) any necessary follow-up actions to return operation normal or usual manner of operation.
- (1) initial inspection and evaluation;
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported- except that a deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with applicable standards for recycling and emissions reduction.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Five (5) Asphalt Cutback (ACB) Blenders, identified as Blender 1 through Blender 5, constructed in 1983 through 1984, each with a maximum capacity of 1,800 gallons, and having a combined maximum throughput of 10,800 lbs/hr per batch; using a WWSly dust collector as particulate control for Blenders 1 through 5, and exhausting to ACB Stack.
- (b) One (1) mixer identified as Mixer 12, constructed in 2003, maximum capacity of 3,800 gallons or 31,600 pounds/hr; using a WWSly dust collector as particulate control and exhausting to ACB stack.
- (c) Three (3) enclosed Asphalt Emulsion Plant (AEP) Tanks, identified as Emulsion Tank 24 Tank 25, and ribbon Tank 33 equipped with feed hopper and mixers, each constructed in 1983, each with a maximum capacity of 6,000 gallons, and having a combined maximum throughput of 48,000 lbs/hr; using an Air Chafeco bin vent for particulate control, and exhausting inside.
- (d) Three (3) enclosed AEP Slurry Tanks, identified as Slurry Tanks 46, 47 and 48 each tank fed by Flexicon feeder, constructed in 1983, and Slurry Tank 48 constructed in 2002, each Slurry Tank has a maximum capacity of 6,000 gallons; with a combined maximum throughput of 36,000 lbs/hr; using a Torit dust collector for particulate control from Flexicon feeder, exhausting through AEP-1, and wet scrubber for tank mixers, exhausting to stack AEP-2.
- (e) Three (3) enclosed Mixers and one (1) ribbon blender, equipped with feed hoppers in the Whippany area, three (3) Whippany Mixers identified as 7 through 9, and one ribbon blender, identified as hopper 10 and mixer 10, constructed in 1995 through 1997, maximum capacity of 4,000 gallon for each Mixer, and 1,400 gallon for ribbon blender, combined maximum throughput of 40,000 lbs/hr; using a torit dust collector as particulate control for hoppers 7 through 9, and Mixers 7 and 8, exhausting outside through stack Whippany, and Mixer 9, and ribbon blender hopper 10, and mixer 10, vent to bin vent filter exhausting inside the building.
- (f) One (1) silica sand process, performing silica sand transfer operations and silica sand batch operations, consisting of:
 - 1) One (1) silica sand silo, identified as Silo 1, constructed in 2006, with a maximum annual throughput of 5.5 million tons per year, with particulate emissions controlled by a Whirl-Air Bin vent dust collector.
- (g) One (1) enclosed limestone storage silo identified as silo 2, constructed in 1983, with a maximum throughput of 5.5 tons per year, equipped with an air bin vent to control particulates, and exhausting inside.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 FESOP Limitations [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4 (FESOP), PM10 and PM2.5 emissions from the following stack/control shall not exceed the emission limits listed in the table below:

Stack / Control Device ID	Unit Description	PM10 Emission Limit (lbs/hr)	PM2.5 Emission Limit (lbs/hr)
ACB/ WWSly dust collector	Asphalt Cutback Blenders and Mixer 12 (ACB)	0.23	0.23
Air Chafeco bin vent dust collector	Asphalt Emulsion Plant (AEP) Tanks	0.11	0.11
AEP-1 / Torit dust collector	Asphalt Emulsion Plant Slurry (AEP) -Flexicon feeders	0.46	0.46
AEP-2 / Wet Scrubber	Asphalt Emulsion Plant Slurry (AEP) Mixers	0.46	0.46
Whippany / Torit dust collector	Whippany hoppers 7,8 &9, Mixers 7 and 8	0.23	0.23
Bin Vent Filter	Whippany Mixer 9, ribbon blender hopper 10 and mixer 10	0.23	0.23
Whirl-Air Bin dust collector	Silica Sand Process	0.11	0.11
Air bin vent	Limestone Storage Silo	0.11	0.11

Compliance with these PM10 and PM2.5 limits in conjunction with the limited PM10 and PM2.5 PTE from the other emissions units shall limit the PM10 and PM2.5 emissions from the entire source to less than 100 tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits) and 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable.

