



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: September 17, 2013

RE: Halstab, Division of Hammond Group, Inc. / 089-33545-00218

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.dot 6/13/2013



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Ms. Jean Ziga
Halstab, Division of Hammond Group, Inc.,
2323 165th Street
Hammond, IN 46320

September 17, 2013

Re: 089-33545-00218
Administrative Amendment to
F089-14167-00218

Dear Ms. Ziga:

Halstab Division of Hammond Group, Inc., was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F089-14167-00218 on June 16, 2005 for a stationary Industrial Inorganic and Organic Chemicals Manufacturing Plant located at 3100 Michigan Street, Hammond, Indiana 46323. On August 19, 2013, the Office of Air Quality (OAQ) received an application from the source requesting to remove a number of emission units from its operation that are no longer needed. Due to changes in customer, most of these units have not been in operation for quite some time and the source is now ready to completely shut down the equipments.

Though the removal of all these emission units, have caused their PTE to decrease but the source's potential to emit is still greater than the threshold levels specified in 326 IAC 2-2 or 326 IAC 2-3. The entire source will continue to limit PM and PM10 emissions to less than Part 70 thresholds, rendering the requirements of 326 IAC 2-7 not applicable. Therefore, Halstab Division of Hammond Group, Inc. will still continue to maintain their Federally Enforceable State Operating Permit (FESOP).

Pursuant to 326 IAC 2-8-10(a)(6)(D), this change to the permit is considered an administrative amendment because the permit is amended to incorporate or delete applicable requirements as a result of a change in applicability.

PTE of the Entire Source

The table below summarizes the total potential to emit, reflecting all limits, of the emission unit.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs/ Pb
Stack ID S-1 Feedstock Handling System	-	0.964	-	-	-	-	0.18
Stack ID S-2 Dispersion System	-	0.350	-	-	-	-	0.13
Stack ID S-3 Acid Dispersion System	4.380	4.380	-	-	-	-	-
Stack ID S-4 No. 1 Dryer	-	6.395	0.015	0.130	0.491	2.453	0.31
Stack ID S-5 Dryer No. 1 Containment System	-	4.511	-	-	-	-	0.31
Stack ID S-6 Mill Line No. 1	-	2.497	-	-	-	-	0.22
Stack ID S-7 Mill Line No. 2	-	2.497	-	-	-	-	0.22
Stack ID S-8 Mill Line No. 3	-	2.497	-	-	-	-	0.22

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs/ Pb
Stack ID S-9 Product Handling System No. 1	-	0.876	-	-	-	-	0.18
Stack ID S-10 Product Handling System No. 2	-	0.876	-	-	-	-	0.18
Stack ID S-11 Product Handling System No. 3	-	0.876	-	-	-	-	0.18
Stack ID S-12 Material Dump Station	-	0.876	-	-	-	-	0.18
Stack ID S-13 Material Handling System	-	0.876	-	-	-	-	0.18
Stack ID S-14 Blend Scale Hopper	-	0.876	-	-	-	-	0.18
Stack ID S-15 Blender	-	0.876	-	-	-	-	0.18
Stack ID S-16 Blended Product Handling System	-	0.876	-	-	-	-	0.18
Stack ID S-17 Bulk/Bag Packaging System, Mixed Metals System, & Two (2) Portable Packing Stations	-	8.716	-	-	-	-	0.31
Stack ID S-18 Boiler No. 1	0.084	0.035	0.007	0.061	0.924	1.10	-
Stack ID S-19 Boiler No. 2	0.084	0.035	0.007	0.061	0.924	1.10	-
Stack ID S-20 Central Vacuum System/No. 1 Dryer Vacuum System	0.127	0.127	-	-	-	-	0.105
Stack ID S-21 Dryer No. 3	10.935	10.935	0.010	0.090	0.340	1.701	0.31
Stack ID S-22 Dryer No. 5	0.007	0.007	0.001	0.012	0.044	0.219	0.0004
Total PTE After Issuance	15.617	50.954	Negligible	Negligible	2.723	6.573	3.755
Title V Major Source Thresholds	NA	100	100	100	100	25	100
PSD Major Source Thresholds	250	250	NA	250	250	NA	250
Emission Offset/Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	25 ⁽¹⁾ 100 ⁽²⁾	NA
negl. = negligible (1) 1-hour ozone standard (2) 8-hour ozone standard * 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". ** PM10 = PM2.5 These emissions are based upon IDEM OAQ Permit No.: 089-23378-00218 in the Limited Potential to emit table on page 4 of 29 of the TSD. No change was made to the calculations.							

For Stack IDs S-1, S-2, S-4, S-5, S-6, S-7, S-8, S-9, S-10, S-11, S-12, S-13, S-14, S-15, S-16, S-17, S-18, and S-19: PM10 emissions are limited in accordance with 326 IAC 6.8-2-14 or 326 IAC 6.8-6-9.
 For Stack IDs S-3, S-20, S-21, and S-22: Lead and HAPs emissions are limited in accordance with 326

IAC 15-1-2(a)(7).

The table below summarizes the potential to emit of the entire source (*reflecting adjustment of existing limits*), with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)									
	PM	PM10*	PM2.5	SO ₂	VOC	CO	NOx	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Stack ID S-1 Feedstock Handling System	-	0.964	-	-	-	-	-	-	0.18	-
Stack ID S-2 Dispersion System	-	0.350	-	-	-	-	-	-	0.13	-
Stack ID S-3 Acid Dispersion System	4.380	4.380	-	-	-	-	-	-		-
Stack ID S-4 No. 1 Dryer	-	6.395		0.015	0.130	0.494	2.453	-	0.34	-
Stack ID S-5 Dryer No. 1 Containment System	-	4.514	-	-	-	-	-	-	0.34	-
Stack ID S-6 Mill Line No. 1	-	2.497	-	-	-	-	-	-	0.22	-
Stack ID S-7 Mill Line No. 2	-	2.497	-	-	-	-	-	-	0.22	-
Stack ID S-8 Mill Line No. 3	-	2.497	-	-	-	-	-	-	0.22	-
Stack ID S-9 Product Handling System No. 1	-	0.876	-	-	-	-	-	-	0.18	-
Stack ID S-10 Product Handling System No. 2	-	0.876	-	-	-	-	-	-	0.18	-
Stack ID S-11 Product Handling System No. 3	-	0.876	-	-	-	-	-	-	0.18	-
Stack ID S-12 Material Dump Station	-	0.876	-	-	-	-	-	-	0.18	-
Stack ID S-13 Material Handling System	-	0.876	-	-	-	-	-	-	0.18	-
Stack ID S-14 Blend Scale Hopper	-	0.876	-	-	-	-	-	-	0.18	-
Stack ID S-15 Blender	-	0.876	-	-	-	-	-	-	0.18	-
Stack ID S-16 Blended Product Handling System	-	0.876	-	-	-	-	-	-	0.18	-

Process/ Emission Unit	Potential To Emit of the Entire Source (tons/year)									
	PM	PM10*	PM2.5	SO ₂	VOC	CO	NOx	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Stack ID S-17 Bulk/Bag Packaging System, Mixed Metals System, & Two (2) Portable Packing Stations	-	8.716	-	-	-	-	-	-	0.31	-
Stack ID S-18 Boiler No. 1	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1,296	0.02	0.019
Stack ID S-19 Boiler No. 2	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1,296	0.02	0.019
Stack ID S-20 Central Vacuum System/No. 1 Dryer Vacuum System	0.127	0.127	-	-	-	-	-		0.105	-
Stack ID S-21 Dryer No. 3	10.935	10.935	- 0.1	0.010	0.090	0.340 1.4	1.701	2074	0.31	-
Stack ID S-22 Dryer No. 5	0.007	0.007	-	0.001	0.012	0.044	0.219		0.0004	-
Natural Gas Combustion Units	0.07	0.3	0.3	0.02	0.2	3.2	3.8	4537	0.07	-
Acid Tank	0	0	0	0	1.4E-4	0	0	0	0	0
Part Washers	0	0	0	0	0.03	0	0	0	0	0
Mis. Painting	0	0	0	0	3E-4	0	0	0	0	0
EF1 - EF14	0.03	0.03	--	0	0	0	0	0	0	0.024
Total PTE of Entire Source	15.617 15.60	50.954 28.50	0.6	Negligible 0.05	Negligible 0.5	2.723 6.40	6.573 7.7	9,203	3.755 1.37	--
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	250	250	250	250	250	100,000	NA	NA
Emission Offset/Nonattainment NSR Major Source Thresholds	NA	NA	-	100	NA	NA	25 ⁽¹⁾ 100 ⁽²⁾	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". **The 100,000 CO ₂ e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD. These emissions are based upon IDEM OAQ Permit No.: 089-23378-00218 in the Limited Potential to emit table on page 4 of 29 of the TSD. No change was made to the calculations.										

For Stack IDs S-1, S-2, S-4, S-5, S-6, S-7, S-8, S-9, S-10, S-11, S-12, S-13, S-14, S-15, S-16, S-17, S-18, and S-19: PM10 emissions are limited in accordance with 326 IAC 6.8-2-14 or 326 IAC 6.8-6-9.
 For Stack IDs S-3, S-20, S-21, and S-22: Lead and HAPs emissions are limited in accordance with 326 IAC 15-1-2(a)(7).

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 the FESOP Administrative Amendment (tons/year)									
	PM	PM10*	PM2.5	SO ₂	VOC	CO	NO _x	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Stack ID S-1 Feedstock Handling System	-	0.964	-	-	-	-	-	-	0.18	0.18
Stack ID S-2 Dispersion System	-	0.350	-	-	-	-	-	-	0.13	0.13
Stack ID S-3 Acid Dispersion System	4.380	4.380	-	-	-	-	-	-	-	-
Stack ID S-8 Mill Line No. 3	-	2.497	-	-	-	-	-	-	0.22	0.22
Stack ID S-17 Mixed Metals System	-	8.716	-	-	-	-	-	-	0.31	0.31
Stack ID S-18 Boiler No. 1	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1,296	0.02	0.019
Stack ID S-19 Boiler No. 2	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1,296	0.02	0.019
Stack ID S-20 Central Vacuum System/No. 1 Dryer Vacuum System	0.127	0.127	-	-	-	-	-	-	0.105	0.105
Stack ID S-21 Dryer No. 3	10.93 5	10.935	0.1	0.010	0.090	1.4	1.701	2074	0.31	0.31
Natural Gas Combustion Units	0.07	0.3	0.3	0.02	0.2	3.2	3.8	4537	0.07	0.07
Acid Tank	0	0	0	0	1.4E-4	0	0	0	0	0
Part Washers	0	0	0	0	0.03	0	0	0	0	0
Mis. Painting	0	0	0	0	3E-4	0	0	0	0	0
EF1 - EF14	0.03	0.03	--	0	0	0	0	0	0.024	0.024
Total PTE of Entire Source	15.60	28.50	0.6	0.05	0.5	6.40	7.7	9,203	1.39	1.39
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	250	250	250	250	250	100,000	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". **The 100,000 CO ₂ e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD..										

For Stack IDs S-1, S-2, S-8, S-17, S-18, and S-19: PM10 emissions are limited in accordance with 326 IAC 6.8-2-14 or 326 IAC 6.8-6-9. For Stack IDs S-3, S-20, S-21, and S-22: Lead and HAPs emissions are limited in accordance with 326 IAC 15-1-2(a)(7).

The entire source will continue to limit emissions to less than Title V and PSD thresholds.

Pursuant to the provisions of 326 IAC 2-6.1-6, the permit is hereby administratively amended as follows with the deleted language as ~~strikeouts~~ and new language **bolded**:

Change 2: Section A.1 has been updated in the permit as follows.

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

The Permittee owns and operates a stationary Industrial Inorganic and Organic Chemicals Manufacturing Plant.

Source Address: 3100 Michigan Street, Hammond, Indiana 46323
General Source Phone: (219) 931-9360
SIC Code: 2819 – Industrial Inorganic Chemicals, nec
2869 – Industrial Organic Chemicals, nec
Source Location Status: Lake County
Attainment **for all other criteria pollutants** /Unclassifiable for
~~PM₁₀, PM_{2.5}, SO₂, CO, NO₂, and Lead,~~
Nonattainment for 8-hour ozone,
Source Status: Federally Enforceable State Operating Permit (FESOP)
Minor Source under PSD and Emission Offset Rules;
Minor Source, Section 112 of the Clean Air Act
1 of 28 Source Categories

Change 3: The emission units that are no longer needed at the source have been deleted from Section A.2 of the permit and the section has been renumbered.

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:

Note: Bin vent filters and bag filters located at Halstab are the same as or equivalent to baghouses. All of the baghouses are the reverse jet air pulse type and contain filter bags supported by wire cages.

~~(a) Stack ID S-6: Mill Line No. 1~~

~~This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper. Emissions units associated with Stack ID S-6 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 209) followed by a HEPA filter.~~

~~(b) Stack ID S-7: Mill Line No. 2~~

~~This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper. A rework station for the No. 3 Dryer is used to add material to the product stream feeding into either Mill Line No. 2 or 3. Emissions units associated with Stack ID S-7 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 236) followed by a HEPA filter.~~

(ea) Stack ID S-8: Mill Line No. 3

This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper. A rework station for the No. 3 Dryer is used to add material to the product stream feeding into either Mill Line No. 2 or 3.

Emissions units associated with Stack ID S-8 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 247) followed by a HEPA filter.

~~(d) Stack ID S-12: Material Dump Station~~

~~Bags of material are dumped into a bulk / bagged material dump station. Emissions units associated with Stack ID S-12 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 506) followed by a HEPA filter.~~

~~(e) Stack ID S-14: Blend Scale Hopper~~

~~Material is conveyed from the material handling system and product handling systems to a surge hopper, weighed through a Blend Scale Hopper, and then fed into a blender or to a Bulk/Bag Packaging System. Emissions units associated with Stack ID S-14 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 455) followed by a HEPA filter.~~

~~(f) Stack ID S-15: Blender~~

~~Material from the Blend Scale Hopper is fed to a Blend Product Hopper, blended, and then sent to a Blended Product Storage Hopper. Emissions units associated with Stack ID S-15 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 301) followed by a HEPA unit.~~

(gb) Stack ID S-17: Bulk/Bag Packaging System, Mixed Metals System, and Two (2) Portable Packing Stations

~~Unit ID: S-17-1: Bulk/Bag Packaging System~~

~~Product is loaded into either bulk containers or consumable bags for shipment. Emissions units associated with Stack ID S-17 were installed in November, 1981. Emissions from this system are controlled by bag filter (No. 430) followed by a HEPA unit which then vents through Stack S-17.~~

Unit ID: S-17-2: Mixed Metals System

Products are fed into a dump station and transferred to a blender. The blender discharges to a pneumatic conveying line which transfers the blended product to a surge hopper which feeds the bulk/bag packaging stations. The surge hopper can also receive product directly from the Blended Product Handling System for packaging.

Emissions from this system are controlled by bag filter (No. 430) followed by a HEPA unit which then vents through Stack S-17.

~~Unit ID: S-17-3: Two (2) Portable Packing Stations~~

~~Products from a portable tote bin are packaged in bags for shipment. Emissions from each station are controlled by bag filter (No. 430) followed by a HEPA unit~~

~~which then vents through Stack S-17.~~

Change 3: The emission units that are no longer needed at the source have been deleted from Section A.3 of the permit and the section shall be renumbered.

~~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, as defined in 326 IAC 2-7-1(21):~~

- (a) Stack ID S-3: Acid Dispersion System

Acid is poured into a dispersion tank where water is added.

