

# ENVIRONMENT & HEALTH

Indiana Department of Environmental Management Office of Air Quality 100 North Senate Avenue, IGCN 1003 Indianapolis, IN 46204-2251

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# WAELZ SUSTAINABLE PRODUCTS, LLC – MUNCIE, INDIANA NEW SOURCE CONSTRUCTION PERMIT TITLE V APPLICATION

To Whom it May Concern:

Ramboll is submitting the enclosed new source construction permit Title V application to the Indiana Department of Environmental Management (IDEM) on behalf of our client, Waelz Sustainable Products, LLC (WSP), for their proposed facility in Muncie, Indiana.

WSP is proposing to construct a facility located at 5401 West Kilgore Avenue, Muncie, Delaware County, Indiana. WSP is submitting this construction permit application to IDEM prior to beginning construction of any emission unit, in accordance with Title 326 Air Pollution Control Division of the Indiana Administrative Code (326 IAC) 2-5.1-3.

Enclosed is one original application packet and one copy of the application. If you have any questions, please feel free to contact Mr. Craig Hogarth, Heritage Environmental Services, at (317) 486-2783 or me at (919) 765-8027.

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Date April 10, 2019

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Yours sincerely

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Prepared for Waelz Sustainable Products, LLC Muncie, IN

Prepared By Ramboll US Corporation

Project Number

1690010187

Intended for

**Indiana Department of Environmental Management** 

Date

April 2019

# WAELZ SUSTAINABLE PRODUCTS, LLC NEW SOURCE CONSTRUCTION PERMIT TITLE V APPLICATION



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#### INTRODUCTION 4

Waelz Sustainable Products, LLC (WSP) is proposing to construct a facility located at 5401 West Kilgore Avenue, Muncie, Delaware County, Indiana. The facility will use two Waelz Kilns (Kiln 1 and Kiln 2) to produce Waelz Zinc Oxide (WZO)1 and Waelz Iron Product (WIP) primarily from Electric Arc Furnace (EAF) dust generated from steel mini-mills.

The following summarizes the proposed equipment to be constructed at the facility:

- Two (2) Waelz Kilns (Kiln 1 and Kiln 2)2;
- One (1) Feed Dryer;
- Eight (8) Product Collectors and Baghouses associated with the kilns and process buildings;
- Nine (9) Bin Vent filters associated with the facility processes;
- Two (2) diesel-fired emergency generators rated at 2,000 horsepower (hp); and
- Several insignificant activities to include a 10,000-gallon diesel storage tank, water heaters, and space heaters.

The facility will not have a facility-wide potential to emit (PTE) greater than 250 tons per year for any pollutant, and thus will be classified as a minor source with respect to Prevention of Significant Deterioration (PSD). However, the facility will have a facility-wide PTE greater than the Title V major source thresholds, and thus will be classified as a Title V major source. As part of this application, WSP is requesting a combined kiln annual throughput limit of 360,000 tons per year (tpy), as well as a facility-wide PTE limit for lead (Pb) of 0.5 tpy. WSP proposes to demonstrate compliance with the facility-wide Pb limit via source testing of the kilns and feed dryer, as well as recordkeeping for material throughput of the applicable equipment.

WSP is submitting this new source construction Title V permit application to IDEM prior to beginning construction of any emission unit, in accordance with Title 326 Air Pollution Control Division of the Indiana Administrative Code (326 IAC) 2-5.1-3. The facility will be classified as a Major Source under the Title V Operating Permit program per 326 IAC 2-7-2. The IDEM permit application forms are included in Appendix A.

A description of the process is provided in Section 2 and methodologies used to quantify potential emissions are summarized in Section 3. Section 4 includes a detailed applicability analysis of both federal and state regulations.

<sup>&</sup>lt;sup>1</sup> WZO also may be referred to as Crude Zinc Oxide (CZO).

<sup>&</sup>lt;sup>2</sup> The new facility will be constructed in two phases, with Kiln 1 construction and operation occurring first, to be followed thereafter by Kiln 2.

# 2. FACILITY DESCRIPTION

The WSP facility in Muncie, Delaware County, Indiana will use two Waelz Kilns (Kiln 1 and Kiln 2) to produce WZO and WIP primarily from EAF dust generated from steel mini-mills. The following sections describe the facility's primary operations. A site location map, site layout diagram, and process flow diagram are included in **Appendix B**.

## 2.1 Main Process Description

The majority of incoming raw material will be EAF dust, with a small amount of other zinc-bearing secondary materials for metals recovery. The incoming raw material is herein referred to as "EAF dust", as EAF dust will comprise approximately 90% of the incoming raw material. The material will be delivered by covered bottom-dump railcars or dump trucks and unloaded inside the Receiving Building (RB1), which will be maintained under negative pressure by a baghouse (RBBH1) with a design flow rate of 140,000 cubic feet per minute (cfm). Promptly upon receiving EAF dust, water will be added to the raw material to begin the conditioning and blending processes (i.e., the chemical reaction). When conditioning and blending are completed, the material will be mixed and blended for a homogenous mixture of zinc-bearing materials from all customers.

After blending, the material will be transferred by four surge hoppers (RM1 through RM4), a series of belt conveyors and a screw conveyor to the Pelletizing Building (PB1). Each surge hopper will be equipped with a bin vent filter (RMBV1 through RMBV4) with an exhaust flow rate of 3,145 cfm. In the Pelletizing Building, the conditioned EAF dust will be transferred to one of two cone pelletizers (CP1 and CP2) to create properly-sized pellets. Emissions from both cone pelletizers will be controlled by a 140,000 cfm baghouse (PBBH1). EAF dust pellets leaving either cone pelletizer will be transferred to a natural gas-fired feed dryer (DRY1) with a heat input capacity of 17 million British thermal units per hour (MMBtu/hr). The feed dryer, which will have emissions control from a 140,000 cfm baghouse (PBBH2), will remove excess moisture from the feed pellets. The baghouses for the cone pelletizers and feed dryer (PBBH1 and PBBH2, respectively) will also be used to maintain the Pelletizing Building under negative pressure. Following the dryer, the pellets will be transferred to a curing area in the Pellet Receiving Building prior to subsequent charging to the downstream kilns. The Pellet Receiving Building will not be maintained under negative pressure as the raw material will already in a pellet form that will not form dust.

A carbon source (e.g., metallurgical coke breeze, anthracite, petroleum coke) will be received by truck or railcar in the Carbon Building (CB1), which will be maintained under negative pressure by a 140,000 cfm baghouse (CBBH1). The material will be loaded into grating that falls into surge hoppers in the Pellet Receiving Building that will feed each kiln. The carbon source will be delivered by discharge chutes and mixed with the cured EAF pellets prior to introduction into kilns. This process will provide the necessary carbon to generate a reducing atmosphere in the material bed of the kiln.

The Waelz Kilns will be large rotating drums, approximately 180 feet long and up to 13.5 feet in diameter, each of which will be fired by a natural gas-fired 50 MMBtu/hr burner located at the material discharge end. Heated air flows from the burner (discharge) will end toward the feed end, countercurrent to the material flow. The primary feed material will be EAF dust and other zinc-bearing secondary materials. The kilns will also be fed spent baghouse filter media, maintenance shop wastes (i.e., dust, contaminated personal protective equipment, etc.), and miscellaneous EAF dust-bearing residuals from the site's operations for the recovery of their zinc value. The feed material will undergo a series of complex reduction and reoxidation reactions as it traverses the kiln. The oxidation reactions will be sufficiently exothermic as to provide the majority of the heat required by the process. The natural gas burners for the kilns will each have a large turn-down ratio and are only operated for limited durations at full fire, generally only at startup to begin the process. From

time to time, it will not be necessary to fire the burners at all for extended periods of operation. The maximum combined material throughput for the two kilns is 360,000 tons per year.

Two baghouses (TBBH1 and TBBH2), each 140,000 cfm, located in the Transition Buildings (TB1 and TB2) will be associated with the two Waelz Kilns, Kiln 1 and Kiln 2, respectively, to provide additional capture and control at the transition location kiln discharge points. These baghouses will provide redundant ventilation beyond that already provided by the kiln process draft.

Zinc oxide-rich dust will be carried by the kiln air flow toward the feed end and is then passed through a series of settling chambers. The heavier material, middling WZO, will settle out in this chamber and will be collected and returned pneumatically to the feed tube by bucket elevators creating a closed loop system.

The lighter material that passes through the settling chamber will be collected in two large product collectors: PC1 will be a baghouse with an exhaust flow rate of 200,000 cfm dedicated to Kiln 1, and PC2 will be a baghouse with an exhaust flow rate of 200,000 cfm dedicated to Kiln 2. The material collected in these product collectors will be the WZO product, which will be collected and sold as a final product. The WZO product will be transferred from the product collection baghouse to one of five final product silos, two of which will be used to transfer product to railcars or trucks (FP1 and FP2) and three of which will be used to package the product into supersacks (FP3 through FP5). Emissions from each silo will be controlled by a 3,145-cfm bin vent filter (FPBV1 through FPBV5).

The slag-like solids, WIP, that will exit the kilns at the discharge (burner) end will be very rich in iron (approximately 50 percent) and will leave the kilns at a temperature between 900 and 1,100 °C. This heated material will be transferred to a 100-foot-long rotary cooler, which will also be maintained under suction by the kiln exhaust system and controlled by the WZO product collectors (PC1 and PC2). Once cooled, the WIP will be transferred to the WIP Building (WB1) prior to sale as a product. The WIP Building will be maintained under negative pressure by the two Transition Building baghouses (TBBH1 and TBBH2).

#### **Ancillary Emitting Equipment** 2.2

The facility will operate two diesel-fired emergency generators, each with a rated capacity of 2,000 horsepower (hp). One emergency generator (EG1) will be used to provide emergency power to the two kilns, and the second emergency generator (EG2) will be used to allow the baghousecontrolled suction to be maintained on the two kilns and coolers during power outages. A single 10,000-gallon diesel fuel oil storage tank will be installed to provide fuel to both emergency generators.

Additionally, two natural gas-fired water heaters and three natural gas-fired space heaters will be installed at the facility. Each of these heaters will have a heat input capacity of 0.5 MMBtu/hr or less.

# 3. EMISSIONS CALCULATIONS

Air emissions from the WSP facility will consist of particulate matter (PM); PM less than 10 microns in diameter (PM $_{10}$ ); PM less than 2.5 microns in diameter (PM $_{2.5}$ ); condensable PM; nitrogen oxides (NO $_{\rm X}$ ); carbon monoxide (CO); sulfur dioxide (SO $_{\rm 2}$ ); volatile organic compounds (VOCs); Pb; and hazardous air pollutants (HAPs). The following sections describe the methodologies used to determine the facility's potential emissions. Detailed emissions calculations are provided in **Appendix C**.

#### 3.1 Waelz Kilns

Potential annual emissions for all criteria pollutants, except for condensable PM, from the Waelz Kilns were estimated using stack test data from a similar facility. A contingency factor of 50 percent (%) was conservatively applied to the stack test data for all pollutants tested, except CO. The stack test data used for CO emissions was already assumed to represent the maximum potential to emit scenario for the WSP facility. Potential annual emissions for condensable PM from the Waelz Kilns was conservatively assumed to be 50% of the filterable PM portion. Total potential short term and annual emissions were calculated using the rated capacity of the kilns.

Potential annual emissions for all HAPs from the Waelz Kilns were estimated using data from either stack testing, mass balance, or laboratory analyses of the dust metal content, depending on the HAP, for a similar facility's most recent toxics release inventory (TRI) report. Potential HAPs from natural gas combustion by the burners on the Waelz kilns were estimated using the North Carolina's Department of Air Quality (NC DAQ) Natural Gas Combustion Spreadsheet and AP-42, Fifth Edition, Volume 1, Chapter 1.4 - Natural Gas Combustion, 07/98. The emission factors for acetaldehyde, acrolein, and ammonia were cited in the NC DAQ spreadsheet as being sourced from the USEPA's WebFIRE database.

Because both Waelz Kilns are nearly identical sources with similar air emissions, WSP is requesting a combined throughput limit such that the total annual throughput from both Waelz Kilns is limited to 360,000 tons per year. Note that the most recent stack tests (2018) from WSP's sister facility in Alabama showed emission rates of 0.06 pounds per ton of VOC, which would result in total VOC emissions for the year of significantly less than 25 tons.

# 3.2 Process Building Baghouses and Bin Vents

Multiple baghouses and bin vent filters will be used to control emissions of PM and Pb from the WSP facility's processes and product recovery. The Kiln 1 and 2 product collectors (PC1 and PC2) are utilized for collection of the WZO product and are therefore considered integral to the process. The bin vents (FPBV1 through FPBV5, RMBV1 through RMBV4) are utilized for product recovery during transfer of WZO and are therefore considered integral to the process. All other baghouses (RBBH1, PBBH1, PBBH2, TBBH1, and TBBH2) are not integral to the process but rather used for emission controls. WSP is requesting federally enforceable permit conditions that require the facility to operate and maintain the baghouses and bin vents discussed herein.

Potential annual emissions from the baghouses were based on an assumed post-control exit grain loading rate of  $3.00 \times 10^{-3}$  for filterable PM and  $4.50 \times 10^{-3}$  for condensable PM, if applicable. The exit grain loading for Pb was based on source test results from a similar facility in 2008 and represents a post-controlled emission rate. The results were scaled to account for the exhaust flow rate proposed for the WSP facility compared to the baghouses at the source tested facility. A maximum of 8,760 hours of operation per year was assumed for each baghouse.

Potential annual emissions from the bin vents were based on an assumed post-control exit grain loading rate of  $3.00 \times 10^{-3}$  for filterable PM. Emissions from the bin vent filters controlling potential lead-containing raw materials, including the bin vents associated with the WZO silos, are estimated using expected grain loading and a two percent lead content. Potential annual emissions for all HAPs

from the baghouses and bin vents were estimated using data from either stack testing, mass balance, or laboratory analyses of the dust metal content, depending on the HAP, for a similar facility. A maximum of 8,760 hours of operation per year was assumed for each bin vent.

#### **Feed Dryer** 3.3

Emissions from the feed dryer will result from products of natural gas combustion and EAF pellet throughput. The emissions will be controlled by baghouse PBBH2.

Emissions from the natural gas-fired dryer were estimated using emission factors from the U.S. Environmental Protection Agency's (EPA's) AP-42, Section 1.4, Natural Gas Combustion. Potential annual emissions were conservatively estimated based on the burner operating at its maximum heat input capacity continuously (i.e., 8,760 hours per year).

PM and Pb emissions from the EAF pellet throughput will be included with the PBBH2 baghouse emissions, described in the previous section.

#### **Emergency Generators** 3.4

Emissions from the two diesel-fired emergency generators (EG1 and EG2) were estimated using the emission factors from EPA's AP-42, Section 3.4, Large Stationary Diesel and All Stationary Dual-fuel Engines. The potential emission calculations utilized a maximum assumed sulfur content of the diesel fuel used of no more than 0.05 percent (500 ppm), and the total annual operation of each emergency generator was assumed to be no more than 500 hours per year.

Emissions for Pb were estimated using the emission factor for No. 2 fuel oil combustion from AP-42, Section 1.3, Fuel Oil Combustion. The Pb emission factor was converted from lb/1012 Btu to lb/hp-hr using an average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr, per AP-42, Section 3.3, Table 3.3-1.

#### Trivial and Insignificant Sources 3.5

Emissions from the fuel oil storage tank associated with the generators were estimated using EPA's TANKS 4.09D software, which incorporates the equations from AP-42, Section 7.1, Organic Liquid Storage Tanks. Calculation outputs from the TANKS software are included in Appendix C.

Emissions from the WSP facility's natural gas-fired water heaters and space heaters were calculated using emission factors from EPA's AP-42, Section 1.4, Natural Gas Combustion.

#### **Potential Emissions Summary** 3.6

A summary of the facility-wide potential emissions from the WSP facility is provided in Table 1.