D.1.2 Particulate Matter Limitations except Lake County [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6-5.1-2, particulate matter (PM) emission from each unit listed in the table below shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three hundredths (0.03) grain per dry standard cubic foot (dscf)).

Stack / Control Device ID	Unit Description
ACB/ WWSly dust collector	Asphalt Cutback Blenders and Mixer 12 (ACB)
Air Chafeco bin vent dust collector	Asphalt Emulsion Plant (AEP) Tanks
AEP-1 / Torit dust collector	Asphalt Emulsion Plant Slurry (AEP) -Flexicon feeders
AEP-2 / Wet Scrubber	Asphalt Emulsion Plant Slurry (AEP) Mixers
Whippany / Torit dust collector	Whippany hoppers 7,8 &9, Mixers 7 and 8
Bin Vent Filter	Whippany Mixer 9, ribbon blender hopper 10 and mixer 10
Whirl-Air Bin dust collector	Silica Sand Process

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and the control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.4 Particulate Control

- (a) In order to comply with Conditions D.1.1 and D.1.2, the baghouses, dust collectors and bin vents for particulate control shall be in operation and control emissions from the emission units at all times that the emission units are in operation as listed in the table below, when these units are in operation:

Stack / Control Device ID	Unit Description
ACB/ WWSly dust collector	Asphalt Cutback Blenders and Mixer 12 (ACB)
Air Chafeco bin vent dust collector	Asphalt Emulsion Plant (AEP) Tanks
AEP-1 / Torit dust collector	Asphalt Emulsion Plant Slurry (AEP) -Flexicon feeders
AEP-2 / Wet Scrubber	Asphalt Emulsion Plant Slurry (AEP) Mixers
Whippany / Torit dust collector	Whippany hoppers 7,8 &9, Mixers 7 and 8
Bin Vent Filter	Whippany Mixer 9, ribbon blender hopper 10 and mixer 10

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
- (c) In order to comply with Conditions D.1.1 and D.1.2, the wet scrubber, AEP-2, for particulate control shall be in operation and control emissions from the asphalt emulsion plant (AEP) slurry tanks, when these units are in operation.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

D.1.5 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts (stacks ACB, AEP-1, AEP-2, stack Whippany- Torit dust collector, and bin vent (Whirl-Air Bin vent dust collector)) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.6 Baghouse Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses or dust collector (ACB, AEP-1, and stack Whippany), at least once per day when these units are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 0.5 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a deviation from this permit

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ,

and shall be calibrated or replaced at least once every six (6) months.

D.1.7 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed units has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

D.1.8 Scrubber Parametric Monitoring

- (a) The Permittee shall monitor and record the flow rate of scrubber AEP-2 at least once per day when the associated processes are in operation. When for any one reading, the flow rate of the scrubber is less than 0.40 gallons per minute; the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a deviation from this permit
- (b) The Permittee shall monitor and record the pressure drop across the scrubbers AEP-2 at least once per day when the associated processes are in operation. When for any one reading, the pressure drop across a scrubber is outside the normal range of 0.5 and 6.0 inches of water, or a minimum established during the most recent stack test, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a deviation from this permit

The instruments used for determining the flow rate and pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months.

D.1.9 Scrubber Detection

In the event that a scrubber malfunction has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.10 Record Keeping Requirement

- (a) To document the compliance status with Condition D.1.5, the Permittee shall maintain

records of once per day visible emission notations of the baghouse stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

- (b) To document the compliance status with Condition D.1.6, the Permittee shall maintain once per day records of the pressure drop across the baghouses. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of the pressure drop reading (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.1.8, the Permittee shall maintain once per day records of the flow rate and pressure drop for scrubber AEP-2 during normal operation. The Permittee shall include in its daily record when a flow rate reading or pressure drop reading is not taken and the reason for the lack of flow rate reading or pressure drop reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Henry Company
Source Address: 4351 West Morris Street, Indianapolis, Indiana 46241
FESOP Permit No.: F097-22588-00208

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) _____
- Report (specify) _____
- Notification (specify) _____
- Affidavit (specify) _____
- Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Henry Company
Source Address: 4351 West Morris Street, Indianapolis, Indiana 46241
FESOP Permit No.: F097-22588-00208