Emissions units associated with Stack ID S-3 were installed in November, 1981.
There are no emission controls on this unit.

- ~~(b) Stack ID S-4: No. 1 Dryer~~

~~Reacted compound is conveyed to the dryer to evaporate off water.
Emissions units associated with Stack ID S-4 were installed in November, 1981.
Emissions from this system are controlled by a bag filter (No. 204) followed by a HEPA filter.~~

- ~~(c) Stack ID S-5: Dryer No. 1 Containment System~~

~~This stack services the Dryer No. 1 containment system and rework unloading station.
The containment system encloses the No. 1 Dryer and captures fugitive emissions in order to reduce employee exposure. The rework unloading station is used to feed rework material to the dryer discharge.
Emissions units associated with Stack ID S-5 were installed in November, 1981.
Emissions from this system are controlled by a bag filter (No. 226) followed by a HEPA filter.~~

- (k) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3-2][326 IAC 8-3-8].

Trivial Activities

The source also consists of the following trivial activities, as defined in 326 IAC 2-7-1(40):

- ~~(c) Stack ID S-9: Product Handling System No. 1~~

~~Graded product is pneumatically conveyed to a storage hopper prior to packing or blending with other materials.
Emissions units associated with Stack ID S-9 were installed in November, 1981.
Emissions from this system are controlled by a bin vent filter (No. 317) followed by a HEPA filter.~~

- ~~(d) Stack ID S-10: Product Handling System No. 2~~

~~Graded product is pneumatically conveyed to a storage hopper prior to packing or blending with other materials.
Emissions units associated with Stack ID S-10 were installed in November, 1981.
Emissions from this system are controlled by a bin vent filter (No. 318) followed by a HEPA filter.~~

- ~~(e) Stack ID S-11: Product Handling System No. 3~~

~~Graded product is pneumatically conveyed to a storage hopper prior to packing or blending with other materials.~~

~~Emissions units associated with Stack ID S-11 were installed in November, 1981. Emissions from this system are controlled by a bin vent filter (No. 319) followed by a HEPA filter.~~

~~(f) Stack ID S-13: Material Handling System~~

~~Material is pneumatically conveyed from the dump station to one of three hoppers. Emissions units associated with Stack ID S-13 were installed in November, 1981. Emissions from this system are controlled by bin vent filters (No. 653, 654, & 655) and a HEPA filter.~~

~~(g) Stack ID S-16: Blended Product Handling System~~

~~Blended product is pneumatically conveyed from the blender to one of three hoppers to await packaging. Emissions units associated with Stack ID S-16 were installed in November, 1981. Emissions from this system are controlled by bin vent filters (No. 650, 651, & 652) and a HEPA filter.~~

(hc) Stack ID S-20: Central Vacuum System/No. 1 Dryer Vacuum System

The Central Vacuum System is used for general housekeeping throughout the plant.

Emission units associated with Stack S-20 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 447).

~~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) to renew a Federally Enforceable State Operating Permit (FESOP).~~

~~A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]~~

~~(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either~~

~~(1) incorporated as originally stated,~~

~~(2) revised, or~~

~~(3) deleted~~

~~by this permit.~~

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

SECTION D.1 FACILITY EMISSIONS UNIT OPERATION CONDITIONS

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-6: Mill Line No. 1

This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper.

Emissions units associated with Stack ID S-6 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 209) followed by a HEPA filter.

Stack ID S-7: Mill Line No. 2

This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in

~~order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper. A rework station for the No. 3 Dryer is used to add material to the product stream feeding into either Mill Line No. 2 or 3.~~

~~Emissions units associated with Stack ID S-7 were installed in November, 1981.
Emissions from this system are controlled by a bag filter (No. 236) followed by a HEPA filter.~~

Stack ID S-8: Mill Line No. 3

This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper. A rework station for the No. 3 Dryer is used to add material to the product stream feeding into either Mill Line No. 2 or 3.

Emissions units associated with Stack ID S-8 were installed in November, 1981.
Emissions from this system are controlled by a bag filter (No. 247) followed by a HEPA filter.

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

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

D.1.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack IDs ~~S-6, S-7, & S-8~~, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.570 lbs/hr, ~~per stack~~, which is equivalent to 2.497 tons/yr.

Compliance with above condition and Conditions ~~D.1.1, D.2.1, D.3.1, D.4.2, D.4.4, D.5.1, D.6.1, D.7.1, and D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1~~, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.1.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack IDs ~~S-6, S-7, & S-8~~, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.05 lbs/hr, ~~per stack~~, which is equivalent to 0.22 tons/yr.

Compliance with the above condition and Conditions ~~D.1.2, D.2.2, D.3.2, D.4.2, D.5.2, D.7.2, D.6.2, D.7.2, and D.8.2 D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2~~, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

Compliance Determination Requirements

~~D.1.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

~~In order to demonstrate compliance with Condition D.1.2, the Permittee shall perform Pb testing on one of the mill line stacks, identified as S-6, S-7 and S-8, utilizing methods as approved by the Commissioner. These tests shall be repeated on a different stack at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.~~

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

D.1.7 Visible Emissions Notations

-
- (a) Visible emission notations of the Stack IDs ~~S-6, S-7, & S-8~~ exhaust 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.
-

D.1.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack IDs ~~S-6, S-7, & S-8~~, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

~~(Stack ID S-6)
Bag Filter No. 209: 0.1 – 10 inches of water
HEPA: 0.1 – 10 inches of water~~

~~(Stack ID S-7)
Bag Filter No. 236: 0.1 – 5 inches of water
HEPA: 0.1 – 10 inches of water~~

~~(Stack ID S-8)
Bag Filter No. 247: 0.1 – 10 inches of water
HEPA: 0.1 – 10 inches of water~~

.....

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.10 Record Keeping Requirements

-
- (a) To document the compliance status with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the Stack IDs ~~S-6, S-7, & S-8~~ stack exhaust at least once per day. 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 plant did not operate that day).
-

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Stack ID S-12: Material Dump Station

Bags of material are dumped into a bulk / bagged material dump station.

Emissions units associated with Stack ID S-12 were installed in November, 1981.

Emissions from this system are controlled by a bag filter (No. 506) followed by a HEPA filter.

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

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

~~D.2.1 Lake County: PM₁₀ Emission Requirements (PM10) [326 IAC 6.8-2-14]~~

~~FESOP Limit [326 IAC 2-8-4]~~

~~Pursuant to 326 IAC 6.8-2-14 (Lake County: PM10 emission requirements), the PM10 emissions from Stack ID S-12, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.200 lbs/hr which is equivalent to 0.876 tons/yr.~~

~~Compliance with the above condition and Conditions D.1.1, D.3.1, D.4.1, D.5.1, D.6.1, D.7.1, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.2.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]~~

~~Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-12, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.04 lbs/hr which is equivalent to 0.18 tons/yr.~~

~~Compliance with above condition and Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.5.2, D.6.2, D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.2.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]~~

~~A Preventive Maintenance Plan is required for this facility and any 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.2.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

~~In order to demonstrate compliance with Condition D.2.2, not later than 180 days after the introduction of lead product to the Material Dump Station, the Permittee shall perform Pb testing on Stack ID S-12 utilizing methods as approved by the Commissioner. Thereafter, this test 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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.~~

~~D.2.5 Particulate Matter less than 10 microns in diameter (PM10)~~

- ~~(a) In order to comply with Condition D.2.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

~~D.2.6 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition D.2.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.

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

D.2.7 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-12 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.2.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-12, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-12)

Bag Filter No. 506: 0.1 - 5 inches of water

HEPA: 0.1 - 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.2.9 Broken or Failed Bag Detection

(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 unit 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 the emission 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 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 tribeflows.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.7, the Permittee shall maintain records of visible emission notations of the Stack ID S-12 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.2.8, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).
- (c) Section C General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Stack ID S-14: Blend Scale Hopper

Material is conveyed from the material handling system and product handling systems to a surge hopper, weighed through a Blend Scale Hopper, and then fed into a blender or to a Bulk/Bag Packaging System.

Emissions units associated with Stack ID S-14 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 455) followed by a HEPA filter.

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

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

D.3.1 Lake County: PM₁₀ Emission Requirements (PM10) [326 IAC 6-8-2-14]

FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6-8-2-14 (Lake County: PM10 emission requirements), the PM10 emissions from Stack ID S-14, as specifically listed in 326 IAC 6-8-2-14(a), shall be limited to 0.022 gr/dscf and 0.200 lbs/hr which is equivalent to 0.876 tons/yr.

Compliance with the above condition and Conditions D.1.1, D.2.1, D.4.1, D.5.1, D.6.1, D.7.1, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.3.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-14, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.04 lbs/hr which is equivalent to 0.18 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.2.2, D.4.2, D.5.2, D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.3.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.3.4 Particulate Matter less than 10 microns in diameter (PM10)

- (a) In order to comply with Condition D.3.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.3.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]

- (a) In order to comply with Condition D.3.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.3.6 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-14 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.3.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-14, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-14)

Bag Filter No. 455: 0.1 - 5 inches of water

HEPA: 0.1 - 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.3.8 Broken or Failed Bag Detection~~

~~(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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.~~

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

~~D.3.9 Record Keeping Requirements~~

~~(a) To document the compliance status with Condition D.3.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-14 stack exhaust at least once per day. 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 plant did not operate that day).~~

~~(b) To document the compliance status with Condition D.3.7, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).~~

~~(c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.~~

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Stack ID S-15: Blender

Material from the Blend Scale Hopper is fed to a Blend Product Hopper, blended, and then sent to a Blended Product Storage Hopper.

Emissions units associated with Stack ID S-15 were installed in November, 1981.

Emissions from this system are controlled by a bag filter (No. 301) followed by a HEPA unit.

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

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

~~D.4.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]~~

~~Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-15, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.200 lbs/hr which is equivalent to 0.876 tons/yr.~~

~~Compliance with above condition and Conditions D.2.1, D.3.1, D.5.1, D.6.2, D.7.1, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.4.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]~~

~~Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-15, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.04 lbs/hr which is equivalent to 0.18~~

tons/yr.

~~Compliance with the above condition and Conditions D.1.2, D.2.2, D.3.2, D.5.2, D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.4.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]~~

~~A Preventive Maintenance Plan is required for this facility and any 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.4.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

~~In order to demonstrate compliance with Condition D.4.2, not later than 180 days after the introduction of lead product to the Blender, the Permittee shall perform Pb testing on Stack ID S-15 utilizing methods as approved by the Commissioner. Thereafter, this test 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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.~~

~~D.4.5 Particulate Matter less than 10 microns in diameter (PM10)~~

- ~~(a) In order to comply with Condition D.4.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

~~D.4.6 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition D.4.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

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

~~D.4.7 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the Stack ID S-15 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps~~

~~in accordance with Section C—Response to Excursions or Exceedances, shall be considered a deviation from this permit.~~

~~D.4.8—Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-15, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:~~

~~(Stack ID S-15)~~

~~Bag Filter No. 301: 0.1—5 inches of water~~

~~HEPA: 0.1—10 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. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.~~

~~The instrument used for determining the pressure 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.4.9—Broken or Failed Bag Detection~~

~~(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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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 tribeflows.~~

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

~~D.4.10—Record Keeping Requirements~~

~~(a) To document the compliance status with Condition D.4.7, the Permittee shall maintain records of visible emission notations of the Stack ID S-15 stack exhaust at least once per day. 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 plant did not operate that day).~~

~~(b) To document the compliance status with Condition D.4.8, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).~~

~~(c) Section C—General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.~~

SECTION D.52 FACILITY EMISSIONS UNIT OPERATION CONDITIONS

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-17: Bulk/Bag Packaging System, Mixed Metals System, and

Two (2) Portable Packing Stations

~~Unit ID: S-17-1: Bulk/Bag Packaging System~~

~~Product is loaded into either bulk containers or consumable bags for shipment.~~

~~Emissions units associated with Stack ID S-17 were installed in November, 1981.~~

~~Emissions from this system are controlled by bag filter (No. 430) followed by a HEPA unit which then vents through Stack S-17.~~

Unit ID: S-17-2: Mixed Metals System

Products are fed into a dump station and transferred to a blender. The blender discharges to a pneumatic conveying line which transfers the blended product to a surge hopper which feeds the bulk/bag packaging stations. The surge hopper can also receive product directly from the Blended Product Handling System for packaging.

Emissions from this system are controlled by bag filter (No. 430) followed by a HEPA unit which then vents through Stack S-17.

~~Unit ID: S-17-3: Two (2) Portable Packing Stations Products from a portable tote bin are packaged in bags for shipment. Emissions from each station are controlled by bag filter (No. 430) followed by a HEPA unit which then vents through Stack S-17.~~

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

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

D.52.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14(Lake County: PM10 emission requirements), the PM10 emissions from Stack ID S-17, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 1.990 lbs/hr which is equivalent to 8.716 tons/yr.

Compliance with above condition and Conditions **D.1.1, D.2.1, D.3.1, D.4.2, D.5.1, D.6.1, D.7.1 and D.8.1**-D.4.4, D.6.2, D.7.1, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.4, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.5.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-17, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.07 lbs/hr which is equivalent to 0.34 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 40 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.52.23 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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. 5.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]~~

~~In order to demonstrate compliance with Condition D.5.2, not later than 180 days after the introduction of lead product to the Bulk/Bag Packaging System and/or the Two (2) Portable Packing Stations, the Permittee shall perform Pb testing on Stack ID S-17 utilizing methods as approved by the Commissioner. Thereafter, this test 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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.~~

~~D.5.2.35 Particulate Matter less than 10 microns in diameter (PM10)~~

- ~~(a) In order to comply with Condition D.5.2.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

~~D.5.6 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition D.5.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 tons per year. Therefore, the Part 70 (326 IAC 2-7) requirements do not apply.~~
- ~~(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.~~

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

~~D.5.2.47 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the Stack ID S-17 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.52.58 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-17, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-17)
Exhaust Bag Filter No. 430: 0.1 - 5
HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.52.69 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.52.740 Record Keeping Requirements

- (a) To document the compliance status with Condition D.52.47 - **Visible Emission Notation**, the Permittee shall maintain records of visible emission notations of the Stack ID S-17 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.52.58 - **Parametric Monitoring**, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in

its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).

- (c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.
-

SECTION D.6 3 FACILITY EMISSIONS UNIT OPERATION CONDITIONS - INSIGNIFICANT ACTIVITY

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-3: Acid Dispersion System

Dry acid is poured into a dispersion tank where water is added.

Emissions units associated with Stack ID S-3 were installed in November, 1981.

There are no emission controls on this unit.

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

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

D.63.1 Particulate Matter less than 10 microns in diameter (PM₁₀) FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack ID S-3 shall be limited to 1.000 lb/hr which is equivalent to 4.380 tons/yr.

Compliance with the above condition and Conditions **D.1.1**, D.2.1, **D.4.2**, ~~D.3.1, D.4.1~~, D.5.1, D.6.1, D.7.1, **and** D.8.1, ~~D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1~~, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.-63.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.-63.3 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-3 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.-63.4 Record Keeping Requirements

- (a) To document the compliance status with Condition D.-63.34, the Permittee shall maintain records of visible emission notations of the Stack ID S-3 exhaust at least once per day. 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 plant did not operate that day).
- (b) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.7 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Facility Description [326 IAC 2-8-4(10)]:

Stack ID S-4: No. 1 Dryer

Reacted compound is conveyed to the dryer to evaporate off water.

Emissions units associated with Stack ID S-4 were installed in November, 1981.

Emissions from this system are controlled by a bag filter (No. 204) followed by a HEPA filter.