Above PSD **PSD Major** Title V Major **Above Title** Facility-Wide Source Major V Major Source **Potential** Source Threshold **Pollutant** Source Threshold **Emissions** Threshold? Threshold? (tpy) (tpy) (tpy) No 250 Yes 100 CO 169.20 No 250 Ves 100 140.02  $NO_X$ No 250 Yes 100 176.02 PM (a) No 250 Yes 100 163.20 PM<sub>10</sub> No 250 Yes 100 160.78  $PM_{2.5}$ No 250 No 100 19.35 SO<sub>2</sub> No 250 No 100 17.35 VOC

Table 1. Facility-Wide Potential Emissions

	7	Ţ			
Pb	< 0.5	100	No	250	No
HAP	4.42	10 (single)/	No	250	
Notes:	A	25 (total)	140	250	No

<sup>(</sup>a) PM/PM<sub>10</sub>/PM<sub>2.5</sub> emissions represent total PM emissions.

Note that the EAF dust processed by the WSP facility will contain a variety of metals. Typical lead concentrations in the EAF dust will be approximately one percent, which has been in decline over the last decade, and typical lead concentrations in the WZO product will be approximately five percent. These concentrations will be inherent to the process. As part of this application, WSP is proposing a facility-wide Pb emission limit of 0.5 tpy.

## FEDERAL AND STATE REGULATORY APPLICABILITY 4.

The following sections outline applicability of the WSP facility to certain federal and state air regulations. Specifically, potentially applicable requirements under Title V of the Clean Air Act Amendments, New Source Review (NSR), New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), Compliance Assurance Monitoring (CAM), Chemical Accident Prevention Provisions, Protection of Stratospheric Ozone, and 326 IAC are discussed herein.

#### **Title V Operating Permits** 4.1

The Title V operating permits program, promulgated in 40 CFR 70, requires a facility to obtain a Title V operating permit if it has potential emissions of a regulated criteria pollutant exceeding 100 tpy, of any single HAP exceeding 10 tpy, or of the aggregate of all HAP exceeding 25 tpy. As shown in Table 1, the WSP facility will be a Title V major source with respect to PM,  $NO_{x}$  and COemissions. As such, WSP is submitting this application for an initial Title V Permit.

#### **New Source Review** 4.2

The federal NSR permitting program regulates emissions from major stationary sources of regulated air pollutants. The federal NSR is comprised of two elements: Nonattainment NSR (NNSR) and PSD. NNSR permitting is applicable in areas that have been designated as nonattainment for a regulated pollutant under the National Ambient Air Quality Standards (NAAQS). PSD permitting applies in areas that have been designated as attainment or unclassifiable. The WSP facility is located in Delaware County, which has been designated as attainment or unclassifiable for all criteria pollutants except for the area of the City of Muncie that is bounded to the North by West 26th Street/Hines Road, to the east by Cowan Road, to the south by West Fuson Road, and to the west by a line running south from the eastern edge of Victory Temple's driveway to South Hoyt Avenue and then along South Hoyt Avenue. This area is classified as nonattainment for the 2008 lead NAAQS. The site is located at 5401 West Kilgore Avenue (Appendix B), which is not within the lead nonattainment area.

The PSD major source threshold for each regulated criteria pollutant is 250 tpy, unless the facility falls under one of the listed 28 sources for which there is a lower PSD major source threshold.<sup>3</sup> Fugitive air emissions are not required to be included in the determination of a facility's PSD major source status unless the facility's operations are on the list of 28 source categories.4

The WSP facility will be categorized under Standard Industrial Classification (SIC) code 3341, Secondary Smelting and Refining of Nonferrous Metals. However, it has been long recognized within EPA guidance that SIC codes are not a determining factor for PSD industry classification, and despite its SIC code, WSP is not a "secondary metal production plant" for the purposes of PSD classification. The key factors in classifying the facility outside of this listed category are:

- The facility's raw material is not scrap metal;
- The facility does not involve any process steps where metal is managed in a molten state;
- The facility's products are not metal ingots or finished metal goods.

Facilities with the above-listed characteristics were intended by Congress and EPA to be included in the "secondary metal production plant" category for PSD applicability purposes. An early compilation of PSD policy determinations issued by EPA Region 4 in 1981 answered a question as to whether an iron foundry was a secondary metal production plant by stating that it would only fall under this classification "if it uses scrap metal to produce iron." This indicates support for looking at the raw materials as one of the determining factors.

<sup>3 40</sup> CFR 52.21(b)(1)(i)(a)

<sup>4 40</sup> CFR 52.21(b)(1)(iii)

The most comprehensive definition of secondary nonferrous metals processing provided by EPA appears in 40 CFR 63 Subpart TTTTTT, NESHAP for Area Sources: Secondary Nonferrous Metals Processing. The definitions governing applicability of this rule include the following: <sup>5</sup>

Secondary nonferrous metals processing facility means a brass and bronze ingot making, secondary magnesium processing, or secondary zinc processing plant that uses furnace melting operations to melt post-consumer nonferrous metal scrap to make products including bars, ingots, blocks, or metal powders.

Furnace melting operation means the collection of processes used to charge post-consumer nonferrous scrap material to a furnace, melt the material, and transfer the molten material to a forming medium.

WSP's operations will not include any "furnace melting operations," because there will be no use of post-consumer scrap, no melting of material in furnaces, and no transfers of molten material. While definitions of applicability for NESHAP and NSPS categories do not necessarily apply as governing definitions for PSD industry classification, it is well recognized in guidance that, absent other determinations or definitions, NESHAP and NSPS categorization can be an important factor in assessing PSD classification.

Provided the available guidance and past determinations, WSP's operations will not be "secondary metal production" for the purposes of PSD classification, and the appropriate major source threshold for PSD applicability purposes is 250 tpy. WSP's facility-wide potential emissions are less than the PSD major thresholds. As such, the WSP facility is a minor source with respect to the PSD permitting program.

# 4.3 New Source Performance Standards

NSPS, promulgated in 40 CFR 60, provide emissions standards for criteria pollutant emissions from new, modified, and reconstructed sources. The following sections discuss the potentially applicable NSPS standards to the WSP facility's operations.

# 4.3.1 40 CFR 60 Subpart A - General Provisions

NSPS Subpart A provides generally applicable requirements for testing, monitoring, notifications, and recordkeeping. Any source that is subject to another subpart under 40 CFR 60 is also subject to Subpart A, unless otherwise stated in the specific subpart.

- 4.3.2 40 CFR 60 Subpart Db Industrial-Commercial-Institutional Steam Generating Units

  NSPS Subpart Db is applicable to steam generating units constructed, modified, or reconstructed after June 19, 1984, with heat input capacities greater than 100 MMBtu/hr.<sup>6</sup> A steam generating unit is defined as a device that combusts any fuel and produces steam, heats water, or heats any heat transfer medium.<sup>7</sup> The feed dryer and the two Waelz Kilns will each have heat input capacities less than 100 MMBtu/hr. Further, the combustion sources will not be used to produce steam, heat water, or heat a transfer medium. Therefore, 40 CFR 60 Subpart Db is not applicable to the feed dryer or Waelz Kilns.
- 4.3.3 40 CFR 60 Subpart Dc Small Industrial-Commercial-Institutional Steam Generating Units

  NSPS Subpart Dc applies to steam generating units constructed, modified, or reconstructed after

  June 9, 1989, with a heat capacity between 10 MMBtu/hr and 100 MMBtu/hr.<sup>8</sup> The definition of a

  steam generating unit under the rule does not apply to the feed dryer or Waelz Kilns, as these units

<sup>&</sup>lt;sup>5</sup> 40 CFR 63.11472

<sup>6 40</sup> CFR 60.40b(a)

<sup>&</sup>lt;sup>7</sup> 40 CFR 60.41b

<sup>&</sup>lt;sup>8</sup> 40 CFR 60.40c(a)

will not be used to produce steam, heat water, or heat a transfer medium.9 As such, they are not subject to 40 CFR 60 Subpart Dc.

4.3.4 40 CFR 60 Subpart Kb - Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage

NSPS Subpart Kb applies to volatile organic liquid (VOL) storage tanks that were constructed after July 23, 1984, have a maximum storage capacity greater than or equal to 75 m<sup>3</sup> (19,813 gal), and meet the following criteria: 10

- The storage tank has a storage capacity greater than or equal to 75 m³ (19,813 gal) but less than 151 m³ (39,890 gal), and stores a VOL with a maximum true vapor pressure greater than or equal to 15.0 kPa (2.2 psia); or
- The storage tank has a storage capacity greater than or equal to 39,890 gal and stores a VOL with a maximum true vapor pressure greater than or equal to 3.5 kPa (0.51 psia).

The facility's only VOL storage tank will be a 10,000-gallon diesel fuel storage tank. This tank will not be subject to NSPS Subpart Kb, as the storage capacity will be less than 19,813 gal, and diesel has a maximum true vapor pressure less than 2.2 psia.

4.3.5 40 CFR 60 Subpart IIII - Stationary Compression Ignition Internal Combustion Engines Subpart IIII regulates stationary compression ignition (CI) internal combustion engines (ICEs) for which construction commenced after July 11, 2005, where the CI ICE is manufactured on or after July 1, 2006 for fire pump engines, or for which reconstruction or modification commences after July 11, 2005.11 The WSP facility will operate two stationary emergency CI ICEs (EG1 and EG2). Both of WSP's C1 ICEs to be purchased will have manufacture dates after July 2006. As such, NSPS Subpart IIII applies to the stationary emergency CI ICEs (EG1 and EG2).

The emergency generators will have a displacement less than 10L per cylinder and a maximum power rating less than 2,237 kW; therefore, the emergency generators must meet the emission standards for new nonroad CI engines in Table 1 to §89.112(a) and the opacity standards in §89.113 as required by §60.4205(b) and §60.4202(a)(2).

The emergency generators will be operated for no more than 100 hours per year for the purposes of maintenance and readiness checks [§60.4211(f)(2)]. Both engines will combust ultra-low sulfur diesel (15 parts per million [ppm]) as required by §60.4207(b) and specified in §80.510(b)(1)(i). WSP will operate and maintain the engines in accordance with the manufacturer's emission-related written instructions and will not change any emissions-related settings other than those that are permitted by the manufacturer [§60.4211(a)(1) and (2)]. WSP will purchase certified engines as required by §60.4211(c).

4.3.6 40 CFR 60 Subpart JJJJ - Stationary Spark Ignition Internal Combustion Engines NSPS Subpart JJJJ is applicable to new, modified, and reconstructed stationary spark ignition (SI) ICE. Each of WSP's generators will be categorized as stationary CI ICE. As such, NSPS Subpart JJJJ does not apply.

### National Emission Standards for Hazardous Air Pollutants 4.4

NESHAP, promulgated in 40 CFR 63, regulate emissions of HAP from specific source categories. A facility that has potential emissions exceeding 10 tpy for any individual HAP and/or emissions exceeding 25 tpy for the sum of all HAP is classified as a major source of HAP emissions. A facility that is not a major source of HAP is classified as an area source.

<sup>9 40</sup> CFR 60.41c

<sup>10 40</sup> CFR 60.110b(a)-(b)

<sup>11 40</sup> CFR 60.4200(a)(2)-(3)

The WSP facility is an area source as its potential HAP emissions will not exceed the major source thresholds. The following sections discuss the potentially applicable NESHAP standards to the WSP facility's operations.

# 4.4.1 40 CFR 63 Subpart A – General Provisions

NESHAP Subpart A provides generally applicable requirements for testing, monitoring, notifications, and recordkeeping. Any source that is subject to another subpart under 40 CFR 63 is also subject to Subpart A, unless otherwise stated in the specific subpart.

4.4.2 40 CFR 63 Subpart EEEE - Organic Liquids Distribution (Non-Gasoline)

NESHAP Subpart EEEE is applicable to organic liquids distribution operations, including organic liquid storage tanks, located at major sources of HAP emissions. 12 This regulation does not apply to the facility's diesel fuel storage tank, because the WSP facility is an area source of HAP emissions, and diesel fuel does not meet the definition of an organic liquid under this regulation. 13

4.4.3 40 CFR 63 Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines NESHAP Subpart ZZZZ, also known as the RICE MACT, regulates new and existing stationary reciprocating internal combustion engines (RICE) at major and area sources of HAP emissions. 14 For engines located at an area source of HAP emissions, the engine is considered existing if construction or reconstruction commenced before June 12, 2006. 15 Otherwise, it is considered new or reconstructed, respectively. 16

WSP will operate two stationary diesel-fired emergency generator engines (EG1 and EG2) that are affected sources under Subpart ZZZZ. Each of these engines will be constructed after 2006. As such, each engine will be categorized as a new RICE. The proposed emergency generators will be classified as a new emergency engine with a rating of more than 500 brake horsepower (bhp) located at an area source of HAP emissions. Therefore, the generators will be subject to limited requirements under Subpart ZZZZ, in accordance with §63.6590(b)(1)(i). The only requirements that apply to EG1 and EG2 will be the initial notification requirements of §63.6645(f).

- 4.4.4 40 CFR 63 Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters Subpart DDDDD (5D), also known as the Major Source Boiler MACT, applies to boilers and process heaters located at major sources of HAP emissions. 17 The WSP facility's feed dryer and Waelz Kilns do not meet the definitions of boilers or process heaters under this regulation, and they will be located at an area source of HAP emissions. Therefore, Subpart 5D does not apply.
- 4.4.5 40 CFR 63 Subpart JJJJJJ Industrial, Commercial, and Institutional Boilers Area Sources Subpart JJJJJJ (6J), also known as the Area Source Boiler GACT, applies to new and existing boilers at area sources of HAP emissions. <sup>18</sup> The feed dryer and Waelz Kilns do not meet the definition of boilers under this regulation. 19 Further, even if the sources were classified as boilers, the burners for each of these sources fire exclusively natural gas, and gas-fired boilers are exempt from the Boiler GACT.<sup>20</sup> As such, Subpart 6J does not apply.
- 4.4.6 40 CFR 63 Subpart VVVVVV Chemical Manufacturing Area Sources

Subpart VVVVVV (6V), Chemical Manufacturing Area Sources (CMAS), applies to new and existing chemical manufacturing process units (CMPUs) that use or produce at least one of the HAPs listed in

<sup>12 40</sup> CFR 63.2330

<sup>13 40</sup> CFR 63.2406

<sup>14 40</sup> CFR 63.6590(a)

<sup>15 40</sup> CFR 63.6590(a)(1)(iii)

<sup>16 40</sup> CFR 63.6590(a)(2)(iii), 40 CFR 63.5909a)(3)(iii)

<sup>17 40</sup> CFR 63.7485

<sup>18 40</sup> CFR 63.11194(a)

<sup>&</sup>lt;sup>19</sup> 40 CFR 63.11237

<sup>&</sup>lt;sup>20</sup> 40 CFR 63.11195(e)

Table 1 of the rule in concentrations exceeding the thresholds listed in 40 CFR 63.11494(a)(2) and that are located at an area source of HAPs.<sup>21</sup> The regulation defines a CMPU as "all process vessels, equipment, and activities necessary to operate a chemical manufacturing process that produces a material or family of materials described by North American Industry Classification System (NAICS) code 325."22

NAICS code 325180 refers to basic inorganic chemical manufacturing which includes listings for the manufacturing of zinc oxide and processing of zinc compounds "...not specified elsewhere by process manufacturing." In contrast, WSP will classify its operations as NAICS code 331492, which refers to secondary smelting, refining, and alloying of nonferrous metal and includes recovering and refining of nonferrous metals except aluminum and copper from scrap, which can include certain zinc products.

In 2013, WSP's sister facility, Steel Dust Recycling, LLC (SDR), requested and received a determination from EPA Region 4 confirming that SDR's operations are most accurately described by NAICS code 331492 and that NESHAP Subpart 6V does not apply. 23

4.4.7 40 CFR 63 Subpart TTTTTT - Secondary Nonferrous Metals Processing Area Sources NESHAP Subpart TTTTTT (6T) regulates secondary nonferrous metals processing facilities that are area sources of HAP emissions.<sup>24</sup> As discussed in Section 4.2 of this report, the definition of a nonferrous metals processing facility under this regulation is one that uses a furnace melting operation to melt post-consumer nonferrous metal scrap to make products including bars, ingots, blocks, or metal powders.<sup>25</sup> WSP's operations do not include any "furnace melting operations," because there is no use of post-consumer scrap, no melting of material in furnaces, and no transfers of molten material. As such, Subpart 6T does not apply.