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|--|

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Henry Company
Source Address: 4351 West Morris Street, Indianapolis, Indiana 46241
FESOP Permit No.: F097-22588-00208

Months: _____ **to** _____ **Year:** _____

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Mail to: Permit Administration & Support Section
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Henry Company
4351 West Morris Street
Indianapolis, Indiana 46241

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for _____
(Title) (Company Name)
3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____
(Company Name)
4. I hereby certify that Henry Company 4351 West Morris Street, Indianapolis, Indiana 46241, completed construction of the batch mix protective coating manufacturer on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on January 30, 2006 and as permitted pursuant to New Source Construction Permit and Federally Enforceable State Operating Permit No. F097-22588-00208, Plant ID No. 097-00208 issued on _____.
5. **Permittee, please cross out the following statement if it does not apply:** Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____
Date _____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana
on this _____ day of _____, 20____. My Commission expires: _____.

Signature _____
Name _____ (typed or printed)

SUMMARY OF EMISSIONS

Company Name: Henry Company
 Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
 Permit Number: 097-22588-00208
 Administrative Amendment No.: 097-30065-00208
 Reviewer: Swarna Prabha

Controlled Emissions (Tons/Yr)											
Pollutant	Combustion	ACB Blenders and mixer 12	AEP Emulsion Tanks	AEP Slurry Tanks		Whippany Tanks		Silica Sand Operations	Limestone storage silo	Roads*	Total
				AEP-1	AEP-2	Hopper 7,8,9 and mixer 7 and 8	Mixer 9 and ribbon blender 10				
PM	0.06	47.57	16.89	18.32	19.60	57.72	15.02	25.598	0.002	1.71	202.50
PM10	0.25	47.57	16.89	18.32	19.60	57.72	15.02	25.598	0.002	0.33	201.31
PM2.5	0.25	47.57	16.89	18.32	19.60	57.72	15.02	25.598	0.002	0.05	201.02
VOC	0.18	81.96	-	-	-	-	-	-	-	-	82.14
NOx	1.90	-	-	-	-	-	-	-	-	-	1.90
SO2	0.92	-	-	-	-	-	-	-	-	-	0.92
CO	2.72	-	-	-	-	-	-	-	-	-	2.72
Single HAP (Xylene)	-	2.15	-	-	-	-	-	-	-	-	2.15
Combined HAPs	0.06	3.87	-	-	-	-	-	-	-	-	3.93

Controlled Emissions (Tons/Yr)											
Pollutant	Combustion	ACB Blenders and mixer 12	AEP Emulsion Tanks	AEP Slurry Tanks		Whippany Tanks		Silica Sand Operations	Limestone Storage silo	Roads*	Total
				AEP-1	AEP-2	Hopper 7,8,9 and mixer 7 and 8	Mixer 9 and ribbon blender 10				
PM	0.06	0.48	0.17	0.92	0.98	0.58	0.75	0.256	0.00	0.85	5.04
PM10	0.25	0.48	0.17	0.92	0.98	0.58	0.75	0.256	0.00	0.17	4.54
PM2.5	0.25	0.48	0.17	0.92	0.98	0.58	0.75	0.256	0.00	0.02	4.40
VOC	0.18	81.96	-	-	-	-	-	-	-	-	82.14
NOx	1.90	-	-	-	-	-	-	-	-	-	1.90
SO2	0.92	-	-	-	-	-	-	-	-	-	0.92
CO	2.72	-	-	-	-	-	-	-	-	-	2.72
Single HAP (Xylene)	-	2.15	-	-	-	-	-	-	-	-	2.15
Combined HAPs	0.06	3.87	-	-	-	-	-	-	-	-	3.93