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

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

D.7.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-4, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 1.460 lbs/hr which is equivalent to 6.395 tons/yr.

Compliance with the above condition and Conditions D.2.1, D.3.1, D.4.1, D.5.1, D.6.2, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.7.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-4, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.07 lbs/hr which is equivalent to 0.31 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.5.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.7.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.7.4 Particulate Matter less than 10 microns in diameter (PM10)~~

- ~~(a) In order to comply with Condition D.7.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

~~D.7.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition D.7.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

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

~~D.7.6 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the Stack ID S-4 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.~~

~~D.7.7 Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-4, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:~~

~~(Stack ID S-4)~~

~~Bag Filter No. 204: 0.1 - 5 inches of water~~

~~HEPA: 0.1 - 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.~~

~~The instrument used for determining the pressure 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.7.8 Broken or Failed Bag Detection~~

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.~~

~~Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]~~

~~D.7.9 Record Keeping Requirements~~

- (a) ~~To document the compliance status with Condition D.7.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-4 stack exhaust at least once per day. 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 plant did not operate that day).~~
- (b) ~~To document the compliance status with Condition D.7.7, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).~~
- (c) ~~Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.~~

SECTION D.8 – FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

Facility Description [326 IAC 2-8-4(10)]:

Stack ID S-5: Dryer No. 1 Containment System

This stack services the Dryer No. 1 containment system and rework unloading station. The containment system encloses the No. 1 Dryer and captures fugitive emissions in order to reduce employee exposure. The rework unloading station is used to feed rework material to the dryer discharge.

Emissions units associated with Stack ID S-5 were installed in November, 1981.

Emissions from this system are controlled by a bag filter (No. 226) followed by a HEPA filter.

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

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

~~D.8.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]~~

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-5, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 1.030 lbs/hr which is equivalent to 4.511 tons/yr

Compliance with the above condition and Conditions D.2.1, D.3.1, D.4.1, D.5.1, D.6.1, D.7.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons

~~per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.8.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]~~

~~Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-5, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.07 lbs/hr which is equivalent to 0.31 tons/yr.~~

~~Compliance with the above condition and Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.5.2, D.7.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.8.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]~~

~~A Preventive Maintenance Plan is required for this facility and any 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.8.4 Particulate Matter less than 10 microns in diameter (PM10)~~

- ~~(a) In order to comply with Condition D.8.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

~~D.8.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition D.8.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

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

~~D.8.6 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the Stack ID S-5 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.~~

~~D.8.7 Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouse and HEPA filter used in~~

~~conjunction with the process associated with Stack ID S-5, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:~~

~~(Stack ID S-5)~~

~~Bag Filter No. 226: 0.1—10 inches of water~~

~~HEPA: 0.1—10 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. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.~~

~~The instrument used for determining the pressure 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.8.8 Broken or Failed Bag Detection~~

~~(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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.~~

~~Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]~~

~~D.8.9 Record Keeping Requirements~~

~~(a) To document the compliance status with Condition D.8.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-5 stack exhaust at least once per day. 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 plant did not operate that day).~~

~~(b) To document the compliance status with Condition D.8.7, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).~~

~~(c) Section C—General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.~~

SECTION D.9 4 FACILITY EMISSIONS UNIT OPERATION CONDITIONS - INSIGNIFICANT ACTIVITY

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-18: Boiler No. 1

This natural gas fired boiler, installed in November, 1981, has a maximum design capacity of 2.5 MMBtu/hr. This boiler is used to heat water for the acid tanks and to provide steam for the reactors. There is no control equipment associated with this unit.

Stack ID S-19: Boiler No. 2

This natural gas fired boiler, installed in November, 1981, has a maximum design capacity of 2.5 MMBtu/hr. This boiler is used to heat water for the acid tanks and to provide steam for the reactors. There is no control equipment associated with this unit.

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

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

D.94.1 Particulate Matter (PM) Limitation [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(b)(3), the particulate matter emission from either Stack S-18 or Stack S-19 shall not exceed 0.01 grains per dry standard cubic foot (dscf).

D.94.2 PM₁₀ FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack S-18 or Stack S-19 shall not exceed 0.171 lb/hr.

Compliance with the above condition and Conditions **D.1.1**, D.2.1, D.3.1, ~~D.4.1~~, D.5.1, D.6.1, D.7.1, **and** D.8.1, ~~D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, D.16.1 and D.17.1~~, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.94.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.94.4 Record Keeping Requirements

- (a) To document the compliance status with Condition D.94.1, the Permittee shall maintain monthly records of the fuel usage for each boiler. These records shall be made available upon request by IDEM, OAQ.
- (b) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.40 5 FACILITY EMISSIONS UNIT OPERATION CONDITIONS - INSIGNIFICANT ACTIVITY

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-21: Dryer No. 3

Reacted compound is conveyed into a drying chamber to evaporate off water. The dried product is separated from the air stream in a product recovery baghouse.

Emissions units associated with Stack ID S-21 were installed in October, 1996.
Emissions from this system are controlled by a product recovery baghouse (No. 805) and a HEPA filter.

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

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

D.-405.1 Particulate Matter less than 10 microns in diameter (PM₁₀) FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack ID S-21 shall be limited to 2.497 lbs/hr which is equivalent to 10.935 tons/yr.

Compliance with the above condition and Conditions **D.1.1**, D.2.1, D.3.1, **D.4.2**, ~~D.4.1~~, ~~D.5.1~~, D.6.1, D.7.1, **and** D.8.1, ~~D.9.2~~, ~~D.10.1~~, ~~D.12.1~~, ~~D.13.1~~, ~~D.14.1~~, ~~D.15.1~~, ~~D.16.1~~ and ~~D.17.1~~, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.-405.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-21, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.07 lbs/hr which is equivalent to 0.31 tons/yr.

Compliance with the above condition and Conditions D.1.2, ~~D.2.2~~, **D.6.2**, **D.7.2** and **D.8.2** ~~D.3.2~~, ~~D.4.2~~, ~~D.5.2~~, ~~D.7.2~~, ~~D.8.2~~, ~~D.12.2~~, ~~D.13.2~~, ~~D.14.2~~, ~~D.15.2~~, ~~D.16.2~~ and ~~D.17.2~~, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.-405.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.-405.4 Particulate Matter less than 10 microns in diameter (PM₁₀)

- (a) In order to comply with Condition D.-405.12, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.-405.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]

- (a) In order to comply with Condition D.-405.23, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.-405.6 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-21 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.405.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-21, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-21)
Baghouse: 0.1 – 10 inches of water
HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.405.8 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.405.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.405.7, the Permittee shall maintain records of visible emission notations of the Stack ID S-21 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.405.8, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).
- (c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

~~SECTION D.11~~

~~Reserved~~

SECTION D.12 6 FACILITY EMISSIONS UNIT OPERATION CONDITIONS - TRIVIAL ACTIVITY

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-1: Feedstock Handling System

Feedstock is pneumatically conveyed from bulk delivery trucks to a storage hopper, a weigh hopper and finally fed to a dispersion system.

Emissions units associated with Stack ID S-1 were installed in November, 1981.
Emissions from this system are controlled by a bin vent filter (No. 121) followed by a HEPA filter.

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

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

D.126.1 Lake County: PM10 emissions (PM10) [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14, (Lake County: PM₁₀ emission requirements), the PM10 emissions from Stack ID S-1, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.220 lbs/hr which is equivalent to 0.964 tons/yr.

Compliance with the above condition and Conditions **D.1.1**, D.2.1, D.3.1, **D.4.2**, ~~D.4.1~~, D.5.1, ~~D.6.1~~, D.7.1, **and** D.8.1, ~~D.9.2~~, ~~D.10.1~~, ~~D.13.1~~, ~~D.14.1~~, ~~D.15.1~~, ~~D.16.1~~ and ~~D.17.1~~, combined with

the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.-426.2 **Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]**

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-1, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.04 lbs/hr which is equivalent to 0.18 tons/yr.

Compliance with the above condition and Conditions D.1.2, ~~D.2.2, D.3.2, D.4.2,~~ D.5.2, D.7.2, **and** D.8.2, ~~D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, D.16.2 and D.17.2,~~ combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.-426.3 **Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

A Preventive Maintenance Plan is required for this facility and any 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.-426.4 **Particulate Matter less than 10 microns in diameter (PM10)**

- (a) In order to comply with Condition D.-426.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.-426.5 **Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]**

- (a) In order to comply with Condition D.-426.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.-426.6 **Visible Emissions Notations**

- (a) Visible emission notations of the Stack ID S-1 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.-426.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-1, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-1)

Bin Vent Filter No. 121: 0.1 – 10 inches of water

HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.-426.8 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.-426.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.~~426.6~~, the Permittee shall maintain records of visible emission notations of the Stack ID S-1 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.~~426.7~~, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).
- (c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.437 FACILITY EMISSIONS UNIT OPERATION CONDITIONS - TRIVIAL ACTIVITY

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-2: Dispersion System

Feedstock is fed to a dispersion tank where it is mixed with water and acid and then fed to a reactor.

Emissions units associated with Stack ID S-2 were installed in November, 1981.

Emissions from this system are controlled by a bag filter (No. 115) followed by a HEPA filter.

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

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

D.437.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-2, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.080 lbs/hr which is equivalent to 0.350 tons/yr.

Compliance with the above condition and Conditions **D.1.1**, D.2.1, D.3.1, **D.4.2**, ~~D.4.4~~, D.5.1, D.6.1, ~~D.7.1~~, **and** D.8.1, ~~D.9.2~~, D.10.1, D.12.1, D.14.1, D.15.1, ~~D.16.1~~ **and** ~~D.17.1~~, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.437.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-2, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.03 lbs/hr which is equivalent to 0.13 tons/yr.

Compliance with the above condition and Conditions D.1.2, ~~D.2.2~~, ~~D.3.2~~, ~~D.4.2~~, D.5.2, **D.6.2**, ~~D.7.2~~, **and** D.8.2, ~~D.10.2~~, ~~D.12.2~~, **and** ~~D.17.2~~, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.437.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.-437.4 Particulate Matter less than 10 microns in diameter (PM10)

- (a) In order to comply with Condition D.-437.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.-437.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]

- (a) In order to comply with Condition D.-437.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.-437.6 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-2 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.-437.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-2, at least once per day when the

process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of the following:

- (Stack ID S-2)
- Bag Filter No. 115: 0.1 – 10 inches of water
- HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.-137.8 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.-137.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.-137.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-2 stack exhaust once per day.
 - (b) To document the compliance status with Condition D.-137.7, the Permittee shall maintain records once per day of the total static pressure drop during normal operation when venting to the atmosphere.
 - (c) To document the compliance status with Condition D.-137.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
 - (d) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.
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~~SECTION D.14 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY~~

Facility Description [326 IAC 2-8-4(10)]:

Stack ID S-9: Product Handling System No. 1

Graded product is pneumatically conveyed to a storage hopper prior to packing or blending with other materials.

Emissions units associated with Stack ID S-9 were installed in November, 1981.

Emissions from this system are controlled by a bin vent filter (No. 317) followed by a HEPA filter.

Stack ID S-10: Product Handling System No. 2

Graded product is pneumatically conveyed to a storage hopper prior to packing or blending with other materials.

Emissions units associated with Stack ID S-10 were installed in November, 1981.

Emissions from this system are controlled by a bin vent filter (No. 318) followed by a HEPA filter.

Stack ID S-11: Product Handling System No. 3

Graded product is pneumatically conveyed to a storage hopper prior to packing or blending with other materials.

Emissions units associated with Stack ID S-11 were installed in November, 1981.

Emissions from this system are controlled by a bin vent filter (No. 319) followed by a HEPA filter.

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

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

D.14.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack IDs S-9, S-10, & S-11, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.200 lbs/hr, per stack, which is equivalent to 0.876 tons/yr.

Compliance with the above condition and Conditions D.2.1, D.3.1, D.4.1, D.5.1, D.6.1, D.7.1, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.15.1, D.16.1 and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.14.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack IDs S-9, S-10, & S-11, as specifically listed in 326 IAC 15-1-2(a)(7) shall be limited to 0.04 lbs/hr, per stack, which is equivalent to 0.18 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.5.2, D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.15.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.14.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.14.4 Particulate Matter less than 10 microns in diameter (PM₁₀)

- (a) In order to comply with Condition D.14.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

~~D.14.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition 14.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

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

~~D.14.6 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the Stack IDs S-9, S-10, & S-11 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.~~

~~D.14.7 Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack IDs S-9, S-10, & S-11, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:~~

~~(Stack ID S-9)~~

~~Bin Vent Filter No. 317: 0.1—5 inches of water~~

~~HEPA: 0.1—10 inches of water~~

~~(Stack ID S-10)~~

~~Bin Vent Filter No. 318: 0.1—5 inches of water~~

~~HEPA: 0.1—10 inches of water~~

~~(Stack ID S-11)~~

~~Bin Vent Filter No. 319: 0.1—10 inches of water~~

~~HEPA: 0.1—10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.~~

~~The instrument used for determining the pressure 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.14.8 Broken or Failed Bag Detection~~

- ~~(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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.~~

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.14.9 Record Keeping Requirements

- ~~(a) — To document the compliance status with Condition D.14.6, the Permittee shall maintain records of visible emission notations of the Stack IDs S-9, S-10, & S-11 stack exhaust at least once per day. 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 plant did not operate that day).~~
- ~~(b) — To document the compliance status with Condition D.14.7, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).~~
- ~~(c) — Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.~~

SECTION D.15 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY

Facility Description [326 IAC 2-8-4(10)]:

Stack ID S-13: Material Handling System

Material is pneumatically conveyed from the dump station to one of three hoppers.

Emissions units associated with Stack ID S-13 were installed in November, 1981.

Emissions from this system are controlled by bin vent filters (No. 653, 654, & 655) and a HEPA filter.

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

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

D.15.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-13, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.200 lbs/hr which is equivalent to 0.876 tons/yr.