# **Compliance Assurance Monitoring**

Compliance Assurance Monitoring (CAM) under 40 CFR 64 is applicable to emission units located at a Title V major source that use a control device to achieve compliance with an emission limit and whose pre-controlled emissions exceed the major source thresholds. A CAM plan is required to be submitted with the initial Title V operating permit application for emission units whose postcontrolled emissions exceed the major source thresholds (i.e., large pollutant-specific emission units [PSEU]).26 For emission units with post-controlled emissions below the major source thresholds, a CAM plan must be submitted with the first Title V permit renewal application.<sup>27</sup>

The post-controlled emissions for individual emission units located at the facility that use controls to meet emission limits will each be below the major source threshold and thus, if CAM is applicable, it will not need to be addressed until the first Title V permit renewal application.

#### **Chemical Accident Prevention Provisions** 4.6

The Chemical Accident Prevention Provisions, promulgated in 40 CFR 68, provide requirements for the development of risk management prevention (RMP) plans for regulated substances. Applicability to 40 CFR 68 requirements is based on the types and amounts of chemicals stored at a facility. WSP has reviewed the list of regulated substances in Subpart F and has determined that the WSP facility will not store any subject chemicals in quantities requiring an RMP. As such, the facility is not subject to the requirements of 40 CFR 68.

<sup>21 40</sup> CFR 63.11494(a)

<sup>22 40</sup> CFR 63.11494(b)

<sup>&</sup>lt;sup>23</sup> Letter from Carol L. Kemker (EPA Region 4) to Art Rowland (WSP) dated August 19, 2013.

<sup>24 40</sup> CFR 63.11462(a)

<sup>25 40</sup> CFR 63.11472

<sup>26 §64.5(</sup>a)

<sup>&</sup>lt;sup>27</sup> §64.5(b)

# 4.7 Protection of Stratospheric Ozone

The requirements in 40 CFR 82, Protection of Stratospheric Ozone, regulate the use of ozone depleting substances (ODS) and certain ODS substitutes. The only subpart under this rule that is potentially applicable to the facility's operations is Subpart F – Recycling and Emissions Reduction. WSP will comply with the applicable requirements under this regulation by servicing, maintaining, or repairing appliances that contain refrigerants which are Class I or Class II ODS or their non-exempt substitutes.

# 4.8 Indiana Administrative Code Title 326 – Air Pollution Control Division

326 IAC establishes regulations applicable at the emission unit level and at the facility level. The state regulations also include general requirements for facilities, such as the requirement to obtain construction and operating permits. Source-specific standards in 326 IAC that are potentially applicable to the WSP facility's emission units are discussed in the following sections.

# 4.8.1 326 IAC Article 5 - Opacity Regulations

This regulation limits opacity from process sources to no more than 40 percent in any six-minute averaging period and not more than 60 percent for more than a cumulative total of fifteen minutes in a six-hour period. <sup>28</sup> This limitation is applicable to the WSP facility's emission sources. Compliance will be demonstrated through the use of the WSP facility's baghouses.

# 4.8.2 326 IAC Article 6 – Particulate Rules

Article 6 limits particulate emissions from facility sources. The WSP facility is located in Delaware County, which does not have any county-specific PM emission limitations.

Rule 2 of this article provides a PM emission limitation for indirect heating sources. This is not applicable to the facility as all fuel-burning equipment will be direct-fired sources and thus do not fall under this definition.

Rule 3, also known as the process weight rule (PWR), limits PM emissions from manufacturing processes. This rule is applicable to all sources at the WSP facility. The following equations are used to determine the PM emission limits for WSP's manufacturing processes:

$$E = 4.10 \times P^{0.67}; for P < 30$$
  
$$E = 55.0 \times P^{0.11} - 40; for 30 \le P$$

where:

E = Pounds of PM emitted per hour (lb/hr)

P = Process weight rate (tons/hr)

The WSP facility will comply with this rule through the use of baghouses and bin vent filters.

Rule 4 provides standards for fugitive dust emissions and prohibits visible fugitive dust emissions beyond the property line. WSP will take reasonable precautions to limit its fugitive dust emissions.

Rule 5 outlines fugitive PM emission limitations. Additionally, 326 IAC 6-5-3 requires new sources of fugitive PM emissions requiring a permit to submit a fugitive PM emissions control plan or request for an exemption with their permit application.<sup>20</sup> As detailed in the PTE calculations in **Appendix C**, fugitive emissions at the facility are minimal and only associated with paved road dust. As such, as part of this application, the WSP facility is requesting an exemption from the requirement to submit a fugitive PM emissions control plan.

<sup>28 326</sup> IAC 5-1-2(1)

<sup>29 326</sup> IAC 6-5-3(b)

## 4.8.3 326 IAC Article 7 - Sulfur Dioxide Rules

This regulation limits the SO<sub>2</sub> emissions from facility sources. The WSP facility will be located in Delaware County, which does not have any county-specific SO<sub>2</sub> emission limitations. The requirements of 326 IAC 7 are only applicable to emission units with potential SO<sub>2</sub> emissions greater than 25 tpy or 10 tph. Because the WSP facility has SO<sub>2</sub> potential emissions less than those thresholds, Article 7 does not apply.

# 4.8.4 326 IAC Article 8 - Volatile Organic Compound Rules

This regulation establishes VOC emission standards from facility sources. Pursuant to 326 IAC 8-1-6, if the facility-wide VOC PTE is greater than 25 tpy, the facility shall reduce VOC emissions using Best Available Control Technology (BACT). The WSP facility's VOC emissions are less than 25 tpy, and therefore, the facility is not required to conduct a BACT analysis for VOC.

Under Rule 9 of this Article, WSP will be subject to the reporting and recordkeeping requirements for storage of VOCs in the proposed 10,000-gallon diesel storage tank.30 WSP expects to comply with this requirement.

# 4.8.5 326 IAC Article 9 - Carbon Monoxide Emission Rules

Article 9 establishes CO emission limits for all stationary sources that began operating after March 21, 1972. Pursuant to 326 IAC 9-1-1(b), sources that are subject to a CO emission limit in 40 CFR 60 or 40 CFR 63 are exempt from this rule.31 In addition, 326 IAC 9-1-2 lists specific sources that are subject to CO emission limits; WSP's operations are not one of the list facility types. Therefore, 326 IAC 9 does not apply to WSP.

# 4.8.6 326 IAC Article 10 - Nitrogen Oxides Rules

This regulation limits the  $\stackrel{-}{NO_X}$  emissions for specific source categories and counties. There are no county-specific NO<sub>X</sub> emission limits for sources in Delaware County. Further, the WSP facility will not operate any of the listed source categories in Rule 2 or Rule 3 that are subject to emission limitations. As such, 326 IAC 10 does not apply.

# 4.8.7 326 IAC Article 14 - Emissions Standards for Hazardous Air Pollutants

Article 14 provides HAP emission standards for specific sources. Because the WSP facility is not one of the sources listed in 326 IAC 14, this regulation does not apply.

## 4.8.8 326 IAC Article 15 - Lead Rules

Article 15 provides lead emission standards for specific sources. Because the WSP facility is not one of the sources listed in 326 IAC 15-1-2(a)(1), this regulation does not apply.

# 4.8.9 326 IAC Article 20 – Hazardous Air Pollutants

Article 20 provides HAP emission standards for specific sources. Rule 13.1 applies to secondary lead smelters. As discussed in Section 4.2 of this permit application, WSP's operations do not fall under the definition of secondary metal smelting facility. In addition, no other rules under Article 20 apply to WSP's operations. Thus, this regulation does not apply.

<sup>30 326</sup> IAC 8-9-1(a)

<sup>31 326</sup> IAC 9-1-1(b)

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New Source Construction Title V Permit Application

APPENDIX A IDEM PERMIT APPLICATION FORMS

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OAQ AIR PERMIT APPLICATION - FORMS CHECKLIST State Form 51607 (R5 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

10EM -- Office of Air Quality -- Permit. ... anch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

The purpose of this checklist is to help the applicant and IDEM, OAQ ensure that the air permit application packet is administratively complete. This checklist is a required form. NOTES:

- Check the appropriate box indicating whether each application form is applicable for the current permit application. The source must submit only those forms pertinent to the current permit application.
  - Place this checklist between the cover sheet and all subsequent forms and attachments that encompass your air permit application packet.

	***************************************	Part	Part A: General Source Data	ource Data
Applicable?	Form ID	Title of Form	State Form Number	When should this form be included in my application packet?
N D	COVER	Application Cover Sheet	50639	Include for every application, modification, and renewal, including source specific operating agreements (SSOA).
N	CHECKLIST	Forms Checklist	51607	Include for every application, modification, and renewal, including SSOA.
	GSD-01	Basic Source Level Information	50640	Include for every application, modification, and renewal, including SSOA.
N D	GSD-02	Plant Layout Diagram	51605	Include for every new source application, and modification.
N D	GSD-03	Process Flow Diagram	51599	Include one for every process covered by the application.
N D	GSD-04	Stack / Vent Information	51606	Include for every new source application, and modification.
N D	GSD-05	Emissions Unit Information	51610	Include for every process covered by the application.
N N	90-QSD	Particulate Emissions Summary	51612	Include if the process has particulate emissions (PM).
N □ X	GSD-07	Criteria Pollutant Emissions Summary	51602	Include if the process has criteria pollutant emissions.
	GSD-08	HAP Emissions Summary	51604	Include if the process has hazardous air pollutant emissions (HAP).
N D X	GSD-09	Summary of Additional Information	51611	Include if the additional information is included.
N N N	GSD-10	Insignificant Activities	51596	Include if there are unpermitted insignificant activities.
N N A	GSD-11	Alternative Operating Scenario	51601	Include if an AOS is requested.
N N A	GSD-12	Affidavit of Nonapplicability	51600	Include if the standard notification requirements do not apply.
N	GSD-13	Affidavit of Applicability	51603	Include if the standard notification requirements apply.
N □ X ⊠	GSD-14	Owners and Occupants Notified	51609	Include if the standard notification requirements apply.
N □	GSD-15	Government Officials Notified	51608	Include if the standard notification requirements apply.
N N	RENEWAL	Renewal Checklist	51755	Include with every operating permit renewal packet.

Indiana Department of Environmental Management Office of Air Quality State Form 51607 (R5 / 1-10)

		Pal	Part B: Process Information	nformation
Applicable?	Form ID	Title of Form	State Form	When should this form be included in my application packet?
N N	AEF-01	Alternate Emission Factor Request	51860	Submit if voluare reminesting to assume an incitation feature.
N □ X ⊠	PI-01	Miscellaneous Processes	52534	Include one form for each process for which those is a second or s
N	PI-02A	Combustion Unit Summary	52535	Include one form to summarize all combinations (1)
N D	PI-02B	Combustion: Boilers, Process Heaters, & Furnaces	52536	Include one form for each boiler, process heater, or furnace (unless SSOA)
N N	PI-02C	Combustion: Turbines & Internal Combustion Engines	52537	Include one form for each turbine or internal combustion engine (unless
N N N	PI-02D	Combustion: Incinerators & Combustors	52538	Include one form for each incinerator or combustor (unless SSOA).
N □ X	PI-02E	Combustion: Kilns	52539	Include one form for each kilo (unloss SSO4)
N \	PI-02F	Combustion: Fuel Use	52540	Include one form for each combination unit (united octobra)
N □ N	PI-02G	Combustion: Emission Factors	52541	Include one form for each combustion unit (unless SSOA).
N	PI-02H	Combustion: Federal Rule Applicability	52542	Include one form for each combustion unit (unless SSOA).
N	PI-03	Storage and Handling of Bulk Material	52543	Include if the process involves the stored and handling of half
N 🖾 L	PI-04	Asphalt Plants	52544	Include for each asphalt plant process (unless general pormits)
N 🖾 Y	PI-05	Brick / Clay Products	52545	Include for each brick and/or clay products process
N ⊠ N	PI-06	Electroplating Operations	52546	Include for each electronlation process.
N ⊠ N □	PI-07	Welding Operations	52547	Include for each welding process.
N ×	PI-08	Concrete Batchers	52548	Include for each concrete batcher (unless SO) 4)
N⊠ Y□	PI-09	Degreasing	52549	Include for each degreasing process (unless SSOA)
N N	PI-10	Dry Cleaners	52550	Include for each dry cleaning process
N 🛛	PI-11	Foundry Operations	52551	Include for each foundry process
N X N	PI-12	Grain Elevators	52552	Include for each grain elevator (unless SSOA)
N 🛭	Pl-13	Lime Manufacturing	52553	Include for each lime manufacturing process
N⊠ Y□	PI-14	Liquid Organic Compound Storage	52554 (doc)	Include if the process involves the storage of limit organic community
z X	PI-14ALT	Alternate version of Liquid Organic Compound Storage	52555 (xls)	Include if the process involves the storage of liquid organic compounds and there are several storage vessels
N ×	PI-15	Portland Cement Manufacturing	52556	Include for each Portland cement manufacturing process
N N	PI-16	Reinforced Plastics & Composites	52557	Include for each reinforced plastics and composites process.

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Include for each woodworking or plastic machining process (unless SSOA). Include for each surface coating or printing process (unless SSOA) Include if the process involves mineral processing (unless SSOA). When should this form be included in my application packet? Include for each blasting process (unless SSOA) Include for each soil remediation process. Include for each ethanol plant. Part B: Process Information State Form Number 52558 52559 52560 52570 52561 None Surface Coating & Printing Operations Ethanol Plants (Under Development) Woodworking / Plastic Machining Blasting Operations Mineral Processing Site Remediation Title of Form Form ID PI-19 State Form 51607 (R5 / 1-10) PI-17 PI-18 PI-20 PI-22 PI-21 z × z 🛛 Applicable? z z X z 🛛 z X <u>≻</u> <u></u> **≻**  $\vdash$ **≻**  $\stackrel{\mathsf{_{\scriptstyle \sim}}}{\Box}$ 

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Applicable?	Form ID	Title of Form	State Form Number	When should this form be included in iny application packet:
N □ ≻ ⊠	CE-01	Control Equipment Summary	51904	Include if add-on control equipment will be used for the process.
N D X	CE-02	Particulates - Baghouse / Fabric Filter	51953	Include for each baghouse or fabric filter.
N ⊠ ≻	CE-03	Particulates – Cyclone	52620	Include for each cyclone.
N ⊠ >> □	CE-04	Particulates – Electrostatic Precipitator	52621	Include for each electrostatic precipitator.
N	CE-05	Particulates – Wet Collector / Scrubber / Absorber	52622	Include for each wet collector, scrubber, or absorber.
<b>№</b> > □	CE-06	Organics – Flare / Oxidizer / Incinerator	52623	Include for each flare, oxidizer, or incinerator.
N N N	CE-07	Organics – Adsorbers	52624	Include for each adsorber.
N X	CE-08	Organics - Condenser	52625	Include for each condenser.
N ⊠ ≻	CE-09	Reduction Technology	52626	Include for each control device using reduction technology (e.g., SCR, SNCR).
N 🗵	CE-10	Miscellaneous Control Equipment	52436	Include one form for equipment for which there is not a specific CE form.

Indiana Department of Environmental Management Office of Air Quality State Form 51607 (R5 / 1-10)

		Part D: Complian	nce Determina	Compliance Determination for Bort 70 Sommon
Applicable?	Form ID	Title of Form	State Form Number	When should this form be included in my application packet?
N D X	CD-01	Emissions Unit Compliance Status	51861	Include for every Title V annication including modifications
N	CD-02	Compliance Plan by Applicable Requirement	51862	Include for every Title V application, including modifications.
N ⊠	CD-03	Compliance Plan by Emissions Unit	51863	Include for every Title V application including modifications
N \	CD-04	Compliance Schedule and Certification	51864	Include for every Title V annipation including modifications.
N N	ı	FED-03 Compliance Assurance Monitoring	53377	Include for every Title V annination including modifications.