Controlled Emissions (Tons/Yr)											
Pollutant	Combustion	ACB Blenders and mixer 12	AEP Emulsion Tanks	AEP Slurry Tanks		Whippany Tanks		Silica Sand Operations	Limestone Storage silo	Roads*	Total
				AEP-1	AEP-2	Hopper 7,8,9 and mixer 7 and 8	Mixer 9 and ribbon blender 10				
PM	0.06	47.57	16.89	18.32	19.60	57.72	15.02	25.598	0.48	1.71	202.97
PM10	0.25	1.00	0.50	2.00	2.00	1.00	1.00	0.50	0.48	0.33	9.06
PM2.5	0.25	1.00	0.50	2.00	2.00	1.00	1.00	0.50	0.48	0.05	8.78
VOC	0.18	81.96	-	-	-	-	-	-	-	-	82.14
NOx	1.90	-	-	-	-	-	-	-	-	-	1.90
SO2	0.92	-	-	-	-	-	-	-	-	-	0.92
CO	2.72	-	-	-	-	-	-	-	-	-	2.72
Single HAP (Xylene)	-	2.15	-	-	-	-	-	-	-	-	2.15
Combined HAPs	0.06	3.87	-	-	-	-	-	-	-	-	3.93

* Roads are considered fugitive emission sources, therefore PTE is not included in PSD applicability.

** Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant"

**Appendix A: Emission Calculations
PM/ PM 10/ PM2.5 Emissions
From ACB Blenders and Mixer 12 (ACB)**

**Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha**

Emission Unit Description	Outlet Grain Loading (gr/acf)	Control Device Fan Flow Rate (acfm)	Control Efficiency (%)	Potential PM/PM10/PM2.5 Emission Rate			
				Uncontrolled		Controlled	
				(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
ACB Blenders and Mixer 12	0.006	2,112	99.00%	10.86	47.57	0.11	0.48
Total Potential to Emit PM/PM10/PM2.5:				10.86	47.57	0.11	0.48

Notes:

Methodology:

Potential Uncontrolled Emission Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs / (1 - Control Efficiency)
 Potential Controlled Emissions Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs

NOTE: The Particulate Matter Limitations except Lake County [326 IAC 6.5-1-2] is more stringent than the Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2], therefore the 326 IAC 6-3-2 does not apply.

**Appendix A: Emission Calculations
PM/ PM 10/ PM2.5 Emissions
From Emulsion Tanks (AEP) Tanks 24, 25 and Tank 33**

**Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha**

Emission Unit Description	Outlet Grain Loading (gr/acf)	Control Device Fan Flow Rate (acfm)	Control Efficiency (%)	Potential PM/PM10/PM2.5 Emission Rate			
				Uncontrolled		Controlled	
				(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Emulsion AEP Tanks	0.003	1,500	99.00%	3.86	16.89	0.04	0.17
Total Potential to Emit PM/PM10/PM2.5:				3.86	16.89	0.04	0.17

Notes:

Methodology:

Potential Uncontrolled Emission: Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs / (1 - Control Efficiency)

Potential Controlled Emission: Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs

NOTE: The Particulate Matter Limitations except Lake County [326 IAC 6.5-1-2] is more stringent than the Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2], therefore the 326 IAC 6-3-2 does not apply.

**Appendix A: Emission Calculations
PM/ PM 10/ PM2.5 Emissions
From Slurry Tanks 46, 47 and 48**

**Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha**

Emission Unit Stack Description	Outlet Grain Loading (gr/acf)	Control Device Fan Flow Rate (acfm)	Control Efficiency (%)	Potential PM/PM10/PM2.5 Emission Rate			
				Uncontrolled		Controlled	
				(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
AEP-2 (wet scrubber)	0.029	900	95.00%	4.47	19.60	0.22	0.98
AEP-1 (Torit dust collector)	0.016	1,525	95.00%	4.18	18.32	0.21	0.92
Total Potential to Emit PM/PM10/PM2.5:				8.66	37.92	0.43	1.90

Methodology:

Potential Uncontrolled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs / (1 - Co)
 Potential Controlled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs

**Appendix A: Emission Calculations
PM/ PM 10/ PM2.5 Emissions
From Whippany area mixers 7, 8, 9 and blender 10**

**Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha**

Emission Unit Description	Outlet Grain Loading (gr/acf)	Control Device Fan Flow Rate (acfm)	Control Efficiency (%)	Potential PM/PM10/PM2.5 Emission Rate			
				Uncontrolled		Controlled	
				(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Whippany Stack	0.015	1,025	99.00%	13.18	57.72	0.13	0.58
Bin vent filter	0.02	1,000	95.00%	3.43	15.02	0.17	0.75
Total Potential to Emit PM/PM10/PM2.5:				16.61	72.74	0.30	1.33

Methodology:

Potential Uncontrolled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs / (1 - Control Efficiency)
 Potential Controlled Emissions (tons/yr) = Outlet Loading (grains/acf) * Fan Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs

NOTE: The Particulate Matter Limitations except Lake County [326 IAC 6.5-1-2] is more stringent than the Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2], therefore the 326 IAC 6-3-2 does not apply.