Compliance with the above condition and Conditions D.2.1, D.3.1, D.4.1, D.5.1, D.6.1, D.7.1, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.16.1 and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.15.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-13, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.04 lbs/hr which is equivalent to 0.18 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.5.2, D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.16.2 and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

~~D.15.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]~~

~~A Preventive Maintenance Plan is required for this facility and any 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.15.4 Particulate Matter less than 10 microns in diameter (PM10)~~

- ~~(a) In order to comply with Condition D.15.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

~~D.15.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition D.15.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

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

~~D.15.6 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the Stack ID S-13 exhaust 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 steps in accordance with Section C-Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.~~

~~D.15.7 Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-13, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:~~

~~(Stack ID S-13)~~

~~Bin Vent Filter No. 653: 0.1 – 5 inches of water~~

~~Bin Vent Filter No. 654: 0.1 – 5 inches of water~~

~~Bin Vent Filter No. 655: 0.1 – 10 inches of water~~

~~HEPA: 0.1 – 10 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. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. The instrument used for determining the pressure 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.15.8 Broken or Failed Bag Detection~~

~~(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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.~~

~~Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]~~

~~D.15.9 Record Keeping Requirements~~

- ~~(a) To document the compliance status with Condition D.15.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-13 stack exhaust at least once per day. 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 plant did not operate that day).~~
- ~~(b) To document the compliance status with Condition D.15.7, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).~~
- ~~(c) Section C—General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.~~

~~SECTION D.16 FACILITY OPERATION CONDITIONS—TRIVIAL ACTIVITY~~

~~Facility Description [326 IAC 2-8-4(10)]:~~

~~Stack ID S-16: Blended Product Handling System~~

~~Blended product is pneumatically conveyed from the blender to one of three hoppers to await packaging.~~

~~Emissions units associated with Stack ID S-16 were installed in November, 1981.~~

~~Emissions from this system are controlled by bin vent filters (No. 650, 651, & 652) and a HEPA filter.~~

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

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

~~D.16.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]~~

~~Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-16, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.200 lbs/hr which is equivalent to 0.876 tons/yr.~~

~~Compliance with the above condition and Conditions D.2.1, D.3.1, D.4.1, D.5.1, D.6.1, D.7.1, D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1, and D.17.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.16.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]~~

~~Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-16, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.04 lbs/hr which is equivalent to 0.18 tons/yr.~~

~~Compliance with the above condition and Conditions D.1.2, D.2.2, D.3.2, D.4.2, D.5.2, D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2, and D.17.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.~~

~~D.16.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]~~

~~A Preventive Maintenance Plan is required for this facility and any 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.16.4 Particulate Matter less than 10 microns in diameter (PM10)~~

- ~~(a) In order to comply with Condition D.16.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

~~D.16.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]~~

- ~~(a) In order to comply with Condition D.16.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.~~
- ~~(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.~~

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

~~D.16.6 Visible Emissions Notations~~

- ~~(a) Visible emission notations of the Stack ID S-16 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.~~

D.16.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-16, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-16)

Bin Vent Filter No. 650: 0.1—10 inches of water

Bin Vent Filter No. 651: 0.1—10 inches of water

Bin Vent Filter No. 652: 0.1—10 inches of water

HEPA: 0.1—10 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. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.16.8 Broken or Failed Bag Detection

(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 unit 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 the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.16.9 Record Keeping Requirements

(a) To document the compliance status with Condition D.16.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-16 stack exhaust at least once per day. 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 plant did not operate that day).

(b) To document the compliance status with Condition D.16.7, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).

(c) Section C—General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.17 8 FACILITY EMISSIONS UNIT OPERATION CONDITIONS - TRIVIAL ACTIVITY

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-20: Central Vacuum System/No. 1 Dryer Vacuum System

The Central Vacuum System is used for general housekeeping throughout the plant.

Emissions units associated with Stack ID S-20 were installed in November, 1981.
Emissions from this system are controlled by a bag filter (No. 447).

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

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

D.478.1 Particulate Matter less than 10 microns in diameter (PM₁₀) FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack ID S-20 shall be limited to 0.029 lb/hr which is equivalent to 0.127 tons/yr.

Compliance with the above condition and Conditions **D.1.1**, D.2.1, D.3.1, **D.4.2**, ~~D.4.4~~, D.5.1, D.6.1, **and** D.7.1, ~~D.8.1, D.9.2, D.10.1, D.12.1, D.13.1, D.14.1, D.15.1 and D.16.1~~, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.-478.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, Pb emissions from Stack S-20 shall be limited to 0.024 lbs/hr which is equivalent to 0.105 tons/yr.

Compliance with the above condition and Conditions D.1.2, ~~D.2.2, D.3.2, D.4.2~~, D.5.2, **D.6.2**, **and** ~~D.7.2, D.8.2, D.10.2, D.12.2, D.13.2, D.14.2, D.15.2 and D.16.2~~, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.-478.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.-478.4 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-20 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take

response steps shall be considered a deviation from this permit.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.-478.5 Record Keeping Requirements

- (a) To document the compliance status with Condition D.-478.45, the Permittee shall maintain records of visible emission notations of the Stack ID S-20 exhaust at least once per day. 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 plant did not operate that day).
- (b) 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 made the 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.

Change 1: A new Section D.9 has been added to the permit to incorporate the insignificant past washers and its conditions. The part washers are in the permit but IDEM erroneously did not add its conditions into the permit.

SECTION D.9 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (a) **Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3-2][326 IAC 8-3-8];**

(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 2-7-5(1)]

D.9.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

- (a) **Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990:**
 - (1) **Equip the degreaser with a cover.**
 - (2) **Equip the degreaser with a device for draining cleaned parts.**
 - (3) **Close the degreaser cover whenever parts are not being handled in the degreaser.**

- (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
 - (5) Provide a permanent, conspicuous label that lists the operating requirements in (a)(3), (a)(4), (a)(6), and (a)(7) of this condition.
 - (6) Store waste solvent only in closed containers.
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) The Permittee shall ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) A refrigerated chiller.
 - (D) Carbon adsorption.
 - (E) An alternative system of demonstrated equivalent or better control as those outlined in (b)(1)(A) through (D) of this condition that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.
 - (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
 - (3) If used, solvent spray:
 - (A) must be a solid, fluid stream; and
 - (B) shall be applied at a pressure that does not cause excessive splashing.

D.9.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), before January 1, 2015, the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure than exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- service date).
- (3) The type of solvent purchased.
 - (4) The total volume of the solvent purchased.
 - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

Change 2: The description box has been revised in the permit accordingly.

**SECTION D.1 FACILITY OPERATION CONDITIONS
EMISSIONS UNIT OPERATION CONDITIONS**

Facility Emissions Unit Description [326 IAC 2-8-4(10)]:

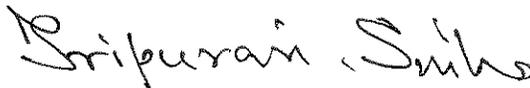
.....
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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 Josiah Balogun of my staff at 317-234-5257 or 1-800-451-6027, and ask for extension 4-5257.

Sincerely,



Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit

TS/JB

cc: File - Lake County
Lake County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Halstab, Division of Hammond Group, Inc.
3100 Michigan Street
Hammond, Indiana 46323**

(herein known as the Permittee) is hereby authorized to 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. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 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.

Operation Permit No.: F089-14167-00218	
Original signed by: Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: June 16, 2005 Expiration Date: June 16, 2015

1st Administrative Permit Amendment: No.: 089-22698-00218, issued: March 15, 2006.
1st Minor Permit Revision: No.: 089-23378-00218, issued: December 7, 2006.
2nd Administrative Amendment: No.: 089-25805-00218, issued: January 25, 2008.
3rd Administrative Amendment: No.: 089-28378-00218, issued: October 5, 2009
4th Administrative Amendment: No.: 089-29118-00218, issued: April 29, 2010
5th Administrative Amendment: No.: 089-31429-00218, issued: February 23, 2012

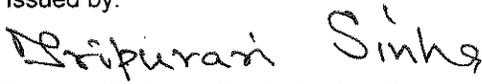
Administrative Amendment No. 089-33545-00218	
Issued by:  Tripurari P. Sinha, Ph.D., Section Chief Permits Branch Office of Air Quality	Issuance Date: September 17, 2013 Expiration Date: June 16, 2015

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Certification Form
Emergency Occurrence Report Form
Quarterly Deviation and Compliance Monitoring Report Form

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 Industrial Inorganic and Organic Chemicals Manufacturing Plant.

Source Address:	3100 Michigan Street, Hammond, Indiana 46323
General Source Phone:	(219) 931-9360
SIC Code:	2819 – Industrial Inorganic Chemicals, nec 2869 – Industrial Organic Chemicals, nec
Source Location Status:	Lake County Attainment for all other criteria pollutants Nonattainment for 8-hour ozone,
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source under PSD and Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act 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:

Note: Bin vent filters and bag filters located at Halstab are the same as or equivalent to baghouses. All of the baghouses are the reverse jet air pulse type and contain filter bags supported by wire cages.

(a) Stack ID S-8: Mill Line No. 3

This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper. A rework station for the No. 3 Dryer is used to add material to the product stream feeding into either Mill Line No. 2 or 3.

Emissions units associated with Stack ID S-8 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 247) followed by a HEPA filter.

(b) Stack ID S-17: Bulk/Bag Packaging System, Mixed Metals System, and Two (2) Portable Packing Stations

Unit ID: S-17-2: Mixed Metals System

Products are fed into a dump station and transferred to a blender. The blender discharges to a pneumatic conveying line which transfers the blended product to a surge hopper which feeds the bulk/bag packaging stations. The surge hopper can also receive product directly from the Blended Product Handling System for packaging.

Emissions from this system are controlled by bag filter (No. 430) followed by a HEPA unit which then vents through Stack S-17.

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, as defined in 326 IAC 2-7-1(21):

(a) Stack ID S-3: Acid Dispersion System

Acid is poured into a dispersion tank where water is added.

Emissions units associated with Stack ID S-3 were installed in November, 1981. There are no emission controls on this unit.

(b) Stack ID S-18: Boiler No. 1

This natural gas fired boiler, installed in November, 1981, has a maximum design capacity of 2.5 MMBtu/hr. This boiler is used to heat water for the acid tanks and to provide steam for the reactors. There is no control equipment associated with this unit.

(c) Stack ID S-19: Boiler No. 2

This natural gas fired boiler, installed in November, 1981, has a maximum design capacity of 2.5 MMBtu/hr. This boiler is used to heat water for the acid tanks and to provide steam for the reactors. There is no control equipment associated with this unit.

(d) Stack ID S-21: Dryer No. 3

Reacted compound is conveyed into a drying chamber to evaporate off water. The dried product is separated from the air stream in a product recovery baghouse.

Emissions units associated with Stack ID S-21 were installed in October, 1996. Emissions from this system are controlled by a product recovery baghouse (No. 805) and a HEPA filter.

(e) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

(f) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.

(g) Combustion source flame safety purging on startup.

(h) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.

(i) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(j) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

(k) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3-2][326 IAC 8-3-8].

- (l) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 °F) or;
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 °C (68 °F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (m) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (n) Closed loop heating and cooling systems.
- (o) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 % by volume.
- (p) Any operation using aqueous solutions containing less than 1 % by weight of VOCs excluding HAPs.
- (q) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (r) Replacement or repair of bags or baghouses and filters in other air filtration equipment.
- (s) Heat exchanger cleaning and repair.
- (t) Process vessel degassing and cleaning to prepare for internal repairs.
- (u) Paved and unpaved roads and packing lots with public access. [326 IAC 6-4]
- (v) Conveyors as follows: Underground conveyors.
- (w) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (x) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (y) Blowdown for any of the following: sight glass; boilers; compressors; pumps; and cooling tower.
- (z) On-site fire and emergency response training approved by the department.
- (aa) Purge double block and bleed valves.
- (bb) Filter or coalescer media changeout.
- (cc) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (dd) Research and development activities as defined in 326 IAC 2-7-1(21)(E).

Trivial Activities

The source also consists of the following trivial activities, as defined in 326 IAC 2-7-1(40):

(a) Stack ID S-1: Feedstock Handling System

Feedstock is pneumatically conveyed from bulk delivery trucks to a storage hopper, a weigh hopper and finally fed to a dispersion system.

Emissions units associated with Stack ID S-1 were installed in November, 1981. Emissions from this system are controlled by a bin vent filter (No. 121) followed by a HEPA filter.

(b) Stack ID S-2: Dispersion System

Feedstock is fed to a dispersion tank where it is mixed with water and acid and then fed to a reactor.

Emissions units associated with Stack ID S-2 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 115) followed by a HEPA filter.

(c) Stack ID S-20: Central Vacuum System/No. 1 Dryer Vacuum System

The Central Vacuum System is used for general housekeeping throughout the plant.

Emission units associated with Stack S-20 were installed in November, 1981. Emissions from this system are controlled by a bag filter (No. 447).

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) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

- (1) incorporated as originally stated,
- (2) revised, or
- (3) deleted

by this permit.

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

SECTION B

General Conditions

B.1 Permit No Defense [IC 13]

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.

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

Terms in this permit shall have the meaning 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.3 Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]

- (a) This permit, F089-14167-00218, is issued for a fixed term of ten (10) 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.4 Enforceability [326 IAC 2-8-6]

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.5 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.6 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.7 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.8 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.9 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.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:
- (i) it contains a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1), and
 - (ii) the certification is 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. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15th 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, IDEM, OAQ may require to determine the compliance status of the source.

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).

B.12 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), 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.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, 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 326 IAC 2-8-2(d) by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) 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 does not require a certification that meets the requirements

of 326 IAC 2-8-3(d) by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (d) 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.13 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 describes 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 No.: 1-800-451-6027
(ask for Office of Air Quality, Compliance and Enforcement Branch) or,
Telephone No.: 317-233-0178 (ask for Compliance and Enforcement Branch)
Facsimile No.: 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 the certification by the "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) 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.

B.14 Reserved

B.15 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 FESOP 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 by the "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.16 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) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) 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.
 - (2) If IDEM, OAQ upon receiving a timely and complete 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.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
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.17 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 the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 Operational Flexibility [326 IAC 2-8-15] [326 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) and c without 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 emissions allowable under 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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15 (b)(1) and (c) and makes such records available, upon reasonable request, to 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)(1) and (c).

- (b) **Emission Trades [326 IAC 2-8-15(b)]**
The Permittee may trade increases and decreases in emissions in 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(b).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(c)]**
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.19 Source Modification Requirements [326 IAC 2-8-11.1]

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

B.20 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.21 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.22 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.23 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

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

C.1 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 volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
 - (2) The potential to emit any regulated pollutant from the entire source, except particulate matter (PM) and volatile organic compounds (VOCs), shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period;
 - (3) 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
 - (4) 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) 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 the source's potential to emit does not exceed the above-specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 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 twenty percent (20%) 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.3 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.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse 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 9-1-1 or in this permit.

C.5 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.6 Fugitive Dust Emissions [326 IAC 6-1-11.1]

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%).

C.7 Lake County Particulate Matter Contingency Measures [326 IAC 6-1-11.2]

The Permittee shall comply with the applicable provisions of 326 IAC 6-1-11.2 (Lake County Particulate Matter Contingency Measures).

C.8 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.9 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.10 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 by the "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.11 Performance Testing [326 IAC 3-6]

- (a) 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.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (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.12 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.13 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 meet 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 emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.14 Continuous Compliance Plan [326 IAC 6.8-8]

Pursuant to 326 IAC 6.8-8 (Lake County: Continuous Compliance Plan), the Permittee shall submit to IDEM, OAQ and maintain at the source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring, and record keeping requirements as specified in 326 IAC 6.8-8 or according to the Permittee's CCP.

C.15 Reserved

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

C.16 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.17 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 to 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;
 - (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.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

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.

- (a) 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.
- (b) 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 the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

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

C.19 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. Support information includes the following:

- (AA) All calibration and maintenance records.
- (BB) All original strip chart recordings for continuous monitoring instrumentation
- (CC) Copies of all reports required by the FESOP.

Records of required monitoring information include the following:

- (AA) The date, place, as defined by this permit, and time of sampling or measurements.
- (BB) The dates analyses were performed.
- (CC) The company or entity that performed the analyses.
- (DD) The analytical techniques or methods used.
- (EE) The results of such analyses.
- (FF) The operating conditions as existing at the time of sampling or measurement.

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 with 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.20 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. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of this paragraph. 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 thirty (30) days of 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) Reserved.

- (e) 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.21 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 [326 IAC 2-8-4(10)]:

Stack ID S-8: Mill Line No. 3

This line is used for milling dried products. Dried product is collected in a hopper then fed into a Mill in order to reduce the particle size as specified by the customer. Reduced material is graded through a cyclone and collected in another hopper. A rework station for the No. 3 Dryer is used to add material to the product stream feeding into either Mill Line No. 3.

Emissions units associated with Stack ID S-8 were installed in November, 1981.
Emissions from this system are controlled by a bag filter (No. 247) followed by a HEPA filter.

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

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

D.1.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack IDs S-6, S-7, & S-8, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.570 lbs/hr, per stack, which is equivalent to 2.497 tons/yr.