		Part E: Besi	Available Cr	Part E: Best Available Control Tachnology
Applicable?	Form ID	Title of Form	State Form Number	When should this form be included in my application packet?
N N H	BACT-01	Analysis of Best Available Control Technology	None	Include for every BACT application.
N X	BACT-01a	Background Search: Existing BACT Determinations	None	Include for every BACT application.
N ⊠ N	BACT-01b	BACT-01b Cost/Economic Impact Analysis	None	Include for every BACT application
N N	BACT-02	Summary of Best Available Control Technology	None	Include for every BACT application.
N 🛭	PSD / E0-01	PSD / Emission Offset Checklist	None	Include for every PSD application and every NSR application that requires
				dilisaloli ollogis.

		Dark F	Part F. Emission Cradit Bonietny	odit Bonietw
Applicable?	Form ID	Title of Form	State Form Number	State Form When should this form be included in my application packet?
N N L	EC-01	Generation of Emission Credits	51783	Include if the modification results in emission roductions
N N L	EC-02	Transfer of Emission Credits	51784	Cultural whose control country is all sold reductions.
N N	EC-03	Use of Emission Credits	E470E	Cubility which level registered emission credits are transferred.
N⊠ Y□	EC-04	Emission Credit Request	51906	Submit if you are looking for aminimized of emission credits for offsets.
			2000	Capital in you are rooking for emission credits for offsets.

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		Part G: Pl	antwide App	Part G: Plantwide Applicability Limits
Applicable?	Form ID	Title of Form	State Form Number	State Form When should this form be included in my application packet?  Number
N X	PAI -01	Actuals Plantwide Applicability Limit	52451	Include if the modification results in emission reductions.
Z		Revised Plantwide Applicability Limit	52452	Submit whenever registered emission credits are transferred.
: Z	PAI -03	Plantwide Applicability Limit Renewal	52453	Include if the modification requires the use of emission credits for offsets.
2 N N N N N N N N N N N N N N N N N N N	PAL-04	Request for Termination of Plantwide	52454	Submit if you are looking for emission credits for offsets.
		Applicability Limit		

			Part H: Air Toxics	oxics
Applicable?	Form ID	Title of Form	State Form Number	State Form When should this form be included in my application packet?  Number
N A	FED-01	Summary of Federal Requirements – NSPS & NESHAP	53512	Include for each 40 CFR Part 60 NSPS, 40 CFR Part 61 NESHAP, and 40 CFR Part 63 NESHAP applicable to the process.
<u>v</u> □	FED-02	MACT Pre-Construction Review	51905	Include if constructing or modifying a process subject to a Part 63 NESHAP.
<b>2</b> ⊠	No Form ID	□ Y ⊠ N No Form ID MACT Initial Notification	None	This form is available on the U.S. EPA website. Completed notifications should be submitted to the IDEM Compliance Branch.

Applicable?         Form ID         Title of Form         State Form Number         When should this form be included in my Number           □ Y ⊠ N         INTERIM         Interim Approval         None         Submit if you are applying for interim op Submit if you are applying for or modifyling for or modifyling for interim op trading program.           □ Y ⊠ N         NOXBTP         NOX Budget Permit         None         Submit if you are a power plant or if you are a power plant or if you are applying for, modifying program.           □ Y ⊠ N         ACIDRAIN         Phase 2 Acid Rain Permit         None         Submit if you are applying for, modifying permit.			à	Part I: Special Permits	Permits
None None mit None None in Permit None	Applicable?			State Form Number	When should this form be included in my application packet?
Permit None Mone in Permit None	N N	INTERIM	Interim Approval	None	Submit if you are applying for interim operating approval.
NOXBTP NOx Budget Permit None ACIDRAIN Phase 2 Acid Rain Permit None		ASPHAI T	Asphalt General Permit	None	Submit if you are applying for or modifying an asphalt plant general permit.
None	N   N   N   N   N   N   N   N   N   N		NO <sub>x</sub> Budget Permit	None	Submit if you are a power plant or if you have opted in to the NOx budget trading program.
	N N N	ACIDRAIN	Phase 2 Acid Rain Permit	None	Submit if you are applying for, modifying, or renewing a Phase 2 Acid Rain permit.

		Fart J. Source Spe	scific Operat	: Source Specific Operating Agreements (SSOA)
Applicable?	? Form ID	Title of Form	State Form Number	When should this form be included in my application packet?
N X	I OA-01	Summary of Application and Existing Agreements	53438	Submit if you are applying for or modifying a Source Specific Operating
N N D	OA-02	Industrial / Commercial Surface Coating Operations -OR- Graphic Arts Operations (326) AC 2-9-2 5)	53439	Submit if you are applying for or modifying a SSOA for industrial or commercial surface coating operations not subject to 326 IAC 8-2, or
N X	OA-03	Surface Coating or Graphic Arts Operations (326 IAC 2-9.3)	53440	Submit if you are applying for or modifying a SSOA for surface coating or graphic arts onerstions.
N 🖾	0A-04	Woodworking Operations (326 IAC 2-9-4)	53441	Submit if you are applying for or modifying a SSOA for woodworking operations.
N N	OA-05	Abrasive Cleaning Operations (326 IAC 2-9-5)	53442	Submit if you are applying for or modifying a SSOA for abrasive cleaning
N ⊠ N	0A-06	Grain Elevators (326 IAC 2-9-6)	53443	Submit if vou ore confidence for an endit if you or
Z ⊠ ≻	OA-07	Sand And Gravel Plants (326 IAC 2-9-7)	53444	Submit if you are applying for or modifying a SSOA for sand and gravel
N ⊠ ∴	OA-08	Crushed Stone Processing Plants (326	53445	Submit if you are applying for or modifying a SSOA for crushed stone
N N	OA-09	Ready-Mix Concrete Batch Plants (326	53446	Submit if you are applying for or modifying a SSOA for ready-mix concrete
N N	OA-10	Coal Mines And Coal Preparation Plants (326 IAC 2-9-10)	53447	Submit if you are applying for or modifying a SSOA for coal mines and coal
N X	0A-11	Automobile Refinishing Operations (326 IAC 2-9-11)	53448	Submit if you are applying for or modifying a SSOA for automobile
N ⊠ ≻	0A-12	Degreasing Operations (326 IAC 2-9-12)	53449	Submit if you are applying for or modifying a SSOA for degreasing
N N	OA-13	External Combustion Sources (326 IAC 2-9-13)	53450	Submit if you are applying for or modifying a SSOA for external combustion solution
N N N	0A-14	Internal Combustion Sources (326 IAC 2-9-14)	53451	Submit if you are applying for or modifying a SSOA for internal combustion sources.



## AIR PERMIT APPLICATION COVER SHEET

State Form 50639 (R4 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

#### NOTES:

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to IDEM Air Permits Administration using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filling fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

FOR OFFICE USE C	DNLY
PERMIT NUMBER:	
- n	
DATE APPLICATION WAS TECE	IVED:
or mulana	)
APR <b>1 1</b> 2019	
Dept of Environmetal Mana Office of Air Quality	agement

1.	Tax ID Number:			Office of Air Quality
		PART A: Purpose	e of Application	
Par	t A identifies the	purpose of this air permit applic e plant site as a whole and NOT	ation. For the purpo to individual emissi	ses of this form, the term ons units.
	Source / Company			3. Plant ID: —
4.	Billing Address:	5401 West Kilgore Aveue	9	
	City: Muncie		State: IN	ZIP Code: 47304 -
5.	Permit Level:	☐ Exemption ☐ Registration ☐	SSOA MSOP	FESOP / TVOP PBR
		nary: Check all that apply. Multiple per	rmit numbers may be ass	signed as needed based on the
	Initial Permit	Renewal of Operating Per	mit 🔲 A	sphalt General Permit
	☐ Review Reques	t Revocation of Operating F	Permit	Iternate Emission Factor Request
	☐ Interim Approva	Ⅱ Relocation of Portable So	urce $\square$ A	cid Deposition (Phase II)
	Site Closure	Emission Reduction Credi	it Registry	
	☐ Transition (betw	veen permit levels) From:		То:
	Administrative A	Amendment: ☐ Company Name Ch	ange	☐ Change of Responsible Official
		☐ Correction to Non-T	echnical Information	☐ Notice Only Change
		Other (specify):	A LANGE CONTRACTOR OF THE PARTY	
	☐ Modification:	☐ New Emission Unit or Control Device	☐ Modified Emission (	Unit or Control Device
		☐ New Applicable Permit Requirement	Change to Applicab	ility of a Permit Requirement
		☐ Prevention of Significant Deterioration	□ Emission Offset	☐ MACT Preconstruction Review
		☐ Minor Source Modification ☐ S	Significant Source Modificati	on
		☐ Minor Permit Modification ☐ S	Significant Permit Modification	on
		Other (specify):		
7.	Is this an application	on for an initial construction and/or ope	rating permit for a "Gree	nfield" Source?
8.		on for construction of a new emissions		

				PART B: Pre-App	lication N	Meeting	
Pai	rt B specifies	whether a	meeti	ng was held or is b	eing requ	uested to discuss the permit application.	
9.	Was a meeting project?	held between	en the c	ompany and IDEM pric	or to submitt	itting this application to discuss the details of the	
	□No	✓ Yes:	Date:	November 7, 2018			
10.	Would you like project?	to schedule	a meeti	ing with IDEM manage	ment and yo	your permit writer to discuss the details of this	
	✓ No	☐ Yes:	Propos	sed Date for Meeting:			
			D 4 D	T.C. Confidential	Business	e Information	
Da	et C identifies	normit on		T C: Confidential		e to ensure that confidential business	٦
				the public file.	ciai care	e to ensure that confidential business	
set OA	out in the India Q information re tain types of bu	na Administr egarding sub	ative Co mittal o	ode (IAC). To ensure t f confidential business	hat your info information	omitted to IDEM, and must follow the requirement formation remains confidential, refer to the IDEM on. For more information on confidentiality for olicy Document Air-031-NPD regarding Emission	S
11.				tained within this ap	plication	n being claimed as Confidential	
<u> </u>	Business Ir	nformatio	n?				
	✓ No	Yes					
is t	PART D: Certification Of Truth, Accuracy, and Completeness  Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.						t d
def	For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).						1
<b>√</b>	l certify u statemen	nder penalt ts and infor	y of law mation	v that, based on infor contained in this app	mation and olication ar	nd belief formed after reasonable inquiry, the are true, accurate, and complete.	
Ni	gel Morrsior	1			Presid	ident	
Na	me (typed)	A			Title		
	/\	Mar	NL			4/8/2019	
Sig	nature	- 1			Date		

ORIGINAL



## **OAQ GENERAL SOURCE DATA APPLICATION**

GSD-01: Basic Source Level Information

State Form 50640 (R5 / 1-10)
State of Indiana INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Received 100 N. Senate Avenue, MC 61-53 Room 1003

N. Senate Avenue, MC 61-53 Room 100. Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) 2019 Facsimile Number: (317) 232-6749

www.IN.gov/idem

#### NOTES:

The purpose of GSD-01 is to provide essential info brepting form.
 Office of Air Quality

APR 11

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  public inspection.

	PART A: Source / Company Location Information						
1.	1. Source / Company Name: Waelz Sustainable Products, LLC 2. Plant ID: -						
3.	3. Location Address: 5401 West Kilgore Avenue						
	City: Muncie State: IN ZIP Code: 47304 –						
4.	4. County Name: Delaware 5. Township Name: Mount Pleasant						
6.	6. Geographic Coordinates:						
	Latitude: 40.181027	Longitude: -8	5.448685				
7.	7. Universal Transferal Mercadum Coordinates (if known):						
	Zone: Horizontal: Vertical:						
8.	The state of the s						
	☐ No   ☑ Yes – <i>Indicate Adjacent State(s):</i> ☐ Illinois (IL)   ☐ Michigan (MI)   ☑ Ohio (OH)   ☐ Kentucky (KY)						
9.	9. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants?						
	No ☐ Yes – Indicate Nonattainment Pollutant(s): ☐ CO ☐ Pb ☐ NO <sub>x</sub> ☐ O <sub>3</sub> ☐ PM ☐ PM <sub>10</sub> ☐ PM <sub>2.5</sub> ☐ SO <sub>2</sub>						
10.	. Portable / Stationary: Is this a portable or stationary sou	irce?	☐ Portable   ☑ Stationary				
	PART B: Sou	rce Summary					
	. Company Internet Address (optional):						
12	12. Company Name History: Has this source operated under any other name(s)?						
	No Yes - Provide information regarding past company names in Part I, Company Name History.						
13	13. Portable Source Location History: Will the location of the portable source be changing in the near future?						
	☑ Not Applicable ☐ No ☐ Yes – Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.						
14	14. Existing Approvals: Have any exemptions, registrations, or permits been issued to this source?						
	No ☐ Yes - List these permits and their corresponding emissions units in Part M, Existing Approvals.						
15	15. Unpermitted Emissions Units: Does this source have any unpermitted emissions units?						
	15. Unpermitted Emissions Units: Does this source have any unpermitted emissions units?  ☑ No ☐ Yes – List all unpermitted emissions units in Part N, Unpermitted Emissions Units.						
16	. New Source Review: Is this source proposing to constru	uct or modify any en	nissions units?				
	☐ No ☐ Yes – List all proposed new construction						
17	. Risk Management Plan: Has this source submitted a R	sk Management Pla	an?				
	Not Required		A Facility Identifier:				

PART C: Source Contact Information					
this section.					
16231 —					
· · · · · · · · · · · · · · · · · · ·					
if the Authorized Part C.					
24. Name of Authorized Individual or Responsible Official: Nigel Morrison					
25. Title: President					
26. Mailing Address: 3719 West 96 <sup>th</sup> Street					
City: Indianapolis State: IN ZIP Code: 46268 –					
27. Telephone Number: (317) 847 – 4955  28. Facsimile Number (optional): ( ) –					
29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.					
No  ☐ Yes – Change Responsible Official to:					
PART E: Owner Information					
30. Company Name of Owner: Waelz Sustainable Products, LLC					
31. Name of Owner Contact Person: Craig Hogarth					
32. Mailing Address: 7901 West Morris Street					
City: Indianapolis State: IN ZIP Code: 46231 –					
33. Telephone Number: (317) 486 – 2783  34. Facsimile Number (optional): ( ) –					
34. Operator: Does the "Owner" company also operate the source to which this application applies?					
No - Proceed to Part F below. Yes - Enter "SAME AS OWNER" on line 35 and proceed to Part G below.					
PART F: Operator Information					
t G below.					
t G below.					
t G below.					
t G below.					
t G below.					