**Appendix A: Emissions Calculations
VOC Emissions from ACB Blenders**

**Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha**

Material	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Volatiles (solids)	Maximum Annual Usage Per Tank (gal/yr)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year
Mineral Spirits	6.49	0.43%	0.0%	0.4%	0.0%	0.00%	946,080	0.03	0.03	3.01	72.33	13.20
Aromatic 100	7.28	1.70%	0.0%	1.7%	0.0%	0.00%	7,422	0.12	0.12	0.10	2.52	0.46
Potential Emissions Per Tank:										3.12	74.85	13.66
Combined Potential Emissions:										18.71	449.11	81.96

Note:

The ACB Blender Operation includes six (6) separate tanks.

Methodology:

Potential VOC pounds per hour = Density (lb/gal) * Weight % Volatile (H2O & Organics) * Maximum Annual Usage (gal/yr) * 1yr / 8760 hrs

Potential VOC pounds per day = Potential VOC pounds per hour * 24 hrs / 1 day

Potential VOC tons per year = Potential VOC pounds per hour * 8760 hrs / 1 yr * 2000 lbs / 1 ton

Combined Potential Emissions = Potential Emissions per Tank * 6 Tanks

**Appendix A: Emission Calculations
HAP Emissions from ACB Blenders**

Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha

Material	Density (Lb/Gal)	Maximum Annual Usage (gal/yr)	Weight % Xylene	Weight % Cumene	Xylene Emissions (ton/yr)	Cumene Emissions (ton/yr)
Mineral Spirits	6.49	5,676,480	0.00%	0.00%	0.00	0.00
Aromatic 100	6.43	44,532	1.20%	1.50%	1.72	2.15

Potential Emissions: 1.72 2.15

Worst Single HAP: 2.15 Xylene

Combined HAPs: 3.87

Note:

Potential Emissions are combined potential emissions from all six (6) ACB Blenders.

Methodology:

HAPS emission rate (tons/yr) = Density (lb/gal) * Maximum Annual Usage (gal/yr) * Weight % HAP * 1 ton/2000 lbs

**Appendix A: Emission Calculations
PM/ PM 10/ PM2.5 Emissions
From Silica Sand Operations and Limestone Storage Silo**

**Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha**

Emission Unit Description	Emission Factor (lb/ton)	Maximum Throughput (ton/yr)	Control Efficiency (%)	Potential PM/PM10/PM2.5 Emission Rate			
				Uncontrolled		Controlled	
				(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
Limestone Storage Silo	0.73	5.5	99	0.00046	0.002	0	0
Sand Silo Transfer	0.015	2,750	99.00%	0.00	0.02	0.00	0.00
Batch Operations	18.60	2,750	99.00%	5.84	25.58	0.06	0.26
Total Potential to Emit PM/PM10/PM2.5:				5.84	25.598	0.06	0.26

Notes:

Sand Silo Transfer emission factor based on AP-42 11.19.1 (Sand and Gravel Processing).

Batch Operations emission factor (0.0093lb/lb processed) based on mass balance information provided by source.

Limestone storage silo emission factor based on AP-42, Table 11.12-2 (Sand and Gravel Operations)

Methodology:

Potential Uncontrolled Emissions (lb/hr) = Emission Factor (lb/ton) * Maximum Throughput (ton/yr) / 8760 hrs

Potential Uncontrolled Emissions (ton/yr) = Potential Uncontrolled Emissions (lb/hr) * 8760 hrs / 2000 lbs

Potential Controlled Emissions (lb/hr) = Potential Uncontrolled Emissions (lb/hr) * (1-Control Efficiency (%))

Potential Controlled Emissions (ton/yr) = Potential Uncontrolled Emissions (ton/yr) * (1-Control Efficiency (%))

**Appendix A: Emission Calculations
Natural Gas Combustion Only**

Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Emission Unit ID
2.80	24.53	Hot Oil Heater (Low NOx Burner)
3.34	29.26	100 Hp Steam Boiler (Low NOx Burner)
1.26	11.06	37.8 Hp Hot Water Heater (Uncontrolled NOx)
7.40	64.85	

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	28.5	50	5.5	84
				**see below		
Potential Emission in tons/yr	0.06	0.25	0.92	1.90	0.18	2.72

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 3 for HAPs emissions calculations.