Compliance with above condition and Conditions D.2.1, D.3.1, D.4.2, D.5.1, D.6.1, D.7.1, and D.8.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.1.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-8, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.05 lbs/hr, per stack, which is equivalent to 0.22 tons/yr.

Compliance with the above condition and Conditions D.5.2, D.6.2, D.7.2, and D.8.2 combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

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

A Preventive Maintenance Plan is required for this facility and any 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 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.1.2, the Permittee shall perform Pb testing on one of the mill line stack, identified as S-8, utilizing methods as approved by the Commissioner. These tests shall be repeated on a different stack at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

D.1.5 Particulate Matter less than 10 microns in diameter (PM₁₀)

- (a) In order to comply with Condition D.1.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.1.6 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]

- (a) In order to comply with Condition D.1.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-8 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.1.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-8, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-8)
Bag Filter No. 247: 0.1 – 10 inches of water
HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.7, the Permittee shall maintain records of visible emission notations of the Stack ID S-8 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.1.8, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).
- (c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-17: Mixed Metals System

Unit ID: S-17-2: Mixed Metals System

Products are fed into a dump station and transferred to a blender. The blender discharges to a pneumatic conveying line which transfers the blended product to a surge hopper which feeds the bulk/bag packaging stations. The surge hopper can also receive product directly from the Blended Product Handling System for packaging.

Emissions from this system are controlled by bag filter (No. 430) followed by a HEPA unit which then vents through Stack S-17.

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

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

D.2.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-17, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 1.990 lbs/hr which is equivalent to 8.716 tons/yr.

Compliance with above condition and Conditions D.1.1, D.3.1, D.4.2, D.5.1, D.6.1, D.7.1 and D.8.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.2.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.2.3 Particulate Matter less than 10 microns in diameter (PM₁₀)

- (a) In order to comply with Condition D.2.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.2.4 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-17 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.2.5 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-17, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-17)
Exhaust Bag Filter No. 430: 0.1 - 5
HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.2.6 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.7 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.4 - Visible Emission Notation, the Permittee shall maintain records of visible emission notations of the Stack ID S-17 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.2.5 - Parametric Monitoring, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).
- (c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS - INSIGNIFICANT ACTIVITY

Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-3: Acid Dispersion System

Dry acid is poured into a dispersion tank where water is added.

Emissions units associated with Stack ID S-3 were installed in November, 1981.
There are no emission controls on this unit.

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

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

D.3.1 Particulate Matter less than 10 microns in diameter (PM₁₀) FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack ID S-3 shall be limited to 1.000 lb/hr which is equivalent to 4.380 tons/yr.

Compliance with the above condition and Conditions D.1.1, D.2.1, D.4.2, D.5.1, D.6.1, D.7.1, and D.8.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.3.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.3.3 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-3 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.3.4 Record Keeping Requirements

- (a) To document the compliance status with Condition D.3.3, the Permittee shall maintain records of visible emission notations of the Stack ID S-3 exhaust at least once per day. 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 plant did not operate that day).

- (b) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS - INSIGNIFICANT ACTIVITY

Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-18: Boiler No. 1

This natural gas fired boiler, installed in November, 1981, has a maximum design capacity of 2.5 MMBtu/hr. This boiler is used to heat water for the acid tanks and to provide steam for the reactors. There is no control equipment associated with this unit.

Stack ID S-19: Boiler No. 2

This natural gas fired boiler, installed in November, 1981, has a maximum design capacity of 2.5 MMBtu/hr. This boiler is used to heat water for the acid tanks and to provide steam for the reactors. There is no control equipment associated with this unit.

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

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

D.4.1 Particulate Matter (PM) Limitation [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(b)(3), the particulate matter emission from either Stack S-18 or Stack S-19 shall not exceed 0.01 grains per dry standard cubic foot (dscf).

D.4.2 PM₁₀ FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack S-18 or Stack S-19 shall not exceed 0.171 lb/hr.

Compliance with the above condition and Conditions D.1.1, D.2.1, D.3.1, D.5.1, D.6.1, D.7.1, and D.8.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.4.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.4.4 Record Keeping Requirements

- (a) To document the compliance status with Condition D.4.1, the Permittee shall maintain monthly records of the fuel usage for each boiler. These records shall be made available upon request by IDEM, OAQ.
- (b) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS - INSIGNIFICANT ACTIVITY

Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-21: Dryer No. 3

Reacted compound is conveyed into a drying chamber to evaporate off water. The dried product is separated from the air stream in a product recovery baghouse.

Emissions units associated with Stack ID S-21 were installed in October, 1996. Emissions from this system are controlled by a product recovery baghouse (No. 805) and a HEPA filter.

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

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

D.5.1 Particulate Matter less than 10 microns in diameter (PM₁₀) FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack ID S-21 shall be limited to 2.497 lbs/hr which is equivalent to 10.935 tons/yr.

Compliance with the above condition and Conditions D.1.1, D.2.1, D.3.1, D.4.2, D.6.1, D.7.1, and D.8.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.5.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-21, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.07 lbs/hr which is equivalent to 0.31 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.6.2, D.7.2 and D.8.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.5.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.5.4 Particulate Matter less than 10 microns in diameter (PM₁₀)

- (a) In order to comply with Condition D.5.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.5.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]

- (a) In order to comply with Condition D.5.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.5.6 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-21 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.5.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-21, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-21)

Baghouse: 0.1 – 10 inches of water

HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.5.8 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.5.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.5.7, the Permittee shall maintain records of visible emission notations of the Stack ID S-21 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.5.8, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).
- (c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS - TRIVIAL ACTIVITY

Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-1: Feedstock Handling System

Feedstock is pneumatically conveyed from bulk delivery trucks to a storage hopper, a weigh hopper and finally fed to a dispersion system.

Emissions units associated with Stack ID S-1 were installed in November, 1981.
Emissions from this system are controlled by a bin vent filter (No. 121) followed by a HEPA filter.

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

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

D.6.1 Lake County: PM₁₀ emissions (PM₁₀) [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14, (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-1, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.220 lbs/hr which is equivalent to 0.964 tons/yr.

Compliance with the above condition and Conditions D.1.1, D.2.1, D.3.1, D.4.2, D.5.1, D.7.1, and D.8.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.6.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-1, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.04 lbs/hr which is equivalent to 0.18 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.5.2, D.7.2 and D.8.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.6.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.6.4 Particulate Matter less than 10 microns in diameter (PM₁₀)

- (a) In order to comply with Condition D.6.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.6.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]

- (a) In order to comply with Condition D.6.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.6.6 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-1 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.6.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-1, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID S-1)
Bin Vent Filter No. 121: 0.1 – 10 inches of water
HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.6.8 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.6.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.6.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-1 stack exhaust at least once per day. 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 plant did not operate that day).
- (b) To document the compliance status with Condition D.6.7, the Permittee shall maintain records of the pressure drop daily. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the plant did not operate that day).
- (c) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.7 EMISSIONS UNIT OPERATION CONDITIONS - TRIVIAL ACTIVITY

Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-2: Dispersion System

Feedstock is fed to a dispersion tank where it is mixed with water and acid and then fed to a reactor.

Emissions units associated with Stack ID S-2 were installed in November, 1981.

Emissions from this system are controlled by a bag filter (No. 115) followed by a HEPA filter.

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

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

D.7.1 Lake County: PM₁₀ Emission Requirements [326 IAC 6.8-2-14] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 6.8-2-14 (Lake County: PM₁₀ emission requirements), the PM₁₀ emissions from Stack ID S-2, as specifically listed in 326 IAC 6.8-2-14(a), shall be limited to 0.022 gr/dscf and 0.080 lbs/hr which is equivalent to 0.350 tons/yr.

Compliance with the above condition and Conditions D.1.1, D.2.1, D.3.1, D.4.2, D.5.1, D.6.1, and D.8.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.7.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions from Stack ID S-2, as specifically listed in 326 IAC 15-1-2(a)(7), shall be limited to 0.03 lbs/hr which is equivalent to 0.13 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.5.2, D.6.2 and D.8.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.7.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.7.4 Particulate Matter less than 10 microns in diameter (PM₁₀)

- (a) In order to comply with Condition D.7.1, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

D.7.5 Lead (Pb) [326 IAC 15-1-2(a)(7)(A)]

- (a) In order to comply with Condition D.7.2, the baghouse and HEPA system shall be operated at all times when the associated facility is in operation.
- (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.

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

D.7.6 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-2 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

D.7.7 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID S-2, at least once per day when the process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of the following:

(Stack ID S-2)
Bag Filter No. 115: 0.1 – 10 inches of water
HEPA: 0.1 – 10 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. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure 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.7.8 Broken or Failed Bag Detection

- (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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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 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.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.7.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.7.6, the Permittee shall maintain records of visible emission notations of the Stack ID S-2 stack exhaust once per day.
- (b) To document the compliance status with Condition D.7.7, the Permittee shall maintain records once per day of the total static pressure drop during normal operation when venting to the atmosphere.
- (c) To document the compliance status with Condition D.7.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (d) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.8 EMISSIONS UNIT OPERATION CONDITIONS - TRIVIAL ACTIVITY

Emissions Unit Description [326 IAC 2-8-4(10)]:

Stack ID S-20: Central Vacuum System/No. 1 Dryer Vacuum System

The Central Vacuum System is used for general housekeeping throughout the plant.

Emissions units associated with Stack ID S-20 were installed in November, 1981.
Emissions from this system are controlled by a bag filter (No. 447).

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

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

D.8.1 Particulate Matter less than 10 microns in diameter (PM₁₀) FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from Stack ID S-20 shall be limited to 0.029 lb/hr which is equivalent to 0.127 tons/yr.

Compliance with the above condition and Conditions D.1.1, D.2.1, D.3.1, D.4.2, D.5.1, D.6.1, and D.7.1, combined with the potential to emit PM₁₀ from other emission units at the source, will limit PM₁₀ emissions from the entire source to less than 100 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.8.2 Lead (Pb) [326 IAC 15-1-2] FESOP Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, Pb emissions from Stack S-20 shall be limited to 0.024 lbs/hr which is equivalent to 0.105 tons/yr.

Compliance with the above condition and Conditions D.1.2, D.5.2, D.6.2, and D.7.2, combined with the potential to emit Pb from other emission units at the source, will limit Pb emissions from the entire source to less than 10 tons per year and will render 326 IAC 2-7 not applicable to the source.

D.8.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for this facility and any 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.8.4 Visible Emissions Notations

- (a) Visible emission notations of the Stack ID S-20 exhaust 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 steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps shall be considered a deviation from this permit.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.8.5 Record Keeping Requirements

- (a) To document the compliance status with Condition D.8.4, the Permittee shall maintain records of visible emission notations of the Stack ID S-20 exhaust at least once per day. 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 plant did not operate that day).
- (b) Section C – General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.9 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3-2][326 IAC 8-3-8];

(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.9.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

- (a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990:
- (1) Equip the degreaser with a cover.
 - (2) Equip the degreaser with a device for draining cleaned parts.
 - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
 - (5) Provide a permanent, conspicuous label that lists the operating requirements in (a)(3), (a)(4), (a)(6), and (a)(7) of this condition.
 - (6) Store waste solvent only in closed containers.
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) The Permittee shall ensure the following additional control equipment and operating requirements are met:
- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) A refrigerated chiller.
 - (D) Carbon adsorption.
 - (E) An alternative system of demonstrated equivalent or better control as those outlined in (b)(1)(A) through (D) of this condition that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray:
 - (A) must be a solid, fluid stream; and
 - (B) shall be applied at a pressure that does not cause excessive splashing.

D.9.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), before January 1, 2015, the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.9.3 Record Keeping Requirements

- (a) To document the compliance status with Condition D.9.2, Pursuant to 326 IAC 8-3-8(c)(2), before January 1, 2015, the following records shall be maintained for each purchase of cold cleaner degreaser solvent:
 - (1) The name and address of the solvent supplier.
 - (2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).
 - (3) The type of solvent purchased.
 - (4) The total volume of the solvent purchased.
 - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) 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
COMPLIANCE AND ENFORCEMENT BRANCH**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Halstab Division of Hammond Group, Inc.
Source Address: 3100 Michigan Street, Hammond, Indiana 46323
FESOP No.: F089-14167-00218

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: Halstab Division of Hammond Group, Inc.
Source Address: 3100 Michigan Street, Hammond, Indiana 46323
FESOP No.: F089-14167-00218

This form consists of 2 pages

Page 1 of 2

<p>___ 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 IDEM Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865, IDEM), 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: _____

**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: Halstab Division of Hammond Group, Inc.
Source Address: 3100 Michigan Street, Hammond, Indiana 46323
FESOP No.: F089-14167-00218

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B - Emergency Provisions satisfies the reporting requirements of paragraph (a) of Section C - General Reporting. 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".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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:	
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: _____

Appendix A: Emissions Calculations
Emission Summary

Source Name: Halstab, Division of Hammond Group, Inc
Source Location: 2323 165th Street, Hammond, IN 46320
Permit Number: 089-33545-00218
Permit Reviewer: Josiah Balogun
Date: 17-Sep-13

Uncontrolled Potential to Emit

	PM (tons/yr)	PM₁₀ (tons/yr)	PM_{2.5} (tons/yr)	SO₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	GHGs as CO₂e (tons/yr)	HAPs (tons/yr)
Emission Unit									
Stack ID S-1 Feedstock Handling System	0.0002	0.964	0	0	0	0	0	0	0.18
Stack ID S-2 Dispersion System	0.0001	0.35	0	0	0	0	0	0	0.13
Stack ID S-3 Acid Dispersion System	4.38	4.38	0	0	0	0	0	0	0
Stack ID S-8 Mill Line No.3	10.5	10.5	0	0	0	0	0	0	9.22
Stack ID S-17 Mixed Metals System	9.36	8.72	0	0	0	0	0	0	0.31
Stack ID S-18 Boiler No. 1	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1296	0.02
Stack ID S-19 Boiler No. 2	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1296	0.02
Stack ID S-20 Central Vacuum System	17.5	17.5	0	0	0	0	0	0	17.5
Stack ID S-20 No. 1 Dryer Vacuum System	109.5	109.5	0	0	0	0	0	0	90.2
Stack ID S-21 Dryer No.3	10.94	10.94	0	0	0	0	0	0	0.0048
Natural Gas Combustion Units	0.07	0.3	0.3	0.02	0.2	3.2	3.8	4537	0.07
Acid Tank	0	0	0	0	0.00014	0	0	0	0
Part Washers	0	0	0	0	0.03	0	0	0	0
Mis. Painting	0	0	0	0	0.0003	0	0	0	0
EF1 - EF14	0.03	0.03	0	0	0	0	0	0	0.024
Total Emissions	162.32	163.38	0.50	0.04	0.43	5.00	6.00	7129.00	117.68

Appendix A: Emissions Calculations
Emission Summary

Source Name: Halstab, Division of Hammond Group, Inc
Source Location: 2323 165th Street, Hammond, IN 46320
Permit Number: 089-33545-00218
Permit Reviewer: Josiah Balogun
Date: 17-Sep-13