PART G: Agei	nt Information	
40. Company Name of Agent: Ramboll US Corporation		
	ttorney 🔲 Other (	(specify):
42. Name of Agent Contact Person: Rachel Velthuisen		
43. Mailing Address: 6 Davis Drive, Suite 139		
City: Research Triangle Park	State: NC	<b>ZIP Code</b> : 27709 —
44. Electronic Mail Address (optional): rvelthuisen@	@ramboll.com	
45. Telephone Number: (919) 765 - 8027	46. Facsimile Numb	oer (optional): ( ) —
47. Request for Follow-up: Does the "Agent" wish to receive during the public notice period (if applicable) and a copy	e a copy of the prelimit of the final determinati	nary findings
PART H: Local L	brary Information	
48. Date application packet was filed with the local libra	ry: on or before 4/20/	/2019
49. Name of Library: Muncie Public Library		
50. Name of Librarian (optional):		
51. Mailing Address: 1901 S Liberty Street		
City: Muncie	State: IN	<b>ZIP Code</b> : 47305 –
52. Internet Address (optional):		
53. Electronic Mail Address (optional):		
<b>54. Telephone Number</b> : (765) 747 - 8200	55. Facsimile Numl	ber (optional): ( ) -
PART I: Company Nar Complete this section only if the source has previously opera above in Section A.	ne History (if applicab ated under a legal nam	e that is different from the name listed
56. Legal Name of Company		57. Dates of Use
		to
<ul> <li>58. Company Name Change Request: Is the source officion on all official documents issued by IDEM, OAQ?</li> <li>No</li> <li>Yes – Change Company Name to:</li> </ul>	ally requesting to chan	ge the legal name that will be printed

Complete this section	PART J: Portable Source Location History (ii) on only if the source is portable and the location has change of the source should be listed in Section A.	ed since the previous permit was issued.
59. Plant ID	60. Location of the Portable Source	61. Dates at this Location
		to
-		to
_		to
		to
_		to
-		to
_		to
LINEA		to
		to
<del></del>		to
		to
_		to
		to

PART K: Request to	o Change Location of Portable	Source (if applicable)	
Complete this section to request a change o			
62. Current Location:			
Address:			
City:	State:	ZIP Code: -	
County Name:			
63. New Location:			
Address:			
City:	State:	ZIP Code: -	
County Name:			

	L: Source Process Description		
Complete this section to summarize the main pr		66. SIC Code	67. NAICS Code
64. Process Description	65. Products	80. SIC Code	OI. MAIOO COUL
Secondary Smelting and Refining of	Zinc Oxide and Iron Product	3341	331492
Nonferrous Metals.			
(See application narrative for more details)	·		

Complete this se	PART M: Existing Approvals ( ection to summarize the approvals issued to the source	if applicable) e since issuance of the main operating permit.
68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

Complete this se	PART N: Unpermitted Em ction only if the source has emission units the	ssions Units (if applicable nat are not listed in any perr	nit issued by IDEM,	OAQ.
			Dates	
71. Emissions Unit ID	72. Type of Emissions Unit	Began Construction	Completed Construction	Began Operation

				78. Estimat	ed Dates	
74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	Begin Construction	Complete Construction	Begin Operation
ALL	х		All emission units are new at the facility. Refer to form GSD-05 for a detailed list of new emission units.	8/1/2019	2/1/2021	3/1/202

Indiana Department of Environmental Management Office of Air Quality State Form 50640 (R5 / 1-10)

Air Permit Application FORM GSD-01 Page 6 of 6



### OAQ GENERAL SOURCE DATA APPLICATION GSD-02: Plant Layout Diagram

State Form 51605 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

### NOTES:

- The purpose of GSD-02 is to provide a diagram of the entire plant site. This form and a Plant Layout diagram are required for all
  air permit applications. If you do not provide the necessary information, applicable to your source, the application process may be
  stopped.
- IDEM, OAQ has provided detailed instructions for this form and an example of a basic plant layout diagram on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

		: Plant Layout	n it factors is and
Part A provides IDEM, OAQ with the all around the plant site. Please use this shown. All dimensions and units must following (All measurements should be	table as a checklist. be clearly indicated w	You must provide sca	iled drawings, with the actual scale
1.   Building Location and Dimensi		ecause WSP is a new	facility, exact structures and
2. Property Lines and Access-Lin			le. After construction, WSP will
3. Surrounding Building Location	and Dimensions Pr	ovide a revised Site L	ayout upon request.
4. Distances to Property Lines an	nd Access-Limiting Fe	atures	
5. UTM Location Coordinates	1	pass (pointing North)	7. Scale
o. Divi Education Octorum acco		<u> </u>	
	Dowt D. Stoo	k Information	
Part B provides IDEM, OAQ with the a vents at the plant site. <b>Please use thi</b> points and include all relevant stack ar identify <u>each</u> of these emission points following (All measurements should be	ppropriate information s table as a checklis nd emissions unit iden under "Stack Identific	about all stacks, roof r t. You must show the k tification numbers for e	each. In addition, you will need to
8. 🛛 Exhaust Stacks			ew facility, exact structures and
9.   Process Vents		locations are unavai	ilable. After construction, WSP will
10. ☐ Roof Monitors ☐ No Ro	oof Monitors		te Layout upon request.
10	oof Monitors ontrol Devices		
11. ⊠ Control Devices ☐ No Co	ontrol Devices	provide a revised Si	
11. ⊠ Control Devices ☐ No Co	ontrol Devices terior Vents 🔲 Do	provide a revised Si ors and Windows (for ρ	te Layout upon request.
11. ⊠ Control Devices ☐ No Co  12. ☐ Interior Vents ☒ No Int	ontrol Devices terior Vents Do	provide a revised Si ors and Windows (for p way Information	ite Layout upon request. processes vented inside a building)
11.  ☐ Control Devices ☐ No Co  12. ☐ Interior Vents ☐ No Interio	pontrol Devices terior Vents Do Part C: Road appropriate information	provide a revised Si  ors and Windows (for p  way Information  n about the roadways in	orocesses vented inside a building) on and around the plant site. Please
11. Sontrol Devices No Co  12. Interior Vents No Interior Vents No Interior Vents IDEM, OAQ with the ause this table as a checklist. Includ	pontrol Devices terior Vents Do Part C: Road appropriate information	provide a revised Si ors and Windows (for p way Information in about the roadways in easurements should be	orocesses vented inside a building) on and around the plant site. Please
11. Control Devices	Part C: Road appropriate informatio e the following (All me	provide a revised Si  ors and Windows (for p  way Information  n about the roadways in easurements should be  Because WSP is etc.) locations are una	n and around the plant site. Please in feet.):

Air Permit Application FORM GSD-02 Page 2 of 5

Indiana Department Of Environmental Management Office Of Air Quality State Form 51605 (R3 / 1-10)

				art D: Sour	Part D: Source Building Information	
This table prov table. ( <i>All me</i>	This table provides detailed information about eac table. (All measurements should be given in feet.)	n about each	building at	the plant site	This table provides detailed information about each building at the plant site that is part of the source. If additional space is needed, you may make a copy of this table. (All measurements should be given in feet.)	1, you may make a copy of this
16. Building	17. Buildina	18 Buildi	18 Building Dimensions	one.	40 Dietanes 9 dienation to the	
<u>.</u>	Description	Length	Width	Height	is. Distance & direction to the nearest property line or access limiting feature	20. Distance & direction to the nearest residence
		(feet)	(feet)	(feet)	(feet & compass coordinate)	(feet & compass coordinate)
B-1	Wip Building	219.82	114.83		TBD	TBD
B-2	Electric House Building	88.91	49.87		TBD	TBD
B-3	Maintenance Building	135.83	51.85		TBD	TBD
B-4	Air Compressor Building	62.99	54.46		TBD	TBD
B-5	Pelletazing Building	206.69	59.06		TBD	TBD
B-6	Carbon Receiving Building	114.17	246.06		TBD	TBD
B-7	Pelets Receiving Building	124.67	314.96		TBD	TBD
B-8	EAF Receiving Building	111.55	390.42		TBD	TBD
B-9	CCM	61.35	65.62		TBD	TRD
B-10	Warehouse Building	68.24	50.85		TBD	TBD
B-11	Office Building	101.71	68.90		TBD	TBD
B-12	Storage Finished Product	204.72	85.30		TBD	TBD
B-13	Mobile Equipment Maintenance Building	62.34	52.49		TBD	TBD
B-14	Security Room	29.53	13.12		TBD	TBD
	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM					THE PARTY OF THE P
						Total Control of the
	1000000				Total Control of the	
					TOTAL	

Indiana trnent Of Environmental Management Office Of Audity State Form 51605 (R3 / 1-10)

Air Permit Application FORM GSD-02 Page 4 of 5

Indiana Department Of Environmental Management Office Of Air Quality State Form 51605 (R3 / 1-10)

sectionality charled to allow in fact.)

This table provides detailed information about each builditable. (All measurements should be given in feet.)	letailed inforn nents should	nation about ea	h buildi	ng or residence surrounding the plant site. If additional space is needed, you may make a copy of this	iditional space is needed,	you may make a copy of this
21. Surrounding Building /	22. Surrou Reside	Surrounding Building / Residence Property Dimensions	g / Dimensions	23. Distance & direction to the nearest property line or access	24. Building ID of	25. Distance & direction to
Residence Description	Length	Width	Height	limiting feature	on the plant site	the plant site
TOT	(feet)	(feet)	(feet)	(feet & compass coordinate)		(feet & compass coordinate)
160						
- The state of the					,	7,000
					The state of the s	THE PROPERTY OF THE PROPERTY O
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				THE PARTY OF THE P		
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				1000		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				The state of the s		- COMPANY - TOTAL - TO
				The state of the s		THE REAL PROPERTY OF THE PERSON OF THE PERSO

Indiana ,tment Of Environmental Management Office Or or Quality
State Form 51605 (R3 / 1-10)

### Part F: Plant Layout Diagram

This space provides a place for a hand drawn plant layout diagram. It is **optional** to use this space to create your plant layout, but you must include the diagram with your application. If you choose to submit the plant layout in a different format, state "plant layout attached" in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic plant layout diagram on the Air Permit Applications Forms website.

The site is located at 5401 West Kilgore Ave, Muncie, Indiana. Several figures are included in the application package, including a site layout diagram.



### OAQ GENERAL SOURCE DATA APPLICATION GSD-03: Process Flow Diagram

State Form 51599 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.lN.gov/idem

### NOTES:

- The purpose of GSD-03 is to provide a checklist for identifying the information to be included on each Process Flow diagram.
- Complete this form and submit a process flow diagram for each process included in your air permit application.
- IDEM, OAQ has provided detailed instructions for this form and an example of a basic process flow diagram on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  public inspection.

	art A provides basic information dicate that you have included the punds per hour.):	to understanding the nature of the e following items on your process f	process. Please use this table as a checklist to ow diagram (All throughputs should be given in
1.		See application narrative	
2.		3. Raw Material Input	4. Process Throughput
5.			
int	ormation and indicate in the spa	lain the impacts of the additional e I modification. ( <i>If additional space</i> ce below that additional information	quipment, the reason for removing any equipment, is needed, please attach a separate sheet with the n is attached.)
Ne	w facility.		
<u> </u>			
		Port B. Drosse O:	
Pa	rt B indicates the actual (or estin	Part B: Process Operation nated actual) hours of operation for	Schedule
6.	□ Process Operation Schedu	ile <u>24</u> Hours per Day <u>7</u>	Days per Week <u>52</u> Weeks Per Year
7.	- a distribution for the process,	the space below to include as muc ( <i>If additional space is needed, plea</i> at additional information is attached	h information as is known about scheduled periods
	t C provides information about eachecklist to indicate that you had in pounds per hour.):	Part C: Emissions Point In ach potential outlet of air pollutant ave included the following items on	formation emissions to the atmosphere. Please use this table your process flow diagram ( <i>All throughputs should</i>
8.	Stack / Vent Information		
9.	□ Pollutants Emitted		
10.			

Indiana , tment Of Environmental Management Office Or , Quality State Form 51599 (R3 / 1-10)

### Part D: Process Flow Diagram

olication , GSD-03 Page 2 of 2

Air Peri F This space provides a place for a hand drawn process flow diagram. It is **optional** to use this space to create your process flow diagram, but you must include the diagram with your application. If you choose to submit the process flow diagram in a different format, state "process flow diagram attached" in the space provided, and submit the information with your completed application. IDEM, OAQ has provided an example of a basic process flow diagram on the Air Permit Applications Forms website.

The site is located at 5401 West Kilgore Ave, Muncie, Indiana. Several figures are included in the application package, including a site layout diagram.



OAQ GENERAL SOURCE DATA APPLICATION

GSD-04: Stack / Vent Information State Form 51606 (R3 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

The purpose of this form is to provide basic information about each stack or vent that has the potential to emit air pollutants. If you do not provide enough information to adequately describe each process vent and/or stack, the application process may be stopped. This form is required for all air permit applications.

NOTES:

Defailed instructions for this form are available online on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.



### OAQ GENERAL SOURCE DATA APPLICATION GSD-05: Emissions Unit Information

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT State Form 51610 (R3 / 1-10)

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 DEM – Office of Air Quality – Permits ich 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 www.IN.gov/idem

IDEM - Office of Air Quality - Permits

NOTES:

The purpose of this form is to provide basic information about each emissions unit that has the potential to emit air pollutants. This form is required for all air permit applications.

Detailed instructions for this form are available online on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

### **Emissions Unit Information**

This table provides detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form.

stopped.	it additional spac	ce is liceded, you	stopped. If additional space is fleeded, you flight flighted a copy of this form:		*********		
±	2 Model	3 Sprial	4 Description	5. Manufacturer	6. Installation	7. Maximum	8. Stack/
≝ 5 ⊆ :					Date	Capacity	Vent ID
X X X	TBD	TBD	Kiln 1	TBD	08/2019	24.80 TPH	PC1
KI N2	TBD	TBD	Kin 2	TBD	08/2019	24.80 TPH	PC2
RB1	TBD	TBD	EAF Receiving Building	N/A	08/2019	130.00 TPH	RBBH1
CB3	TBD	TBD	Carbon/Limestone Receiving Building	N/A	08/2019	100.00 TPH	CBBH1
PB1	TBD	TBD	Pelletizing Building	NA	08/2019	120.00 TPH	PBBH1, PBBH2
RM1	TBD	TBD	EAF Hopper 1 (Feed to Cone Pelletizer)	TBD	08/2019	80.00 TON	RMBV1
RM2	TBD	TBD	2	TBD	08/2019	80.00 TON	RMBV2
RM3	TBD	TBD	EAF Hopper 3 (Feed to Cone Pelletizer)	TBD	08/2019	80.00 TON	RMBV3
RM4	TBD	TBD	EAF Hopper 4 (Feed to Cone Pelletizer)	TBD	08/2019	80.00 TON	RMBV4
S C	TBD	TBD	Cone Pelletizer 1	TBD	08/2019	60.00 TPH	PBBH1
CP2	TBD	TBD	Cone Pelletizer 2	TBD	08/2019	60.00 TPH	PBBH1
DRY1	AN AN	ΝΑ	Feed Dryer	TBD	08/2019	60.00 TPH	PBBH2
TB1	TBD	TBD	Kiln 1 Transition Building	NA	08/2019	24.80 TPH	TBBH1
TB2	TBD	TBD	Kiln 2 Transition Building	NA	08/2019	24.80 TPH	TBBH2
WB1	TBD	TBD	WIP Building	NA	08/2019	49.60 TPH	TBBH1, TBBH2



# OAQ GENERAL SOURCE DATA APPLICATION GSD-05: Emissions Unit Information

State Form 51610 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

### NOTES:

- The purpose of this form is to provide basic information about each emissions unit that has the potential to emit air pollutants. This form is required for all air permit applications.
  - Detailed instructions for this form are available online on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

### **Emissions Unit Information**

This table provides detailed information about each emissions unit that has the potential to emit air pollutants to the atmosphere. Accurate information is needed to determine the total potential to emit. If you do not provide enough information to adequately describe each emissions unit, the application process may be stopped. If additional space is needed, you may make a copy of this form

	:	oc is necded, you	unidy make a copy or this form.	, , , , , , , , , , , , , , , , , , ,			•
5 5 1		3. Serial Number	4. Description	5. Manufacturer	6. Installation	7. Maximum	8. Stack/
FP1	TBD	TBD	Finished Product Silo No. 1 (Railway)	TBD	σ	200 00 TON	Vent ID
FP2	TBD	TBD	Finished Product Silo No. 2 (Railway)	TBD	08/2019	200.00 TON	rrov
FP3	TBD	TBD	Finished Product Silo No. 3 (Load	TBD	08/2019	200.00 TON	FPBV3
FP4	TBD	TBD	Finished Product Silo No. 4 (Load Supersack)	TBD	08/2019	200.00 TON	FPBV4
FP5	TBD	TBD	Finished Product Silo No. 5 (Load Supersack)	TBD	08/2019	200.00 TON	FPBV5
EG1	TBD	TBD	Emergency Generator 1	TBD	08/2019	2000.00	NA
EG2	TBD	TBD	Emergency Generator 2	TBD	08/2019	HP 2000.00	NA
						HP	
				1000			1144.