**Appendix A: Emission Calculations
Natural Gas Combustion Only
HAPs Emissions**

Company Name: Henry Company
Address City IN Zip: 4351 West Morris Street, Indianapolis, IN 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha

	HAPs - Organics				
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	6.809E-05	3.891E-05	2.432E-03	5.836E-02	1.102E-04

	HAPs - Metals				
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	1.621E-05	3.567E-05	4.539E-05	1.232E-05	6.809E-05

Methodology is the same as page 2.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads**

Company Name: Henry Company
Address City IN Zip: 4351 W. Morris Street, Indianapolis, Indiana 46241
Permit Number: 097-22588-00208
Administrative Amendment No.: 097-30065-00208
Reviewer: Swarna Prabha

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (12/2003).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Vehicle (entering plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	1500	0.284	5.7	2073.9
Vehicle (leaving plant) (one-way trip)	20.0	1.0	20.0	25.0	500.0	1500	0.284	5.7	2073.9
Total			40.0		1000.0			11.4	4147.7

Average Vehicle Weight Per Trip = $\frac{25.0}{1}$ tons/trip
 Average Miles Per Trip = $\frac{0.28}{1}$ miles/trip

Unmitigated Emission Factor, $E_f = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C]$ (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.082	0.016	0.0024	lb/mi = particle size multiplier (AP-42 Table 13.2.1-1)
W =	25.0	25.0	25.0	tons = average vehicle weight (provided by source)
C =	0.00047	0.00047	0.00036	lb/mi = emission factor for vehicle exhaust, brake wear, and tire wear (AP-42 Table 13.2.1-1)
sL =	0.6	0.6	0.6	g/m ² = Ubiquitous Baseline Silt Loading Values of paved roads (Table 13.2.1-3 for summer)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E * [1 - (p/4N)]$

Mitigated Emission Factor, $E_{ext} = \frac{E_f * [1 - (p/4N)]}{N}$
 where p = $\frac{125}{365}$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	0.90	0.18	0.03	lb/mile
Mitigated Emission Factor, $E_{ext} =$	0.82	0.16	0.02	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Vehicle (entering plant) (one-way trip)	0.93	0.18	0.03	0.85	0.17	0.02	0.43	0.08	0.01
Vehicle (leaving plant) (one-way trip)	0.93	0.18	0.03	0.85	0.17	0.02	0.43	0.08	0.01
	1.87	0.36	0.05	1.71	0.33	0.05	0.85	0.17	0.02

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
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SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: John Kinast
Henry Company
336 Cold Stream Road
Kimberton, PA 19442

DATE: May 26, 2011

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
FESOP
097-30065-00208

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Robert H Franklin, Responsible Official
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	DPABST 5/26/2011 Henry Company 097-30065-00208 (Final)		CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		John Kinast Henry Company 336 Cold Stream Road Kimberton PA 19442 (Source CAATS) (CONFIRM DELIVERY)									
2		Robert H Franklin Sr Plant Mgr Henry Company 4351 W Morris St Indianapolis IN 46241 (RO CAATS)									
3		Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 (Health Department)									
4		Mrs. Sandra Lee Watson 7834 E 100 S Marion IN 46953 (Affected Party)									
5		Indianapolis City Council and Mayors Office 200 East Washington Street, Room E Indianapolis IN 46204 (Local Official)									
6		Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 Indianapolis IN 46204 (Local Official)									
7		Matt Mosier Office of Sustainability 2700 South Belmont Ave. Administration Bldg. Indianapolis IN 46221 (Local Official)									
8		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)									
9											
10											
11											
12											
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Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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