Limited Potential to Emit

	PM (tons/yr)	PM₁₀ (tons/yr)	PM_{2.5} (tons/yr)	SO₂ (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NOx (tons/yr)	GHGs as CO₂e (tons/yr)	HAPs (tons/yr)
Emission Unit									
Stack ID S-1 Feedstock Handling System	0.0002	0.964	0	0	0	0	0	0	0.18
Stack ID S-2 Dispersion System	0.0001	0.35	0	0	0	0	0	0	0.13
Stack ID S-3 Acid Dispersion System	4.38	4.38	0	0	0	0	0	0	0
Stack ID S-8 Mill Line No.3	0	2.5	0	0	0	0	0	0	0.22
Stack ID S-17 Mixed Metals System	0	8.72	0	0	0	0	0	0	0.31
Stack ID S-18 Boiler No. 1	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1296	0.02
Stack ID S-19 Boiler No. 2	0.02	0.1	0.1	0.01	0.1	0.9	1.1	1296	0.02
Stack ID S-20 Central Vacuum System/No. 1 Dryer Vacuum System	0.127	0.127	0	0	0	0	0	0	0.105
Stack ID S-21 Dryer No.3	10.94	10.94	0.1	0.01	0.1	1.4	1.7	2074	0.31
Natural Gas Combustion Units	0.07	0.3	0.3	0.02	0.2	3.2	3.8	4537	0.07
Acid Tank	0	0	0	0	0.00014	0	0	0	0
Part Washers	0	0	0	0	0.03	0	0	0	0
Mis. Painting	0	0	0	0	0.0003	0	0	0	0
EF1 - EF14	0.03	0.03	0	0	0	0	0	0	0.024
Total Emissions	15.6	28.5	0.6	0.1	0.5	6.4	7.7	9203.0	1.4

Ventilator ID #	Average Air Flow (cfm)	Avg. Pb Concentration in Air (ug/m3)	Actual Operating Hours (hrs/yr)	Pb Emissions Rate			PM Emissions Rate		
				(lbs/hr)	(lbs/yr)	(Tons/yr)	(lbs/hr)	(lbs/yr)	(Tons/yr)
EF-1	2,800	0	Out of Service	0	0	0	0	0	0
EF-2	2,800	6	8760	6.293E-05	0.5512416	0.0002756	6.9919E-05	0.6124906	0.0003062
EF-3	4,000	7.25	0	0.0001086	0	0	0.000120694	0	0
EF-4	4,000	21.25	8760	0.0003184	2.7890198	0.0013945	0.000353757	3.0989109	0.0015495
EF-5	28,939	18.5	8760	0.0020053	17.566609	0.0087833	0.002228134	19.518454	0.0097592
EF-6	40,700	9.25	8760	0.0014101	12.352897	0.0061764	0.001566831	13.725441	0.0068627
EF-7	9,500	5	8760	0.0001779	1.5585699	0.0007793	0.000197688	1.7317443	0.0008659
EF-8	9,500	12	8760	0.000427	3.7405678	0.0018703	0.000474451	4.1561864	0.0020781
EF-9	5,000	0	8760	0	0	0	0	0	0
EF-10	28,000	12	8760	0.0012585	11.024831	0.0055124	0.00139838	12.249813	0.0061249
EF-11	400	0	8760	0	0	0	0	0	0
EF-12	500	0	8760	0	0	0	0	0	0
EF-13	2,200	5	8760	4.12E-05	0.360932	0.0001805	4.57803E-05	0.4010355	0.0002005
EF-14	2,200	0	0	0	0	0	0	0	0
Total:			Total:	0.0058101	49.944668	0.0249723	0.006455634	55.494075	0.027747

Pb Concentrations in Air from fugitive air sampling (2010). Actual operating hours from 2012
Hourly emissions rates calculated as follows:

$$\text{lbs/hr Pb} = \text{cfm} \times \text{ug/m}^3 \times 60 \text{ min/hr} \times 1 \text{ g/106 ug} \times 1 \text{ m}^3/35.315 \text{ ft}^3 \times 1 \text{ lb/453.59g}$$

Annual emission rates based on 8760 hr/yr.

PM emissions based on 90% lead content in material.

Acid Tank Emissions
JANUARY 2012 through DECEMBER 2012
HAMMOND GROUP, INC. - HALSTAB DIVISION
HAMMOND, INDIANA

Data from EPA TANKs 4.0 Program

Tank:	Storage
Height = 77"	
Diameter = 48"	
VOC:	Acetic Acid
Capacity (gal):	750
Throughput (gal):	<input type="text" value="58"/> (From Raw Material Inventory - Total Acetic Acid (lbs) (228 lbs) / (8.788 lbs/gal) (2012 Data)
Actual Emissions:	
lb/yr	0.27 (Emissions from Tanks program)
ton/yr	0.000135

PARTS WASHING EMISSIONS
 JANUARY 2012 through DECEMBER 2012
 HAMMOND GROUP, INC. - HALSTAB DIVISION
 HAMMOND, INDIANA

Parts Washer Information

Manufacturer Safety-Kleen
 Solvent Type Safety-Kleen Premium Solvent (petroleum naphtha)
 Reservoir Capacity 30 gallons
 Dimensions - (opening) 18" L x 24" W (3 sq ft)
 Drain - (opening) (4" diameter) 0.087 sq ft
 Operating Hours (hr/yr) 500 (Actual) (Figure used since 1997. Potential Actual)
 8760 (Potential)

Air Emissions Summary

	Emissions Factor (lbs/hr/ft2)	Potential Emissions		Actual Emissions	
		(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
VOCs	0.08	0.006978	0.030563	0.006978	0.001744

Emission Factor based on AP-42, Volume I, Table 4.6-2.

MISCELLANEOUS PAINTING EMISSIONS
 JANUARY 2012 through December 2012
 HAMMOND GROUP, INC. - HALSTAB DIVISION
 HAMMOND, INDIANA

Conservative quantity estimated.

Physical Data:

Paint type:	<u>Aerosol</u>		<u>Brush-on</u>		
Density (lb/gal):	6.69		9.09		
Volatile content (%):	77.04		50		
Solid content (%):	22.96		50		
Quantity used:	25 cans 2.34375 gallons		5 gallons		(Used since 1999 - A normal usage)
Overspray (%):	15.00		0.00		

Actual Annual Painting Emissions:

	<u>Aerosol</u>		<u>Brush-on</u>		<u>totals</u>	
Solvent Losses (lb/yr)	12.08	lb/yr	22.73	lb/yr	34.80	lb/yr
	0.01	ton/yr	0.01	ton/yr	0.02	ton/yr
Solid Losses (lb/yr)	0.54	lb/yr	0.00	lb/yr	0.54	lb/yr
	0.00027	ton/yr	0.00	ton/yr	0.00027	ton/yr

HALSTAB ACTUAL ANNUAL EMISSIONS: NATURAL GAS FIRED EQUIPMENT

2012 user inputs.

FUEL: NATURAL GAS									
EQUIPMENT	HEAT INPUT (MBTU/HR)	GAS USAGE* (SCF/YR)	ACTUAL ANNUAL EMISSIONS (LBS/YEAR)						
			PM	PM10	SO2	NOx	CO	VOC	HAPs
Boiler #1	2,500	1,800,235	3.4204	13.6818	1.0801	180.0235	151.2197	9.9013	3.4204
Boiler #2	2,500	1,800,235	3.4204	13.6818	1.0801	180.0235	151.2197	9.9013	3.4204
Dryer1 - Stage A	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Dryer 1 - Stage B	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Dryer No. 3**	2,000	1,440,188	2.7364	10.9454	0.8641	144.0188	120.9758	7.9210	2.7364
Dryer No. 5 (Deleted 2/23/12)	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Evaporator	2,500	1,800,235	3.4204	13.6818	1.0801	180.0235	151.2197	9.9013	3.4204
HVAC 1	275	198,026	0.3762	1.5050	0.1188	19.8026	16.6342	1.0891	0.3762
HVAC 2	275	198,026	0.3762	1.5050	0.1188	19.8026	16.6342	1.0891	0.3762
HV 1	1,780	1,281,767	2.4354	9.7414	0.7691	128.1767	107.6684	7.0497	2.4354
HV 2	216	155,540	0.2955	1.1821	0.0933	15.5540	13.0654	0.8555	0.2955
Unit Heater 1	300	216,028	0.4105	1.6418	0.1296	21.6028	18.1464	1.1882	0.4105
Unit Heater 3	175	126,016	0.2394	0.9577	0.0756	12.6016	10.5854	0.6931	0.2394
Unit Heater 4	50	36,005	0.0684	0.2736	0.0216	3.6005	3.0244	0.1980	0.0684
Unit Heater 6	400	288,038	0.5473	2.1891	0.1728	28.8038	24.1952	1.5842	0.5473
Unit Heater 7	50	36,005	0.0684	0.2736	0.0216	3.6005	3.0244	0.1980	0.0684
Unit Heater 8	300	216,028	0.4105	1.6418	0.1296	21.6028	18.1464	1.1882	0.4105
Unit Heater 9	200	144,019	0.2736	1.0945	0.0864	14.4019	12.0976	0.7921	0.2736
Unit Heater 10	200	144,019	0.2736	1.0945	0.0864	14.4019	12.0976	0.7921	0.2736
Unit Heater 11	200	144,019	0.2736	1.0945	0.0864	14.4019	12.0976	0.7921	0.2736
Unit Heater 12	200	144,019	0.2736	1.0945	0.0864	14.4019	12.0976	0.7921	0.2736
Unit Heater 13	50	36,005	0.0684	0.2736	0.0216	3.6005	3.0244	0.1980	0.0684
Unit Heater 14	130	93,612	0.1779	0.7115	0.0562	9.3612	7.8634	0.5149	0.1779
Unit Heater 15	300	216,028	0.4105	1.6418	0.1296	21.6028	18.1464	1.1882	0.4105
Unit Heater 16	300	216,028	0.4105	1.6418	0.1296	21.6028	18.1464	1.1882	0.4105
Unit Heater 17	50	36,005	0.0684	0.2736	0.0216	3.6005	3.0244	0.1980	0.0684
Unit Heater 18	400	288,038	0.5473	2.1891	0.1728	28.8038	24.1952	1.5842	0.5473
Unit Heater 19	400	288,038	0.5473	2.1891	0.1728	28.8038	24.1952	1.5842	0.5473
TOTALS:	15,751	11,342,200	22	86	7	1,134	953	62	22
ANNUAL TOTAL IN TONS:			0.01	0.04	0.00	0.57	0.48	0.03	0.01

* BASED ON DATA YEAR FUEL CONSUMPTION FUEL HEATING VALUE: 1,000 BTU/SCF

** THE DRYER HAS A MAXIMUM HEAT INPUT OF 4,000,000 BTU/HR; ALTHOUGH, TO PROPERLY ALLOCATE THE NATURAL GAS, DUE TO THE DRYER ONLY OPERATING HALF THE YEAR, A HEAT INPUT OF 2,000,000 BTU/HR IS USED.

*** Based on 8,760 hr/yr

@ FUGITIVE IN NATURE, NO SPECIFIC EXHAUST STACK

AP-42 Emission Factors (lbs/MMCF) (11/1/11 Modified to correlate with those used by IDEM Permit writers

Particulate Matter (PM):	1.9
PM10	7.6
Sulfur Dioxide (SO2):	0.6
Nitrogen Oxides (NOx):	100
Carbon Monoxide (CO):	84
Volatile Organics (VOC):	5.5
Total HAPs	1.9

Methodology

All Emission factors are based on normal firing

MMBtu = 1,000,000 Btu

MMCF - 1,000,000 Cubic Feet of Gas

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

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-0:

(AP-42 Supplement D 3/98)

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

The five highest organic and metal HAPs emission factors are provided above. (Benzene, Dichlorobenzene, Formaldehyde, Hexane, Toluene, Lead Cadmium, Chromium, Manganese and Nickel)

Additional HAPs emission factors are available in AP-42, Chapter 1.4

STACK CHARACTERISTICS					GHG Emissions			GHG Emissions		
STACK HEIGHT	DIA	FLOW	TEMP		ACTUAL ANNUAL EMISSIONS (T/YEAR)			POTENTIAL ANNUAL EMISSIONS (T/YEAR)***		
(ft)	(ft)	(acfm)	(F)		CO2	N2O	CH4	CO2	N2O	CH4
S-18	43	1	872	350	108.01	0.0020	0.0021	1,314.00	0.0241	0.0252
S-19	43	1	872	350	108.01	0.0020	0.0021	1,314.00	0.0241	0.0252
S-4	75	2	11000	220	-	-	-	-	-	-
S-4	75	2	11000	220	-	-	-	-	-	-
S-21	70	2	5100	160	86.41	0.0016	0.0017	1,051.20	0.0193	0.0201
S-22	1	1	1608	250	-	-	-	-	-	-
@	@	@	@	@	108.01	0.0020	0.0021	1,314.00	0.0241	0.0252
@	@	@	@	@	11.88	0.0002	0.0002	144.54	0.0026	0.0028
@	@	@	@	@	11.88	0.0002	0.0002	144.54	0.0026	0.0028
@	@	@	@	@	76.91	0.0014	0.0015	935.57	0.0172	0.0179
@	@	@	@	@	9.33	0.0002	0.0002	113.53	0.0021	0.0022
@	@	@	@	@	12.96	0.0002	0.0002	157.68	0.0029	0.0030
@	@	@	@	@	7.56	0.0001	0.0001	91.98	0.0017	0.0018
@	@	@	@	@	2.16	0.0000	0.0000	26.28	0.0005	0.0005
@	@	@	@	@	17.28	0.0003	0.0003	210.24	0.0039	0.0040
@	@	@	@	@	2.16	0.0000	0.0000	26.28	0.0005	0.0005
@	@	@	@	@	12.96	0.0002	0.0002	157.68	0.0029	0.0030
@	@	@	@	@	8.64	0.0002	0.0002	105.12	0.0019	0.0020
@	@	@	@	@	8.64	0.0002	0.0002	105.12	0.0019	0.0020
@	@	@	@	@	8.64	0.0002	0.0002	105.12	0.0019	0.0020
@	@	@	@	@	2.16	0.0000	0.0000	26.28	0.0005	0.0005
@	@	@	@	@	5.62	0.0001	0.0001	68.33	0.0013	0.0013
@	@	@	@	@	12.96	0.0002	0.0002	157.68	0.0029	0.0030
@	@	@	@	@	12.96	0.0002	0.0002	157.68	0.0029	0.0030
@	@	@	@	@	2.16	0.0000	0.0000	26.28	0.0005	0.0005
@	@	@	@	@	17.28	0.0003	0.0003	210.24	0.0039	0.0040
@	@	@	@	@	17.28	0.0003	0.0003	210.24	0.0039	0.0040

ANNUAL TOTAL (TONS)	681	0.01	0.01	8,278.73	0.15	0.16
ANNUAL TOTAL (TONS CO2 equivalents)	681	3.87	0.27	8,278.73	47.05	3.33
FACILITY TOTAL (TONS CO2e)			685			8,329

40 CFR Part 98: An emitter of GHGs, general stationary fuel combustion source.
 If the aggregate of the stationary fuel combustion sources at a facility is >=30 MMBtu/hand
 the facility emits more than 25,000 MT/yr of CO2e, reporting is required

40 CFR 98.33 Calculating GHG Emissions:
 CO2, CH4, and N2O (MT) = 1x10⁻³ * Fuel * HHV * EF
 Natural Gas: Fuel (cf); HHV = 1.028x10⁻³
 EF (kg/mmBtu): NG = 53.02; CH4 = 1.0x10⁻³; N2O = 1.0x10⁻⁴
 MT = 2204 lbs

IDEM Guidance:
 GHG (tons/yr) = EF (lbs/MMcf) x Potential Throughput (MMcf/yr) x ton/2,000 lb
 EF: CO2 = 120,000 lbs/MMcf
 CH4 = 2.3 lbs/MMcf
 N2O = 2.2 lbs/MMcf
 CO2e(to: CO2: 1
 CH4: 21
 N2O: 310