# OAQ GENERAL SOURCE DATA APPLICATION

State Form 51612 (R3 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT GSD-06: Particulate Emissions Summary

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 IDEM - Office of Air Quality - Permit. - anch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 www.1N.gov/idem

NOTES:

The purpose of this form is to provide basic information about each source of particulate emissions. This form is required for all air permit applications.

Detailed instructions for this form are available on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

### Part A: Particulate Matter Emissions

Part A provides a summary of the type and amount of particulate emissions at the source. The state rules on particulate emissions are found in Title 326 of the Indiana Administrative Code, Article 6, Particulate Rules. If you do not provide enough information to adequately describe each source of particulate emissions,

applic	the application process may be stopped. If additional spac	nal space is	needed, you	ie is needed, you may make a copy or uns table.  Potential To Em	otential To E	Potential To Emit (tons per year)	ear)			1
iš	Emissions Point						١,	Tourstine DAM	MOGVIO	
₽	2. Description	3. PM	4. PM-10	5. PM-2.5	6. TSP	7. Fugitive Dust	Just 8.	Fugitive PIVI	- 1	_
	Kiln 1 Product collection baghouse [Emissions accounted under KLN1]								7 50	<del></del>
KLN1	Kiln 1 Process Unit	17.85	17.85	17.85	26.78				00.1	-
	Kiln 2 Product collection baghouse remissions accounted under KLN21							1444	7	T
KLN2	Kiln 2 Process Unit	17.85	17.85	17.85	26.78			American	00.1	
RBBH	EAF Receiving Building Baghouse	15.77	15.77	15.77			•		0.15	Т
1 CBBH	Carbon/Limestone Receiving Building	15.77	15.77	15.77					0.15	······································
7 PBBH1	Pelletizing Building / Cone Pelletizers	15.77	15.77	15.77					0.15	T
PBBH2	Pelletizing Building / Rotary Dryer	15.77	15.77	15.77	23.65				0.15	
TBBH1	Kiln 1 Transition Building / WIP	15.77	15.77	15.77					0.17	<del></del>
TBBH2	Kiln 2 Transition Building / WIP	15.77	15.77	15.77					0.17	1
	Emergency Generator 1	0.35	0.35	0.35				1	0.00	1
EG2	Emergency Generator 2	0.35	0.35	0.35				- Control of the Cont	0.00	
FPBV1	Finished Product Silo No. 1 (Railway) Bin Vent Filter	0.35	0.35	0.35					0.01	

Air Permit Application FORM GSD-06 Page 2 of 4

Indiana Department Of Environmental Management Office Of Air Quality State Form 51612 (R3 / 1-10)

0.0 0.01 0.01 0.01 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 Finished Product Silo No. 2 (Railway) Bin Vent Filter Finished Product Silo No. 3 (Load Supersack) Bin Vent Filter Finished Product Silo No. 4 (Load Supersack) Bin Vent Filter Finished Product Silo No. 5 (Load Supersack) Bin Vent Filter FPBV2 FPBV3 FPBV5 FPBV4

Air Perr ilication FL GSD-06 Page 3 of 4

> Indiana tment Of Environmental Management Office Of Aur Quality State Form 51612 (R3 / 1-10)

<u>2</u> **≥ ≥** 13, Control Plan Date Submitted: Date Submitted: Date Submitted: Date Submitted: ☐ Yes ☐ No Date Submitted: Date Submitted: Date Submitted: Date Submitted: Part C gathers information about how each source of particulate emissions is controlled. If you do not provide enough information to adequately describe how each source of particulate emissions is controlled, the application process may be stopped. If additional space is needed, you may make a copy of this table. ☐ Yes ∏ Yes ☐ Yes ☐ Yes Yes ☐ Yes Yes Part B: Control of Particulate Emissions 12. Control Measure Description **Dust Suppression Dust Suppression** 11. Control Measure No Control Other: Other: . Other: Other: Other: Other Other: Other: 10. Emissions Point ID

Indiana Department Of Environmental Management Office Of Air Quality State Form 51612 (R3 / 1-10) Air Permitting Rules 326 IAC 6-4 and 326 IAC 6-5 require fugitive dust to be controlled as needed to prevent dust from visibly crossing property lines. Parts C and D summarize sources of fugitive particulate emissions from process operations and unpaved roads.

Part C identifies	PART C: Fugitive Dust (if applicable) Part C identifies measures implemented for controlling fugitive particulate emissions from process operations and unpayed made	ntrolling fugiti	PART C: Fu	PART C: Fugitive Dust (if applicable) particulate emissions from process or	able)	speci	
14. Dust Contro	14. Dust Control Plans: Check all that apply.			15. Control Measures:	posadin pina silikasi		
Conveying:	j;	□ Wet	□ Dry				
Stock Piles:	.S.:	□ Open	☐ Covered				
☐ Unpaved	☐ Unpaved Roads: Watered?	☐ Yes	% 	National proprieties			
Other (specify):	cify):		THE PART OF THE PA				
Other (specify):	cify):						
Other (specify):	cify):				ARADAM PROPERTY AND		
Part Chathere in	and the state of t	PART D: V	ehicular Traffi	T D: Vehicular Traffic on Unpaved Roads (if applicable)	ds (if applicable)		
traffic. Two one-way trips equal line is the one-way trip distance.	traffic. Two one-way trips equal one round trip. For external traffic (vehicles entering and leaving the property lines), the distance from the plant to the property	atterns when For external	the site contair traffic (vehicle	ns unpaved roads. / s entering and leavin	All data should be provided and the property lines), the dist	ssuming peak ho ance from the pl	ours of vehicular ant to the property
16. Average Silt	16. Average Silt Content of Unpaved Roads:	%00'0					
17. Vehicle Description	18. Max. No. round trips at peak hours	19. Distance way trip	Distance of one- way trip	20. Max. vehicle speed	21. Max. gross vehicle weight (fully loaded)	22. Tare weight	23. No. of wheels on vehicle
NA	and the same of th	nysamin	/di	(udw)	(tons)	(tons)	(wheels)
	THE PROPERTY OF THE PROPERTY O						ment of the state
	***************************************						
				Additional designation of the second	AAAAAA TITTII TAAA TITTII TAAAA TITTII TAAAA TITTII TAAAA TAAAA TAAAAA TAAAAA TAAAAA TAAAAA TAAAAA TAAAAA TAAAA		

# OAQ GENERAL SOURCE DATA APPLICATION

GSD-06: Particulate Emissions Summary State Form 51612 (R3 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 anch IDEM - Office of Air Quality - Permit. ... anch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 www.lN.gov/idem

NOTES:

The purpose of this form is to provide basic information about each source of particulate emissions. This form is required for all air permit applications.

Detailed instructions for this form are available on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Part A: Particulate Matter Ethissions  The date or particulate emissions are found in Title 326 of the	Part A provides a summary of the type and amount of particulate emissions at the source. The state fulces of particulate emissions, and adequately describe each source of particulate emissions, and adequately describe each source of particulate emissions.	Indiana Administrative Code, A trick of the stopped. If additional space is needed, you may make a copy of this table.
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the annli	the application process may be stopped. If additional space is needed, you may make a copy of this table.	nal space i	s needed, you	may make a	copy of this tal	ole.		
1225					Potential To	Potential To Emit (tons per year)		
Emi	Emissions Point	- 1			COF	7 Cucitive Dust	8 Finitive PM	9. HAP PM
<del>-</del>	2. Description	3. PM	4. PM-10	5. PM-2.5	و. اعلا	/. rugiuve Dust		
RMBV	145	0.35	0.35	0.35				
RMBV	EAF Hopper No. 2 (Feed to Cone	0.35	0.35	0.35				0.02
7	Pelletizer) Bin Vent Filter		1	100			- W	0.02
RMBV	EAF Hopper No. 3 (Feed to Cone	0.35	0.35	0.35				000
RMBV	EAF Hopper No. 4 (Feed to Cone	0.35	0.35	0.35				0.02
4	Pelletizer) Bin Vent Filter							
	7444 - 477							
	10 10 10 10 10 10 10 10 10 10 10 10 10 1							
	107 107 107 107 107							
								7 4 0 000

Air Perr Slication F. GSD-06 Page 3 of 4

Indiana tment Of Environmental Management Office On , ... Quality State Form 51612 (R3 / 1-10)

<u>2</u> **ջ** □ **ջ** □ 13. Control Plan Date Submitted: Date Submitted: Date Submitted: ☐ Yes ☐ No Date Submitted: Date Submitted: Date Submitted: Date Submitted: Date Submitted: Part C gathers information about how each source of particulate emissions is controlled. If you do not provide enough information to adequately describe how each source of particulate emissions is controlled, the application process may be stopped. If additional space is needed, you may make a copy of this table. ☐ Yes ☐ Yes Yes ☐ Yes ☐ Yes Yes ⊢ Part B: Control of Particulate Emissions 12. Control Measure Description **Dust Suppression Dust Suppression Dust Suppression Dust Suppression Dust Suppression Dust Suppression** Dust Suppression **Dust Suppression** 11. Control Measure No Control Other: Other: Other: Other: Other: Other: Other: Other: 10. Emissions Point ID

Air Permitting Rules 326 IAC 6-4 and 326 IAC 6-5 require fugitive dust to be controlled as needed to prevent dust from visibly crossing property lines. Parts C and D summarize sources of fugitive particulate emissions from process operations and unpaved roads.

# OAQ GENERAL SOURCE DATA APPLICATION GSD-07: Criteria Pollutant Emissions Summary

State Form 51602 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits E. ...th 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-251 Telephone: (347) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

NOTES:

The purpose of this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source. This form is required for all air permit applications.

Detailed instructions for this form are available on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

information to	al To Emit	Tons Per Year	84.06	54 00		26.78	9.45	8.10	84.06	54.00	26.78	9.45		8.10	6.13	7.30	23.65	0.04	0.40
do not provide enough i	5. Potential To Emit	Standard Units												7	Address and the state of the st				
nissions unit. If you pped	ssions	Tons Per Year																	
ch criteria pollutant emitted from each emission	4. Actual Emissions	Standard Units							The state of the s			A STATE OF THE STA			-				
		3. Citteliar omamin		00	NOx	Total PM, PM10, PM2.5	802	VOC	00	×ON	T. L. DAN DANGO COMO E	וסומו ביאוי ביאו היאו היאו היאורים	802	NOC	00	×CN	Total PM PM10 PM2.5	600	700
s the actual and potent	≨ <del>                                    </del>	1. Unitid 2. Stack/ventid		PC1					600		-				PRBH2			A STATE OF THE STA	
Part A provide:	adequately de	T. CINED.		KLN1					CMIX	NEW C					DRV1				

Indiana Department Of Environmental Management Office Of Air Quality State Form 51602 (R3 / 1-10)

6. Criteria Pollutant         7. Actual Emissions         8. Potential To Emit           Carbon Monoxide (CO)         Standard Units         Tons Per Year         Standard Units         Tons Per Year           Carbon Monoxide (CO)         see GSD-08 for detailed info.         0.5         Tons Per Year         181.43           Nitrogen Oxides (NO <sub>X</sub> )         see GSD-08 for detailed info.         0.5         0.83         140.02           Particulate Matter less than 10µm (PM <sub>10</sub> )         Particulate Matter less than 2.5µm (PM <sub>2s</sub> )         176.02         160.28           Particulate Matter less than 2.5µm (PM <sub>2s</sub> )         (includes fugitives)         163.20           Sulfur Dioxide (SO <sub>2</sub> )         (includes fugitives)         160.78           Volatile Organic Compounds (VOC)         (includes fugitives)         160.78           Other (specify):         17.35	Part B provides the total actual and potential emissions of each crite the source). If you do not provide enough information to adequately	Part B: Pollutant Emissions Summary of each criteria pollutant emitted from the source (including all emissions units and fugitive emissions at adequately describe the total source emissions, the applications at	Source (including a	all emissions units and fugit	We emissions at
Standard Units Fors Per Year Standard Units  See GSD-08 for detailed info. 0.5 (includes fugitives)  PM <sub>2.5</sub> ) (includes fugitives)			and an alpha	duon process may be stopp	ed.
Standard Units Forr Year Standard Units  see GSD-08 for detailed info. 0.5 (includes fugitives)  PM <sub>2.5</sub> ) (includes fugitives)		/. Actual Emis	sions	8. Potential T	'o Emit
PM <sub>2.5</sub> ) see GSD-08 for detailed info. 0.5 (includes fugitives) PM <sub>2.5</sub> ) (includes fugitives)	Carbon Monavida (CO)	Standard Units	Tons Per Year	Standard Units	Tons Per Year
PM <sub>2.5</sub> ) see GSD-08 for detailed info. 0.5 (includes fugitives) PM <sub>2.5</sub> ) (includes fugitives)				GOVERNMENT TO THE PROPERTY OF	104 40
PM <sub>2.5</sub> )  (includes fugitives)  (includes fugitives)  (includes fugitives)	read (PD)	200 OSD 000			24.101
PM <sub>1.5</sub> ) (includes fugitives) PM <sub>2.5</sub> ) (includes fugitives)	Nitrogen Oxides (NO <sub>x</sub> )	see Con-vo for defailed into.	0.5		0.93
PM <sub>2.5</sub> ) (includes fugitives) PM <sub>2.5</sub> ) (includes fugitives)	Particulate Matter (PM)				140.02
PM <sub>2.5</sub> ) (includes fugitives)				(includes funitives)	176.00
PM <sub>2.5</sub> ) (includes fugitives)	Farticulate Matter less than $10\mu m$ (PM <sub>10</sub> )			(0)	1.0.02
(includes fugitives)	Particulate Matter less than 2.5μm (PM <sub>2.5</sub> )			(includes fugitives)	163.20
	Sulfur Dioxide (SO <sub>2</sub> )			(includes fugitives)	160.78
	Volatile Organic Compounds (VOC)				19.35
	Other (specify):				17.35

Compressor Seals Flanges Open-Ended Lines Pressure Relief Seals	10. Emission Factor 11. Number (lb/ht) Leaking	tenti
Flanges Open-Ended Lines Pressure Relief Seals		Founds Per Hour Tons Per Year
Open-Ended Lines Pressure Relief Seals		
Pressure Relief Seals		
Pump Seals		
Sampling Connections		
Valves		
Other (specify):		

### GSD-07: Criteria Pollutant Emissions Summary OAQ GENERAL SOURCE DATA APPLICATION

State Form 51602 (R3 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003

Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

# The purpose of this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source. This form is required for all air permit applications.