Major Source Threshold (Need to revise permit) = 100,000 Tons per year GHGs

Annual Throughput Info:		Halstab Calendar Year 2012	Comments
S-1	921,260	pounds	From plant via "EHS Info 20XX"
S-2	921,260	Throughput (lbs)	From Inventory Logs
S-3	-	Quantity of PA Used in Acid Dispersion System(lbs)	From Inventory Logs
S-4 (Dryer)	-	Throughput of Dryer (lbs) (No production in belt dryer during 20	From Monthly Tracking
S-4 (NG)	0.000	Gas Usage (mmcuft)	From Gas Bills & NG spreadsheet
S-5	-	Throughput of Rework (lbs)	From Inventory Logs
S-6	0	Throughput (lbs)	No. 1 Dryer + Rework
S-7	444,267	Throughput (lbs)	SFD + Rework split between S-7 & S-8
S-8	444,267	Throughput (lbs)	SFD + Rework split between S-7 & S-8
S-9	296,178	Throughput (lbs)	SFD + Rework split between S-9, 10, & 11
S-10	296,178	Throughput (lbs)	SFD + Rework split between S-9, 10, & 11
S-11	296,178	Throughput (lbs)	SFD + Rework split between S-9, 10, & 11
S-12 (Inactive 12/12/12)	22,357	Throughput (lbs)	Dump Log
S-13	22,357	Throughput (lbs)	Same as Dump
S-14	122,814	Throughput (lbs)	Same as Packing (Conservative)
S-15 (Inactive 12/12/12)	122,814	Throughput (lbs)	Same as Packing (Conservative)
S-16	122,814	Throughput (lbs)	Same as Packing (Conservative)
S-17 (Bulk/Bag Pack - lead material) (Inactive 12/12/12)	122,814	Throughput (lbs) (Bulk hopper 390 & Bag hoppers 360 & 361)	From plant via "EHS Info 20XX"
S-17 (Bulk/Bag Pack - non-lead material) (Inactive 12/12/12)	-	Throughput (lbs) (Bulk hopper 390 & Bag hoppers 360 & 361)	From Inventory Logs
S-17 (Mixed Metals)	4,270,803	Throughput (lbs)	From plant via "EHS Info 20XX"
S-17 (Portable Packers - lead material)	-	Throughput (lbs)	From Inventory Logs
S-17 (Portable Packers - non-lead material) (Inactive 12/12/12)	-	Throughput (lbs)	From Inventory Logs
S-18	1.800	Gas Usage (mmcuft)	From Gas Bills & NG spreadsheet
S-19	1.800	Gas Usage (mmcuft)	From Gas Bills & NG spreadsheet
S-21 (Dryer)	874,531	Throughput of Dryer (lbs)	From Monthly Tracking
S-21 (NG)	1.440	Gas Usage (mmcuft)	From Gas Bills & NG spreadsheet
S-21 (Rework)	14,003	Throughput of Rework (lbs)	From plant via "EHS Info 20XX"
Antimony Oxide	-	Raw Used	From SARA spreadsheet
S-22 (Dryer) (Deleted 2/23/12)	-	Throughput of Dryer (lbs)	From plant via "EHS Info 20XX"
S-22 (NG) (Deleted 2/23/12)	0.000	Gas Usage (mmcuft)	From Gas Bills & NG spreadsheet
E-mail Items needed for Halstab: (Calendar Year)			
Update of SARA 313 spreadsheet for all chemicals highlighted to Jim Garza. (phthalic anhydride, barium, zinc, antimony oxide, and acetic acid used).			
Operating Hours for ventilator fans (EF-1 through EF-14) from Jim Garza.			
Pb concentrations for ventilator fans (EF-1 through EF-14) from Enviro-Data.			
Production from Jim Garza: throughput and rework for SFD, pounds for each of bag, bulk, and mixed metals packing, throughput for Surecure, material dumped in raw material dump station, and quantity of litharge received from HLP.			
Gas Usage: Account #629-140-008-7 from Accounting.			

Company Name: Halstab Division of Hammond Group, Inc. (HGI)

4/27/05: Modifcontrols to reflect process controls.

Address: 3100 Michigan Street, Hammond, Indiana 46323

5/23/06: Updated S-22 for Dyer No. 5 System
7/11/2007: Updated S-22 calculations as per 5/30/07 ST
5/2/08: S-12, S-15, & S-17 ST results
4/19/10: S-7 (11/29/05) ST results.
5/19/10: S-8 (5/10) ST results entered

Calculations By: Jean Zig

NOTES

EF: EMISSION FACTOR MDR: MAXIMUM DESIGN RATE
CE: CONTROL EFFICIENCY MDC: MAXIMUM DESIGN CAPACITY
For purposes of the Emissions Estimation: CE: Baghouse - 95%; Baghouse w/ Laminated Bags - 99%; HEPA - 99.2% (rated at 99.97 but reduced due to small particle size as determined by IES
Overall CE: 99.96% baghouse & HEPA; 99.99% for baghouse w/ laminated bags & HEPA.

STACK ID S-1 (Trivial Activity)

Unit ID: Feedstock Handling System MDR (T produced/hr): 25 STACK ID (DIAM-HEIGHT) (0.7: 65)
Stack #13, Group #013, Process #1, Abatement #13 YEARLY PROD (T/yr): 461 FLOWRATE (ACFM) 878
CNTRL DEV: HEPA Ts(°F): 109
Process Controls: Bin Vent Filter

Table with columns: POLLUTANT, EFLB(T), CE (%), BEFORE CONTROLS (lbs/hr, (lbs/day), (TPY)), AFTER CONTROLS (lbs/hr, (TPY), (gr/dscf)), PERMIT LIMIT (lbs/hr, (TPY)), 2012 Actual (TPY) (BEFORE CONTROLS, AFTER CONTROLS). Rows include PM, PM10, SOx, NOx, VOC, CO, LEAD.

Compliance Test performed on 7/20 & 21/98: Pb Results = 0.0000427 lbs/hr; Production = 24,627 TPH
EF (before controls) = 0.000217 lbs/ton. Pb Content 92.8%
Control Equipment is HEPA. Bin vent filters are considered part of process for purposes of emissions calculation.
Bin Vent Filter, Seneca, Reverse Jet Air Pulse Cleaning Unit with 49, eight (8) foot long laminated type filter bags on wire support cages & HEF
HEPA installed 1/18/96
2/5/99: SIP Revision effective. Pb limit changed from 1.000 to 0.04 lbs/hr. Quarterly op hr limitations eliminated
3/24/99: Submitted exemption notification for S1/S2 mod: Weigh Hopper draft to S1

STACK ID S-2 (Trivial Activity)

Unit ID: Dispersion System MDR (T produced/hr): 8 STACK ID (DIAM-HEIGHT) (0.67: 65)
Stack #18, Group #018, Process #1, Abatement #2&3: YEARLY PROD (T/yr): 461 FLOWRATE (ACFM) 400
CNTRL DEV: Baghouse & HEPA Ts(°F): 70

Table with columns: POLLUTANT, EFLB(T), CE (%), BEFORE CONTROLS (lbs/hr, (lbs/day), (TPY)), AFTER CONTROLS (lbs/hr, (TPY), (gr/dscf)), PERMIT LIMIT (lbs/hr, (TPY)), 2012 Actual (TPY) (BEFORE CONTROLS, AFTER CONTROLS). Rows include PM, PM10, SOx, NOx, VOC, CO, LEAD.

Compliance Test performed on 5-1 on 7/20 & 21/98 applied to this unit: Pb Results = 0.0000427 lbs/hr; Production = 24,627 TPH
EF (before controls) = 0.000217 lbs/ton. Pb Content 92.8%
Control Equipment is Filter No. 115 with (1) Seneca, Reverse Jet Air Pulse Cleaning Unit with 20, eight (8) foot long polypropylene type bag filters on wire support cages & HEI
HEPA installed 3/96
2/16/96: Weigh tank tie-in to S-2
2/5/99: SIP Revision effective. Pb limit changed from 0.08 to 0.03 lbs/h
3/24/99: Submitted exemption notification for S1/S2 mod: Weigh Hopper draft to S1

STACK ID S-3 (Insignificant Activity)

Unit ID: Acid Dispersion System MDR (T produced/hr): 1 STACK ID (DIAM-HEIGHT) (0.50: 65)
Stack #19, Group #019, Process #1 YEARLY PROD (T/yr): 0 FLOWRATE (ACFM) 400
CNTRL DEV: None Ts(°F): 70

Table with columns: POLLUTANT, EFLB(T), CE (%), BEFORE CONTROLS (lbs/hr, (lbs/day), (TPY)), AFTER CONTROLS (lbs/hr, (TPY), (gr/dscf)), PERMIT LIMIT (lbs/hr, (TPY)), 2012 Actual (TPY) (BEFORE CONTROLS, AFTER CONTROLS). Rows include PM, PM10, SOx, NOx, VOC, CO, LEAD.

As per previous CP application, loading to the baghouse is 5 lbs/10,000 lbs (equivalent to 1 lb/ton)
PM: 326 IAC 6.8
PM10: 2-8-4

STACK ID S-8

Unit ID: Mill Line No. 3 MDR (T produced/hr): 1.49 STACK ID (DIAM-HEIGHT) (1.20: 75)
Stack #5, Group #003, Process #1, Abatement #3&23 YEARLY PROD (T/yr): 222 FLOWRATE (ACFM) 1716
CNTRL DEV: Baghouse & HEPA Ts(°F): 118

Table with columns: POLLUTANT, EFLB(T), CE (%), BEFORE CONTROLS (lbs/hr, (lbs/day), (TPY)), AFTER CONTROLS (lbs/hr, (TPY), (gr/dscf)), PERMIT LIMIT (lbs/hr, (TPY)), 2012 Actual (TPY) (BEFORE CONTROLS, AFTER CONTROLS). Rows include PM, PM10, SOx, NOx, VOC, CO, LEAD.

Compliance Test performed on 5/5/10: Pb Results = 0.0002 lbs/hr; Production = 1,413,371 PH
EF (before controls) = 1.409940078 lbs/ton. Pb Content of White Lead processed 87.7%
Control Equipment is Filter No. 247 with (1) Seneca, Reverse Jet Air Pulse Cleaning Unit with (144), eight (8) foot long Nomex type bag filters on wire support cage
HEPA installed 8/15/97. (1997 ES does not reflect HEPA)
2/5/99: SIP Revision effective. Pb limit changed from 0.120 to 0.05 lbs/h
6/29/99: Added SFD Rework Station

STACK ID S-17

Unit ID: Mixed Metals System MDR (T produced/hr): 3.3 STACK ID (DIAM-HEIGHT) (2.00: 75)
Process Controls: The surge hopper is equipped with a Bin Vent Filter #91 YEARLY PROD (T/yr): 2,135 FLOWRATE (ACFM) 3292
CNTRL DEV: Bag Filter #430 followed by a HEPA Ts(°F): 82
Stack #7, Group #7, Process #2 (Added to 1998 STEPs)

Table with columns: POLLUTANT, EFLB(T), CE (%), BEFORE CONTROLS (lbs/hr, (lbs/day), (TPY)), AFTER CONTROLS (lbs/hr, (TPY), (gr/dscf)), PERMIT LIMIT (lbs/hr, (TPY)), 2012 Actual (TPY) (BEFORE CONTROLS, AFTER CONTROLS). Rows include PM, PM10, SOx, NOx, VOC, CO, LEAD.

HAPs content of mixed metals material is less than 1%. HAPs include: cadmium compounds, lead compounds, & polycyclic organic mat
Worst-case scenario would be HAPs (lead) content equivalent to Bulk/Bag Packing Station
5/30/97: Construction of MM System
2/10/99: Discussion w/ Frank Pariso - Line for packing regular leaded stabilizer has been eliminated
2/5/99: SIP Revision effective. Pb limit changed from 0.100 to 0.07 lbs/h

Explanation of Emission Factor Calculations:

Compliance Test Performed on 10/6/98: Pb Emission Rate 0.0004 lbs/hr.

Unit ID	Percentage of Total Dust Load (%)	Control Efficiency (%)	Throughput During ST (TPH)	Uncontrolled		Percentage of Total Lead Load (%)
				(2) New Pb EF (lbs/ton)	(3) New PM EF (lbs/ton)	
Bag/Bulk Pack	45	99.99	7,5000	0.480	0.583	90.0
Mixed Metals	50	99.99	4.0000	0.000	0.648	0
Portable	5	99.99	0.3938	1.016	1.234	10.0
Totals:	100					100

- (1) Equivalent Dust Load was calculated by: Previous Dust Load Factor x Avg. Hourly Process Rate
- (2) New Pb EF calculated by: Percentage of Total Dust Loading x Measured emission rate / Avg. Production Rate
- (3) New PM EF calculated using Pb EF and % Pb content (H-10 = 82.34%)

STACK ID S-18 (Insignificant Activity)

Unit ID: S-18 Boiler No. 1 MDC (mmBtu/hr): 2.511 HEAT CONTENT (Btu/cft): 1.000 STACK ID (DIAM:HEIGHT) (1.00: 43)
 (Natural Gas Combustion Only) MDR (mmcf/hr): 0.0025 QTY BURNED (mmcf/yr): 1.80 FLOWRATE (ACFM) 872
 CNTRL DEV: None Ts(F): 350
 Stack #15, Group #015, Process #1

POLLUTANT	EF(lbs/mcf)	CE (%)	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		2012 Actual (TPY)	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)				
PM	1.9	0	0.0048	0.1145	0.0209	0.0048	0.0209	0.0010	N/A	N/A	0.0017	0.001710
PM10	7.6	0	0.0191	0.4580	0.0836	0.0191	0.0836	0.0039	0.171	0.749	0.0068	0.006841
SOx	0.6	0	0.0015	0.0362	0.0066	0.0015	0.0066	N/A	N/A	N/A	0.0005	0.000540
NOx	100	0	0.2511	6.0264	1.0998	0.2511	1.0998	N/A	N/A	N/A	0.0900	0.090012
VOC	5.5	0	0.0138	0.3315	0.0605	0.0138	0.0605	N/A	N/A	N/A	0.0050	0.004951
CO	84	0	0.2109	5.0622	0.9238	0.2109	0.9238	N/A	N/A	N/A	0.0756	0.075610
LEAD	0.0005	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.000000

PM10: 326 IAC 2-8-4
 PM: 326 IAC 6.8-1-2: 0.01 gr/dscf

STACK ID S-19 (Insignificant Activity)

Unit ID: S-19 Boiler No. 2 MDC (mmBtu/hr): 2.511 HEAT CONTENT (Btu/cft): 1.000 STACK ID (DIAM:HEIGHT) (1.00: 43)
 (Natural Gas Combustion Only) MDR (mmcf/hr): 0.0025 QTY BURNED (mmcf/yr): 1.80 FLOWRATE (ACFM) 872
 CNTRL DEV: None Ts(F): 350
 Stack #14, Group #014, Process #1

POLLUTANT	EF(lbs/mcf)	CE (%)	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		2012 Actual (TPY)	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)				
PM	1.9	0	0.0048	0.1145	0.0209	0.0048	0.0209	0.0010	N/A	N/A	0.0017	0.001710
PM10	7.6	0	0.0191	0.4580	0.0836	0.0191	0.0836	0.0039	0.171	0.749	0.0068	0.006841
SOx	0.6	0	0.0015	0.0362	0.0066	0.0015	0.0066	N/A	N/A	N/A	0.0005	0.000540
NOx	100	0	0.2511	6.0264	1.0998	0.2511	1.0998	N/A	N/A	N/A	0.0900	0.090012
VOC	5.5	0	0.0138	0.3315	0.0605	0.0138	0.0605	N/A	N/A	N/A	0.0050	0.004951
CO	84	0	0.2109	5.0622	0.9238	0.2109	0.9238	N/A	N/A	N/A	0.0756	0.075610
LEAD	0.0005	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.000000