NOTES:

Detailed instructions for this form are available on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1 Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

adequately describe the emissions from each emiss	from each emissions unit, the app 3. Criteria Pollutant	sions unit, the application process may be stopped.  4. Actual Emissions Standard Units Tons	ped. sions Tons Per Year	adequately describe the emissions from each emissions unit, the application process may be stopped.  1. Unit ID 2. Stack / Vent ID 3. Criteria Pollutant Standard Units Tons Per Year Standard	Emit Tons Per Year
RBBH1	Total PM, PM10, PM2.5				15.77
PBBH182	Total PM, PM10, PM2.5				Included in DRY1&CP1
RMBV1	Total PM, PM10, PM2.5				0.35
RMBV2	Total PM, PM10, PM2.5			The state of the s	0.35
RMBV3	Total PM, PM10, PM2.5			And the second s	0.35
RMBV4	Total PM, PM10, PM2.5				0.35
PBBH1	Total PM, PM10, PM2.5			With the state of	15.77
PRBH1	Total PM, PM10, PM2.5				Included in CP1
TBRH1	. Е.				15.77
TRRH2					15.77
FPRV1	1				0.35
EPRV2				The state of the s	0.35
FPBV3					0.35
FPBV4					0.35
FPBV5	Total PM, PM10, PM2.5	177			0.35

Indiana Department Of Environmental Management Office Of Air Quality State Form 51602 (R3 / 1-10)

	igation process may be deather emissions at	recent process may be stopped.	8. Potential To Emit	If Standard Units Tone Do. V.						The state of the s				
nary	source (includir		SSIONS	Tons Per Year		of form GSD-07								
Part B: Pollutant Emissions Summary	ria pollutant emitted from the describe the total source em	7 Actual E	Actual Emissions	Standard Units	PTE Included on fact	i i i i citadea oli ilist cobò								
Part B provides the total actual and and anticipation in the total actual and anticipation in the total actual and anticipation in the total actual a	the source). If you do not provide enough information to adequately describe the total source emissions, the application process may be describe the total source emissions, the application process may be described the total source emissions.	6. Criteria Pollutant		Coron Monovida (ON)	Carboil Molloxide (CO)	Lead (Pb)	Nitrogen Oxides (NO <sub>x</sub> )	Particulate Matter (DM)	(LIM)	Particulate Matter less than 10µm (PM₁₀)	Particulate Matter less than 2.5µm (PM) s)	Sulfur Dioxide (SO <sub>2</sub> )	Volatile Organic Compounds (VOC)	Other (specify):

	ssion points. Complete this table if you	12. Uncontrolled Potential To Emit		rounds Fer Hour Tons Per Year					
licablei	ssions from these emi		Leaking						
Part C: Fugitive VOC Emissions (if anolicable)	rce and estimates VOC emis-2 or 326 IAC 2-3.	10. Emission Factor	(111/011)						767
Part C: Fugi	f fugitive VOC emissionissionissions data pursuant	9. Fugitive Emissions Source		Compressor Seals	Flandes	Open-Ended Lines	Draceure Delice Contract	Pump Seals	Sampling Connections

Other (specify):

Valves



# OAQ GENERAL SOURCE DATA APPLICATION

GSD-07: Criteria Pollutant Emissions Summary State Form 51602 (R3/1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003

NOTES:

The purpose of this form is to provide the actual and potential emissions of each criteria pollutant emitted from the source. This form is required for all air permit applications.

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Part A provid adequately de	Part A provides the actual and potential emissions of ear adequately describe the emissions from each emissions		ch criteria pollutant emitted from each emission unit, the application process may be stopped.	ssions unit. If you ped.	do not provide enough infor	mation to
CI timit	1 Ilnit () 2 Stack / Vent (D		4. Actual Emissions	sions	5. Potential To Emit	Emit
2			Standard Units	Tons Per Year	Standard Units	Tons Per Year
2	100	00			Livings - A Address - Addr	2.75
ם ב		XCN				12.00
		PM PM10, PM2.5				0.35
		208	The state of the s			0.20
		SON				0.35
E.C.3	EG3	00				2.75
201		×CZ				12.00
		DAY DAYLO BAYO 5				0.35
		LIMI, FIMIC, 1 ME.O				0.20
		208				0.35
		200				16.02
Roadway	NA	MI				3.20
		PMIU				0.79
		C.ZIVIT				

Indiana Department Of Environmental Management Office Of Air Quality State Form 51602 (R3 / 1-10)

al actual and potential emissions Tot provide enough information t	sch criteria pollutant emitted from the sou quately describe the total source emissic	source (including a ssions, the applicat	of each criteria pollutant emitted from the source (including all emissions units and fugitive emissions at to adequately describe the total source emissions, the application process may be stopped
6. Criteria Poliutant	7. Actual Emissions	sions	8. Potential To Emit
	Standard Units	Tons Per Year	Standard Unite Town 12
Carbon Monoxide (CO)	DTE Inclined on great		
Lead (Pb)	Trininged on Hist copy	or form GSD-07	
Nitrogen Oxides (NO <sub>x</sub> )	The second secon		
Particulate Matter (PM)			
Particulate Matter less than 10 <sub>um</sub> (PM <sub>10</sub> )			
Particulate Matter less than 2.5μm (PM <sub>2</sub> )			
Sulfur Dioxide (SO <sub>2</sub> )		-	
Volatile Organic Compounds (VOC)			Of the second se
Other (specify):			

Part C summarizes the sources of fugitive VOC emissions at the source and estimates VOC emissions from these emission points. Complete this table if you are required to provide fugitive emissions data pursuant to 326 IAC 2-2 of 326 IAC 2-3.		10. Emission Factor 11. Number 12. Uncontrolled Potential To Emis	Pounds Per Hour Tons Per Year			
Part C: Fugitive VOC Emission Part C: Fugitive VOC Emissions at the source and estimates Vare required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3.	9. Finditive Emissions Course		Compressor Seals	Flandes	Solution to	Open-Fuded Lines

Sampling Connections

Other (specify):

Valves

Pressure Relief Seals

Pump Seals

GSD-08: Hazardous Air Pollutant Emissions Summary OAQ GENERAL SOURCE DATA APPLICATION

State Form 51604 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003

www.lN.gov/idem

### NOTES:

- The purpose of this form is to provide the actual and potential emissions of each hazardous air pollutant emitted from the source. This form is required for all air permit applications.
  - Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1.4-1 Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

des the actual and potential emissions of each haz describe the emissions from each emissions unit, vent iD  2. Stack / 3. Hazardous Air	Part A: Unit Emissions Summary		
Number Standard Units Standard Units	us air pollutant emitted from each emissions unit. Splication process may be stopped.	If you do not provide enough inf	nformation to
Yent IDPollutantNumberStandard UnitsPC1Lead CompoundEad CompoundRBBH1Lead CompoundEad CompoundPBBH182Lead CompoundEad CompoundRMBV1Lead CompoundEad CompoundRMBV2Lead CompoundEad CompoundPBBH1Lead CompoundEad CompoundPBBH1Lead CompoundEad CompoundPBBH1Lead CompoundEad CompoundTBBH1Lead CompoundEad CompoundTBBH1Lead CompoundEad CompoundTBBH1Lead CompoundEad Compound	5. Actual Emissions	6. Potential To Emit	nit
PC1 Lead Compound  RBBH1 Lead Compound CBBH1 Lead Compound PBBH1&2 Lead Compound RMBV1 Lead Compound RMBV2 Lead Compound RMBV4 Lead Compound PBBH1 Lead Compound PBBH1 Lead Compound PBBH1 Lead Compound TBBH1 Lead Compound TBBH1 Lead Compound TBBH2 Lead Compound TBBH1 Lead Compound		Standard Units Tor	Tons Per Year
PC2 L RBBH1 L CBBH1 L RMBV1 L RMBV2 L RMBV3 L RMBV4 L PBBH1 PBBH1 PBBH1 PBBH1 TBBH2 TBBH2 TBBH2 TBBH2			0.31
PC2 L RBBH1 L CBBH1 L RMBV1 L RMBV2 L RMBV3 RMBV4 PBBH1 PBBH1 PBBH1 PBBH1 TBBH2 TBBH2 TBBH2			0.31
RBBH1         L           CBBH1         L           PBBH182         L           RMBV2         L           RMBV3         L           PBBH1         PBBH1           PBBH1         PBBH2           TBBH1         TBBH1           TBBH1         TBBH2			900
CBBH1%2 L RMBV1 L RMBV2 RMBV3 RMBV4 PBBH1 PBBH1 PBBH1 TBBH1 TBBH1 TBBH2			0.00
RMBV1   RMBV2   RMBV3   RMBV4   PBBH1   PBBH1   PBBH2   TBBH2   TBBH2			90.0
RMBV1 RMBV3 RMBV4 PBBH1 PBBH1 TBBH1 TBBH2		Par	Part of RBBH1 &2
RMBV2 RMBV3 RMBV4 PBBH1 PBBH1 PBBH2 TBBH2 TBBH2			0.0071
RMBV3 RMBV4 PBBH1 PBBH1 PBBH2 TBBH1 TBBH2			0.0071
RMBV3 RMBV4 PBBH1 PBBH2 TBBH1 TBBH2			0.0074
RMBV4 PBBH1 PBBH2 TBBH1 TBBH2			0.000
PBBH1 PBBH2 TBBH1 TBBH1	The state of the s		0.0071
PBBH1 PBBH2 TBBH1 TBBH2		ď	Part of RBBH1
PBBH1 PBBH2 TBBH1 TBBH2		<u>a</u>	Part of RBBH1
PBBH2 TBBH1 TBBH2		α	Part of RRRH2
TBBH1 TBBH2			0000
ТВВН2		- Administration - Admi	0.0003
continued	and the second s		0.0003

Indiana Department Of Environmental Management Office Of Air Quality State Form 51604 (R3 / 1-10)

	Part B:	Part B: Pollutant Emissions Summary	lary		
Fart is provides the total and potential emissions of each hazardous air pollutant emitted from the source (including all emissions units and fugitive emissions at the source). If you do not provide enough information to adequately describe the total source emissions, the annication process.	sions of each haza ough information (	ardous air pollutant emitted from adequately describe the total	om the source (includated source)	uding all emissions units an	d fugitive
7. Hazardone Air Pollutant				o, une application process fr	lay be stopped.
	S. CAS	9. Actual Emissions	ssions	10. Potential To Emit	o Emit
		Standard Units	Tons Per Year	Standard Unite	Tono Bee Vee
Lead Compund					Jear Tar Silor
Soo Emission Coloniation Latter to the state of the state			0.0		0.93
COC L'INSSIGN CAICUIARIONS IOL IUII IIST OF HAP					
					•
					-
The state of the s					

	Part C: Fuo	Part C: Fugitive MAP Emissions // applicable)	Monthley		
Part C summarizes the sources of fugitive HAP emissions at the source and estimates are required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3	AP emissions at the sou ta pursuant to 326 IAC 2	sions at the source and estimates HAP emissions from these emission points. Complete this table if you and to 326 IAC 2-2 or 326 IAC 2-3	ssions from these e	mission points. Complete	this table if you
11. Fugitive Emissions Source	12. Hazardous Air	13. Emission Factor	14. Number	15. Uncontrolled Potential To Emit	ntial To Emit
		(III)OII)	Leaking	Pounds Per Hour	Tone Der Veer
Compressor Seals					Jear of City
Flanges					
Open-Ended Lines					
Pressure Relief Seals					
Pump Seals	The state of the s				
Sampling Connections					
Valves					
Other (specify):	- The state of the			7777	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

OAQ GENERAL SOURCE DATA APPLICATION GSD-08: Hazardous Air Pollutant Emissions Summary

State Form \$1604 (R311-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

NOTES:

The purpose of this form is to provide the actual and potential emissions of each hazardous air pollutant emitted from the source. This form is required for all air permit applications.

Detailed instructions for this form are available on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

			Part A	Part A: Unit Emissions Summary			
Part A provic	des the actual ar	Part A provides the actual and potential emissions of e adequately describe the emissions from each emissio	of each hazardous sions unit, the appl	each hazardous air pollutant emitted from each emissions unit. If you do not provide enough information to one unit, the application process may be stopped.	ach emissions unit. ped.	If you do not provide enou	gh information to
1. Unit ID	2. Stack/	3. Hazardous Air	4. CAS	5. Actual Emissions	sions	6. Potential To Emit	o Emit
		Pollutant	Number	Standard Units	Tons Per Year	Standard Units	Tons Per Year
WB1	TBBH1, TBBH2	Lead Compound		The second secon			Part of TBBH1&2
FP1	FPBV1	Lead Compound					0.0071
FP2	FPBV2	Lead Compound					0.0071
FP3	FPBV3	Lead Compound					0.0071
FP4	FPBV4	Lead Compound					0.0071
FP5	FPBV5	Lead Compound					0.0071
EG1	EG1	Lead Compound					0.00003
EG2	EG2	Lead Compound				The state of the s	0.00003
		The state of the s				· · · · · · · · · · · · · · · · · · ·	

Indiana Department Of Environmental Management Office Of Air Quality State Form 51604 (R3 / 1-10)

	Part B.	Part B. Pollutant Emissions 6			
Part B provides the total actual and potential emis-	The second	oliukanı Emissions summ	lary		
emissions at the source). If you do not provide enough information to adequately describe the total source emissions the annication provide annica	sions of each naza rough information t	irdous air pollutant emitted fr o adequately describe the to	om the source (incl tal source emission	uding all emissions units an	d fugitive
7. Hazardous Air Pollutant	200	T		a constant of the constant of	ay be stopped.
	Nimber	S. Actual Emissions	SSIONS	10. Potential To Emit	5 Emit
		Standard Units	Tons Per Year	Standard Units	Tong Don Vee
PTE included on first copy of GSD-08 form					Ter rear
TANKI TITOTO TO THE TOTO					
	· .				
AND THE PROPERTY OF THE PROPER					
		711777			

# Part C summarizes the sources of fugitive HAP emissions at the source and estimates HAP emissions from these emission points. Complete this table if you are required to provide fugitive emissions data pursuant to 326 IAC 2-2 or 326 IAC 2-3. Part C: Fugitive HAP Emissions (if applicable)

1,1					
11. Fugitive Emissions Source	12. Hazardous Air Pollutant	13. Emission Factor	14. Number	15. Uncontrolled Potential To Emit	ntial To Emit
		(11)	Leaking	Pounds Per Hour	Tons Per Vaar
Compressor Seals					
Flanges					
Open-Ended Lines					
Pressure Relief Seals					
Pump Seals					
Sampling Connections					
Valves					
Other (specify):					
		_	_	_	



### OAQ GENERAL SOURCE DATA APPLICATION GSD-09: Summary of Additional Information

State Form 5:611 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.lN.gov/idem

### NOTES:

- The purpose of this form is to supply a format for providing additional information about a process or emissions unit. This form is
  optional.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.

  Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

	Summary of Additional Information
Th	is table is intended to summarize any additional information about a process or emissions unit that you are submitting
wit	h your air permit application.
1.	Process: Emergency Generators Fuel Sulfur Content 2. Unit ID: EG1, EG2 (two identical units)
3.	Application Form Reference: PI-02C, Item 10. Control Techniques, Low Sulfur Fuel Content
4.	<b>Explanation:</b> Provide a brief explanation of why you are supplementing the application with additional information. This information will help us continue to improve our air permit application forms.  This form is required by form PI-02C for a further explanation of the control technique for the emergency generators (i.e., low sulfur content fuel).
5.	Summary of Additional Information: Provide a brief summary of the additional information you are providing with your air permit application.  The potential emissions were based on the emergency generators firing low sulfur diesel fuel. The facility will limit sulfur content
	in the diesel fuel fired in the emergency generators to no more than 500 ppm (or 0.05%).
6.	Additional Calculations / Diagrams: Use the space provided to include additional calculations and/or diagrams, if applicable.

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	· ·	



### OAQ GENERAL SOURCE DATA APPLICATION GSD-10: Insignificant Activities

State Form 51596 (R4 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.lN.gov/idem

### NOTES:

- The purpose of this form is to identify all trivial and insignificant activities in operation at the source. This form is required for all air permit applications.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  public inspection.