PM10: 326 IAC 2-8-4
 PM: 326 IAC 6.8-1-2: 0.01 gr/dscf

STACK ID S-20 (Trivial Activity)

Unit ID: Central Vacuum System MDR (T produced/hr): 0.002 STACK ID (DIAM:HEIGHT) (0.83: 75)
 YEARLY PROD (T/yr): 18 FLOWRATE (ACFM) 880
 CNTRL DEV: Bin Vent Filter (Part of Process) (Yearly is MDR) Ts(F): 70
 Deleted from 1997 ES (trivial)
 Deleted from 1998 ES (trivial)

POLLUTANT	EF(lb/1)	CE (%)	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		2012 Actual (TPY)	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)				
PM	2000	0	4.0000	96.0000	17.5200	4.0000	17.5200	0.5303			18.0000	18.000000
PM10	2000	0	4.0000	96.0000	17.5200	4.0000	17.5200	0.5303			18.0000	18.000000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
VOC	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
LEAD	1646.8	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000

Control Equipment is Highhouse No. 44 with one Flex-Kleen, Reverse Jet Air Pulse Cleaning Unit with 30, seven 7 foot long laminated type bag filters on wire support ca
 Listed Trivial: 326 IAC 2-7-1(40)(G)(I)
 MDR = 18/8760 = 0.002 TPH

Unit ID: No. 1 Dryer Vacuum System MDR (T produced/hr): 0.0125 STACK ID (DIAM:HEIGHT) Vent into the Building
 YEARLY PROD (T/yr): 0.00 FLOWRATE (ACFM) N/A
 CNTRL DEV: Bin Vent Filter (Part of Process) Ts(F): Ambient

POLLUTANT	EF(lb/1)	CE (%)	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		2012 Actual (TPY)	
			BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)				
PM	2000	0	25.0000	600.0000	109.5000	25.0000	109.5000	#VALUE!			0.0000	0.000000
PM10	2000	0	25.0000	600.0000	109.5000	25.0000	109.5000	#VALUE!			0.0000	0.000000
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
VOC	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000
LEAD	1646.8	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A			0.0000	0.000000

MDR = 600 lbs/day Pb content: 82.34%
 This unit will be used to facilitate cleanup in the area.
 Listed Trivial: 326 IAC 2-7-1(40)(G)(I)

Total: Unit ID (S-20)

POLLUTANT	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		2012 Actual (TPY)	
	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
	(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)				
PM	29.0000	696.0000	127.0200	29.0000	127.0200	#VALUE!	0.029	0.127	18.0000	18.0000
PM10	29.0000	696.0000	127.0200	29.0000	127.0200	#VALUE!	0.029	0.127	18.0000	18.0000
SOx	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	N/A	N/A	0.0000	0.0000
NOx	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	N/A	N/A	0.0000	0.0000
VOC	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	N/A	N/A	0.0000	0.0000
CO	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	N/A	N/A	0.0000	0.0000
LEAD	23.8786	573.0864	104.5883	23.8786	104.5883	#VALUE!	23.879	104.588	14.8212	14.8212

PM: 326 IAC 6.8
 PM10: 326 IAC 2-8-4
 Pb: 326 IAC 2-8-4

STACK ID S-21 (Insignificant Activity)

Unit ID: Dryer No. 3

MDR (T produced/hr): 2.5
YEARLY PROD (T/yr): 437

STACK ID (DIAM-HEIGHT) (2: 69)
FLOWRATE (ACFM) 12054
Ts(°F): 198

Stack #21, Group #020, Process #1, Abatement #22
CNTRL DEV: HEPA Filter
Process Controls: Aeropolise Baghouse

PERMITTED OPERATING HRS 8760 hr/yr

POLLUTANT	EF(LB/T)	CE (%)	POTENTIAL TO EMIT (PTE)					
			BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	0.066	0	0.1650	3.9600	0.7227	0.1650	0.7227	0.0020
PM10	0.066	0	0.1650	3.9600	0.7227	0.1650	0.7227	0.0020
SOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
NOx	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
VOC	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
CO	0	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
LEAD	0.000	0	0.0011	0.0261	0.0048	0.0011	0.0048	N/A

2012 Actual (TPY)	
BEFORE CONTROLS	AFTER CONTROLS
0.0144	0.014430
0.0144	0.014430
0.0000	0.000000
0.0000	0.000000
0.0000	0.000000
0.0000	0.000000
0.0001	0.000095

Compliance Test performed on 10/6/98: Pb Results = 0.0011 lbs/hr; Production = 2.53 TPH
EF (before controls) = 0.054 lbs/ton

Lead Content = 82.34 % by wt of product

Baghouse is considered part of the process. All process material is fed through the baghouse

Unit ID: Dryer No. 3

MDC (mmBtu/hr): 4
MDR (mmcf/yr): 0.0039

HEAT CONTENT (Btu/cft): 1000
QTY BURNED (mmcf/yr): 1.44

STACK ID (DIAM-HEIGHT) (2: 69)
FLOWRATE (ACFM) 12054
Ts(°F): 198

(Natural Gas Combustion)
Stack #21, Group #020, Process #2

PERMITTED OPERATING HRS 8760 hr/yr

POLLUTANT	EF(lbs/mmcf)	CE (%)	POTENTIAL TO EMIT (PTE)					
			BEFORE CONTROLS			AFTER CONTROLS		
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)
PM	1.9	0	0.0074	0.1778	0.0325	0.0074	0.0325	0.0001
PM10	7.6	0	0.0296	0.7114	0.1298	0.0296	0.1298	0.0004
SOx	0.6	0	0.0023	0.0562	0.0102	0.0023	0.0102	N/A
NOx	100	0	0.3900	9.3600	1.7082	0.3900	1.7082	N/A
VOC	5.5	0	0.0215	0.5148	0.0940	0.0215	0.0940	N/A
CO	84	0	0.3276	7.8624	1.4349	0.3276	1.4349	N/A
LEAD	0.0005	0	0.0000	0.0000	0.0000	0.0000	0.0000	N/A

2012 Actual (TPY)	
BEFORE CONTROLS	AFTER CONTROLS
0.0014	0.001368
0.0055	0.005473
0.0004	0.000432
0.0720	0.072009
0.0040	0.003961
0.0605	0.060488
0.0000	0.000000

Total: Unit ID: Dryer No. 3

POLLUTANT	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		2012 Actual (TPY)	
	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
	(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)				
PM	0.1724	4.1378	0.7552	0.1724	0.7552	0.0021	2.497	10.937	0.0158	0.0158
PM10	0.1946	4.6714	0.8525	0.1946	0.8525	0.0023	2.497	10.937	0.0199	0.0199
SOx	0.0023	0.0562	0.0102	0.0023	0.0102	#VALUE!	N/A	N/A	0.0004	0.0004
NOx	0.3900	9.3600	1.7082	0.3900	1.7082	#VALUE!	N/A	N/A	0.0720	0.0720
VOC	0.0215	0.5148	0.0940	0.0215	0.0940	#VALUE!	N/A	N/A	0.0040	0.0040
CO	0.3276	7.8624	1.4349	0.3276	1.4349	#VALUE!	N/A	N/A	0.0605	0.0605
LEAD	0.0011	0.0261	0.0048	0.0011	0.0048	#VALUE!	0.07	0.31	0.0001	0.0001

PM: 326 IAC 6.8
PM10: 326 IAC 2-8-4
Pb: 326 IAC 15-1-2(a)(7)
(CP #00091 issued 3/11/96)

3/11/96: CP for SFD installation

2/5/99: SIP Revision effective. Pb limit changed from 0.1 to 0.07 lbs/h

6/29/99: FESOP AA for MDR increase to 2.5 TPH and replacement of rework station

** SOURCE TOTALS: HALSTAB DIVISION OF HAMMOND GROUP, INC. (HGI) **

POLLUTANT	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		2012 Actual (TPY)	
	BEFORE CONTROLS			AFTER CONTROLS			(lbs/hr)	(TPY)	BEFORE CONTROLS	AFTER CONTROLS
	(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)				
PM	34.7200	833.2789	152.0734	34.7200	152.0734	#VALUE!	5.7460	16.4075	18.8893	18.8893
PM10	34.7708	834.4994	152.2961	34.7708	152.2961	#VALUE!	6.7280	29.4686	18.9037	18.9037
SOx	0.0054	0.1285	0.0234	0.0054	0.0234	#VALUE!	#VALUE!	#VALUE!	0.0015	0.0015
NOx	0.8922	21.4128	3.9078	0.8922	3.9078	#VALUE!	#VALUE!	#VALUE!	0.2520	0.2520
VOC	0.0491	1.1777	0.2149	0.0491	0.2149	#VALUE!	#VALUE!	#VALUE!	0.0139	0.0139
CO	0.7494	17.9868	3.2826	0.7494	3.2826	#VALUE!	#VALUE!	#VALUE!	0.2117	0.2117
LEAD	25.9850	623.6389	113.8141	25.9850	113.8141	#VALUE!	24.1386	105.727	14.9779	14.9779

**Appendix A: Emissions Calculations
Natural Gas Combustion Only (Boiler No.1)
MM BTU/HR <100**

Company Name: Halstab, Division of Hammond Group, Inc
Address City IN Zip: 2323 165th Street, Hammond, IN 46320
Permit Number: 089-33545-00218
Reviewer: Josiah Balogun
Date: 17-Sep-13

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
2.5	1020	21.5

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tc	0.02	0.1	0.1	0.01	1.1	0.1	0.9

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

PM2.5 emission factor is filterable and condensable PM2.5 combined.

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of

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 1-03-001

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020

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

HAPS Calculations

Emission Factor in lb/lv	HAPS - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
Potential Emission in tc	2.254E-05	1.288E-05	8.051E-04	1.932E-02	3.650E-05	2.020E-02

Emission Factor in lb/lv	HAPS - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
Potential Emission in tc	5.368E-06	1.181E-05	1.503E-05	4.079E-06	2.254E-05	5.883E-05
	Total HAPS					2.026E-02
	Worst HAP					1.932E-02

Methodology is the same as above

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter

Greenhouse Gas Calculations

Emission Factor in lb/lv	Greenhouse Gas		
	CO2	CH4	N2O
Potential Emission in tc	1,288	0.0	0.0
Summed Potential Emissions in tons/yr	1,288		
CO2e Total in tons/yr	1,296		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP

**Appendix A: Emissions Calculations
Natural Gas Combustion Only (Boiler No.2)
MM BTU/HR <100**

Company Name: Halstab, Division of Hammond Group, Inc
Address City IN Zip: 2323 165th Street, Hammond, IN 46320
Permit Number: 089-33545-00218
Reviewer: Josiah Balogun
Date: 17-Sep-13

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
2.5	1020	21.5

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons.	0.02	0.1	0.1	0.01	1.1	0.1	0.9

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation

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 1-03-00
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb

HAPS Calculations

Emission Factor in lb/MMc	HAPs - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons.	2.254E-05	1.288E-05	8.051E-04	1.932E-02	3.650E-05	2.020E-02

Emission Factor in lb/MMc	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons.	5.368E-06	1.181E-05	1.503E-05	4.079E-06	2.254E-05	5.883E-05
					Total HAPs	2.026E-02
					Worst HAP	1.932E-02

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.

Greenhouse Gas Calculations

Emission Factor in lb/MMc	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons.	1,288	0.0	0.0
Summed Potential Emissions in tons/yr	1,288		
CO2e Total in tons/yr	1,296		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP

**Appendix A: Emissions Calculations
Natural Gas Combustion Only (Total Natural Gas)
MM BTU/HR <100**

Company Name: Halstab, Division of Hammond Group, Inc
Address City IN Zip: 2323 165th Street, Hammond, IN 46320
Permit Number: 089-33545-00218
Reviewer: Josiah Balogun
Date: 17-Sep-13

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
8.8	1020	75.2

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.07	0.3	0.3	0.02	3.8	0.2	3.2

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 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/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

Emission Factor in lb/MMcf	HAPs - Organics					Total - Organics
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	7.891E-05	4.509E-05	2.818E-03	6.764E-02	1.278E-04	7.071E-02

Emission Factor in lb/MMcf	HAPs - Metals					Total - Metals
	Lead	Cadmium	Chromium	Manganese	Nickel	
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.879E-05	4.134E-05	5.261E-05	1.428E-05	7.891E-05	2.059E-04
	Total HAPs					7.092E-02
	Worst HAP					6.764E-02

Methodology is the same as above.

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

Greenhouse Gas Calculations

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	4,509	0.1	0.1
Summed Potential Emissions in tons/yr	4,510		
CO2e Total in tons/yr	4,537		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O

**Appendix A: Emissions Calculations
Natural Gas Combustion Only (Dryer)
MM BTU/HR <100**

Company Name: Halstab, Division of Hammond Group, Inc
Address City IN Zip: 2323 165th Street, Hammond, IN 46320
Permit Number: 089-33545-00218
Reviewer: Josiah Balogun
Date: 17-Sep-13

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
4.0	1020	34.4

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/yr	0.03	0.1	0.1	0.01	1.7	0.1	1.4

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 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/1,020 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

HAPS Calculations

Emission Factor in lb/MMcf	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	3.607E-05	2.061E-05	1.288E-03	3.092E-02	5.840E-05	3.232E-02

Emission Factor in lb/MMcf	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	8.588E-06	1.889E-05	2.405E-05	6.527E-06	3.607E-05	9.413E-05
	Total HAPs					3.242E-02
	Worst HAP					3.092E-02

Methodology is the same as above.

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

Greenhouse Gas Calculations

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	2,061	0.0	0.0
Summed Potential Emissions in tons/yr	2,061		
CO2e Total in tons/yr	2,074		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Jean Ziga
Halstab Division Of Hammond Group, Inc.
2323 165th St
Hammond, IN 46320

DATE: September 17, 2013

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

SUBJECT: Final Decision
FESOP
089-33545-00218

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:
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 6/13/2013

Mail Code 61-53

IDEM Staff	DPABST 9/17/2013 Halstab Division Of Hammond Group, Inc. 089-33545-00218 (Final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
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1		Jean Ziga Halstab Division Of Hammond Group, Inc. 2323 165th St Hammond IN 46320 (Source CAATS) (confirm delivery)										
2		Jean Ziga Environmental Coordinator Halstab Division Of Hammond Group, Inc. 2323 165th St Hammond IN 46320 (RO CAATS)										
3		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)										
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
5		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
6		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
7		Hammond City Council and Mayors Office 5925 Calumet Avenue Hammond IN 46320 (Local Official)										
8		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
9		Mark Coleman 107 Diana Road Portage IN 46368 (Affected Party)										
10		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
11		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
12		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
13		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
14		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
15		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										

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IDEM Staff	DPABST 9/17/2013 Halstab Division Of Hammond Group, Inc. 089-33545-00218 (Final)		
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY

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		Karen 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
2		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
3		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
4		Ron Novak Hammond Dept. of Environmental Management 5925 Calumnet Ave. Hammond IN 46320 (Local Official)										
5		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
6		Ryan Dave 939 Cornwallis Munster IN 46321 (Affected Party)										
7		Matt Mikus 409 Yellowstone Rd - Apt 1 Valparaiso IN 46385 (Affected Party)										
8												
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