	Part A: Trivial Activities (Optional)	
checklis	entifies all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). <b>Please use this</b> t. Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification rands to the Plant Layout and Process Flow diagrams.	table as a number that
Unit ID	Description of Trivial Activity	Citation (326 IAC)
Diesel Storag e Tank,	Any activity or emission unit:	2-7-1(40)(A)
Water Heater s, Space Heater		
** ***********************************	not regulated by a NESHAP, with potential uncontrolled emissions are equal to or less than pound per day on an emission unit basis for any single HAP or combination of HAPs; and	one (1)
	for which the potential uncontrolled emissions meet the exemption levels specified in the following	lowing:
	For lead and lead compounds measured as elemental lead (Pb), potential uncontrolled emission equal to or less than one (1) pound per day	
	For carbon monoxide (CO), potential uncontrolled emissions that are equal to or less than one (	1) pound per
	For sulfur dioxide (SO <sub>2</sub> ), potential uncontrolled emissions that are equal to or less than one (1)	oound per day
	For volatile organic compounds (VOC), potential uncontrolled emissions that are equal to or les pound per day	s than one (1)
	For nitrogen oxides (NOx), potential uncontrolled emissions that are equal to or less than one (	) pound per
	For particulate matter with an aerodynamic diameter less than or equal to ten (10) micrometers potential uncontrolled emissions that are equal to or less than one (1) pound per day	(PM <sub>10</sub> ),
	2. Water related activities including:	2-7-1(40)(B)
	Production of hot water for on-site personal use not related to any industrial or production process	Land Market Control of the Control o
	Water treatment activities used to provide potable and process water for the plant, excluding any activities associated with wastewater treatment	
	Steam traps, vents, leaks and safety relief valves	
<b></b>	Cooling ponds	
<u></u>	□ Sound permits     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using only water solutions of bleach or detergents     □ Laundry operations using operations using only water solutions of bleach or determined the solutions of the s	
	Demineralized water tanks and demineralizer vents	

Air Permit Application FORM GSD-10 Page 2 of 14

	0.000 (1.17.1.10)	Page 2 of 14
	Part A: Trivial Activities (Optional)	
CHECKIIS	entifies all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). <b>Please use this</b> it. Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification rends to the Plant Layout and Process Flow diagrams.	table as a number that
Unit ID	Description of Trivial Activity	Citation (326 IAC)
	☐ Boiler water treatment operations, not including cooling towers	
	Oxygen scavenging (de-aeration) of water	
	Steam cleaning operations and steam sterilizers	
	☑ Pressure washing of equipment	
	☐ Water jet cutting operations	

urrespo	Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identificands to the Plant Layout and Process Flow diagrams.	Citation (326 IAC)
Unit ID	Description of Trivial Activity	2-7-1(40)(C)
	3. Combustion activities including the following:	
	Portable electrical generators that can be moved by hand from one location to another. "Move that it can be moved without the assistance of any motorized or non-motorized vehicle, convey	ance, or device
	Combustion emissions from propulsion of mobile sources	
	☐ Fuel use related to food preparation for on-site consumption	
	☐ Tobacco smoking rooms and areas	
	☐ Blacksmith forges	
	☐ Indoor and outdoor kerosene heaters	2.7.4(40)/D)
	4. Activities related to ventilation, venting equipment and refrigeration, including the following	
	Ventilation exhaust, central chiller water systems, refrigeration and air conditioning eq related to any industrial or production process, including natural draft hoods or ventilated not remove air pollutants	ung systems that
	Stack and vents from plumbing traps used to prevent the discharge of sewer gases, h sewage only, excluding those at wastewater treatment plants or those handling any in	nandling domestic Idustrial waste
	∀ents from continuous emissions monitors and other analyzers	
	Natural gas pressure regulator vents, excluding venting at oil and gas production facil	ities
	Air vents from air compressors	- AMAZONIA
	☐ Vents for air cooling of electric motors provided the air does not commingle with regul	lated air pollutants
	☐ Vents from equipment used to air blow water from cooled plastics strands or sheets	
	5. Activities related to routine fabrication, maintenance and repair of buildings, structures, equipment or vehicles at the source where air emissions from those activities would not be associated with any commercial production process including the following:	2-7-1(40)(E
	Activities associated with the repair and maintenance of paved and unpaved roads, ir sealing, or both, of parking lots and roadways	ncluding paving or
	Painting, including interior and exterior painting of buildings, and solvent use, excluding operations utilizing halogenated organic solvents	ng degreasing
******	□ Brazing, soldering, or welding operations and associated equipment	
	Portable blast-cleaning equipment with enclosures	
	☐ Blast-cleaning equipment using water as the suspension agent and associated equip	ment
	Lubrication, including hand-held spray can lubrication, dipping metal parts into lubrication or automated addition of cutting oil in machining operations	ating oil, and manua
	Non-asbestos insulation installation or removal	
	☐ Tarring, retarring and repair of building roofs	
	☐ Bead blasting of heater tubes	
	☐ Instrument air dryer and filter maintenance	
	Manual tank gauging	
	Open tumblers associated with deburring operations in maintenance shops	

Air Permit Application FORM GSD-10 Page 4 of 14

		Pa	art A: Trivial	Activities (c	ontinued)					
tubic as	a cliec	ed to identify all trivial activities klist. Check each item and s responds to the Plant Layout	sub-item that :	annies Ifar	inlicable provide	26 IAC 2-7-1 the Emissio	(40). <b>Pleas</b> ns Unit Ide	se use this		
Unit ID	Description of Trivial Activity									
	6. Activities performed using hand-held equipment including the following:									
	Application of hot melt adhesives with no VOC in the adhesive formulation									
	1	☑ Cutting, excluding cutting torches		Buffing	☑ Grinding	ı 🗆	Sanding			
		☐ Machining wood, metal, or plastic		] Carving	☐ Polishin	-	Sawing			
	Γ	Turning wood, metal, or plastic	ning wood, metal, or plastic 🔲 Drilling 🔲 Routing 🖂 Surface gr							
	7 Housekapping and ingitarial at the									
	<ul> <li>✓ Vacuum cleaning systems used exclusively for housekeeping or custodial activities, or both</li> </ul>									
	<ul> <li>✓ Steam cleaning activities</li> <li>✓ Rest rooms and associated cleanup operations and supplies</li> </ul>									
	☐ Alkaline or phosphate cleaners and associated equipment									
	□ Pest control fumigation     □									
	9 Office related askidling in 1 1 1 1 1 1 1 1 1									
	o. Office related activities including the following:  ☐ Office supplies and equipment  ☐ Office supplies and equipment									
	<u> </u>	_		l cumpline		,				
	×	<u>.</u>	ilu associated	1 Supplies			***************************************	-		
			hia aquinr							
	Blueprint machines, photographic equipment, and associated supplies									
	Lawn care and landscape maintenance activities and equipment, including the storage, spraying or application of insecticides, pesticides and herbicides									
	10. Storage equipment and activities including:							2-7-1(40)(J)		
		Pressurized storage tanks a	and associate	d piping for t	he following:					
		☐ Acetylene	☐ Inorganic co	ompounds		☐ Natural ga	s			
		☐ Anhydrous ammonia	☐ Liquid petro	oleum gas (LPG)	•	☐ Nitrogen d	ioxide			
		☐ Carbon Monoxide	☐ Liquid natur	ral gas (LNG) (p	ropane)	☐ Sulfur diox	ide			
		Chlorine	. 7000							
		Storage tanks, vessels, and contain any VOC or HAP	containers h	olding or stor	ing liquid substar	nces that do	not			
		Storage tanks, reservoirs, ar soap, wax, vegetable oil, gre provided appropriate lids and	ease, animal t	fat. and nonv	equipment of any olatile aqueous s	/ size contair alt solutions	ning			
	$\boxtimes$	Storage of drums containing	maintenance	e raw materia	ıls	The state of the s				
		Storage of the following:								
	v	☐ Castings		1000						
		☐ Lance rods	,,,,,,,,		TANK TANK			******		
	7,000	☐ Any non-HAP containing mate	rial in solid form	stored in a seal	ed or covered contain	ner	7777			
	$\boxtimes$	Portable containers used for container capacity is equal to container is closed except with	the collection o or less than	ո, storage, or fortv-six hun	disposal of mate	rials provide	d the and the			

le as	entifies to identify all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). <b>Please u a checklist.</b> Check each item and sub-item that applies. If applicable, provide the Emissions Unit Ident that corresponds to the Plant Layout and Process Flow diagrams.	mcauon
Unit ID	Description of Trivial Activity	Citation (326 IAC)
	11. Emergency and standby equipment including:	2-7-1(40)(K)
	<ul> <li>Emergency (backup) electrical generators at residential locations, such as dormitories, prisons and hospitals.</li> </ul>	
	Safety and emergency equipment, except engine driven fire pumps, including fire suppression systems and emergency road flares.	
	Process safety relief devices installed solely for the purpose of minimizing injury to persons or damage to equipment which could result from abnormal process operating conditions, including the following:	
	☐ Explosion relief vents, diaphragms or panels ☐ Rupture discs ☐ Safety relief valves	
	Activities and equipment associated with on-site medical care not otherwise specifically regulated	
	☐ Vacuum producing devices for the purpose of removing potential accidental releases	
	12. Sampling and testing equipment and activities including the following:	2-7-1(40)(L)
	<ul> <li>Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis</li> </ul>	
	☐ Hydraulic and hydrostatic testing equipment	
	☐ Ground water monitoring wells and associated sample collection equipment	
٠	☐ Environmental chambers not using hazardous air pollutant (HAP) gases	
	☐ Shock chambers	
	☐ Humidity chambers	
	☐ Solar simulators	
	⊠ Sampling activities including	
	☐ Sampling of waste ☐ Glove box sampling, charging, and packaging	
	☐ Instrument air dryers and distribution	
	13. Use of consumer products and equipment where the product or equipment is used at a source in the same manner as normal consumer use and is not associated with any production process	2-7-1(40)(M)
	14. Equipment and activities related to the handling, treating, and processing of animals including:	2-7-1(40)(N)
	Equipment used exclusively to slaughter animals, but not including the following: Rendering cookers, Boilers, Heating plants, Incinerators, and/or Electrical power generating equipment	
	☐ Veterinary operating rooms	<u> </u>
	15. Activities generating limited amounts of fugitive dust including:	2-7-1(40)(O
	Fugitive emissions related to movement of passenger vehicles, provided the emissions are not counted for applicability purposes under 326 IAC 2-7-1(22)(B), and any required fugitive dust control plan or its equivalent is submitted	
	☐ Soil boring	
	⊠ Road salting and sanding	

CHECKIE	Part A: Trivial Activities (continued)  dentifies all trivial activities in operation at the source as defined in 326 IAC 2-7-1(40). Please use this  st. Check each item and sub-item that applies. If applicable, provide the Emissions Unit Identification  pends to the Plant Layout and Process Flow diagrams.	s <b>table as a</b> number thຍ
Unit ID	Description of Trivial Activity	Citation (326 IAC)
	16. Activities associated with production including the following:	2-7-1(40)(P)
	Closed, non-vented, tumblers used for cleaning or deburring metal products without abrasive blasting	
***************************************	☐ Electrical resistance welding	· · · · · · · · · · · · · · · · · · ·
	☐ CO₂ lasers, used only on metals and other materials which do not emit HAPs in the process	
	☐ Laser trimmers which do not produce fugitive emissions and are equipped with dust collection devices such as bag filter, cyclone, or equivalent device	V
	☐ Application equipment for hot melt adhesives with no VOC in the adhesive formulation	
	☐ Drop hammers or hydraulic presses for forging or metalworking	
	<ul> <li>Air compressors and pneumatically operated equipment, including hand tools</li> </ul>	
	Compressor or pump lubrication and seal oil systems	
	<ul> <li>Equipment used to mix and package soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized</li> </ul>	
	Equipment for washing or drying fabricated glass or metal products, if no VOCs or HAPs are used in the process, and no gas, oil or solid fuel is burned	70
	<ul> <li>Handling of solid steel, including coils and slabs, excluding scrap burning, scarfing, and charging into steel making furnaces and vessels</li> </ul>	
	17. Miscellaneous equipment, but not emissions associated with the process for which the equipment is used, and activities including the following:	2-7-1(40)(Q)
	<ul> <li>Equipment used for surface coating, painting, dipping or spraying operation, except those that will emit VOCs or HAPs</li> </ul>	***************************************
	☐ Condensate drains for natural gas and landfill gas	
	☐ Electric or steam heated drying ovens and autoclaves, including only the heating emissions and not any associated process emissions	
	<ul> <li>Salt baths using nonvolatile salts including caustic solutions that do not result in emissions of any regulated air pollutants</li> </ul>	
	Ozone generators	***************************************
	Portable dust collectors	
	<ul> <li>Scrubber systems circulating water based solutions of inorganic salts or bases which are installed to be available for response to emergency situations</li> </ul>	
	☐ Soil borrow pits	
		***************************************
	☐ Purging of refrigeration devices using a combination of nitrogen and CFC-22 (R-22) as pressure test media	V-100-1
	☑ Construction and demolition operations	
	☐ Mechanical equipment gear boxes and vents which are isolated from process materials	
	☐ Non-volatile mold release waxes and agents	

	Part B: Insignificant Activities	
Jle as	dentifies all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). <b>Please</b> a <b>checklist</b> . Indicate which activities are present by checking the appropriate box. If applicable, provins Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.	e use this ide the
Unit ID	Description of Insignificant Activity	Citation (326 IAC)
	18. Combustion related activities, including the following:	2-7-1(21)(G)(i)
	⊠ Space heaters, process heaters, or boilers using the following fuels             □	
	Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour	
	Propane or liquified petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour	
	Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths percent (0.5%) sulfur by weight	
	☐ Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) Btu/hour, except where total capacity of equipment operated by one stationary source exceeds two million (2,000,000) Btu/hour	
	Combustion source flame safety purging on startup	<u> </u>
	19. Fuel dispensing activities, including the following:	2-7-1(21)(G)(ii)
	A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment	
	A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less	
	20. The following VOC and HAP storage containers:	2-7-1(21)(G)(iii)
	Storage tanks with capacity less than or equal to one thousand (1,000) gallons and annual throughputs less than twelve thousand (12,000) gallons	, , , , , , , , , , , , , , , , , , , ,
	☐ Vessels storing the following:	
	☐ Hydraulic oils ☐ Lubricating oils ☐ Machining oils ☐ Machining fluids	
	21. Refractory storage not requiring air pollution control equipment	2-7-1(21)(G)(iv)
	22. Equipment used exclusively for the following	2-7-1(21)(G)(v)
	☐ Packaging the following: ☐ Greases ☐ Lubricants	
	Filling drums, pails or other packaging containers with the following:	
	☐ Greases ☐ Lubricating oils ☐ Waxes	

	Part B: Insignificant Activities (continued)	
Table as	dentifies all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). Pleas a checklist. Indicate which activities are present by checking the appropriate box. If applicable, plans Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.	ase use this rovide the
Unit ID	Description of Insignificant Activity	Citation (326 IAC)
	23. Production related activities, including the following:	2-7-1(21)(G)(vi)
	☐ Application of the following as temporary protective coatings:	
	☐ Greases ☐ Lubricants ☐ Nonvolatile materials ☐ Oils	
	☐ Machining where an aqueous cutting coolant continuously floods the machining interface	
	Degreasing operations that do not exceed one hundred forty-five (145) gallons per twelve (12) months, except if subject to 326 IAC 20-6	
:	Having a vapor pressure equal to or less than two kilo Pascals (2.0 kPa) (fifteen millimeters of mercury (15 mm Hg) or three-tenths pound per square inch (0.3 psi)) measured at thirty-eight degrees Centigrade (38°C) (one hundred degrees Fahrenheit (100°F))	
	Having a vapor pressure equal to or less than seven-tenths kilo Pascals (0.7 kPa) (five millimeters of mercury (5 mm Hg) or one-tenth pound per square inch (0.1 psi)) measured at twenty degrees Centigrade (20°C) (sixty-eight degrees Fahrenheit (68°F))	
,	☐ The following equipment related to manufacturing activities not resulting in the emission of HAPs:	
	⊠ Brazing equipment ⊠ Cutting torches ⊠ Soldering equipment ⊠ Weld	ling equipment
	Closed loop heating and cooling systems	
	☐ Infared cure equipment	
	Exposure chambers (towers or columns) for curing of ultraviolet inks and ultra-violet coatings where heat is the intended discharge	
	Any of the following structural steel and bridge fabrication activities:	
	☐ Cutting two hundred thousand (200,000) linear feet or less of one (1) inch plate or equivalent	
	☐ Using eighty (80) tons or less of welding consumables	
	24. Activities associated with the following recovery systems:	2-7-1(21)(G)(vii)
	Rolling oil recovery systems	
	Groundwater oil recovery wells	
	25. Solvent recycling systems with batch capacity less than or equal to one hundred (100) gallons	2-7-1(21)(G)(viii)

	Part B: Insignificant Activities (continued)	
this	intended to identify all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(2 <b>table as a checklist.</b> Indicate which activities are present by checking the appropriate box. If appli sions Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.	.1)(G). <b>Please</b> cable, provide
Unit ID	Description of Insignificant Activity	Citation (326 IAC)
	26. Water-based activities, including the following:	2-7-1(21)(G)(ix)
*******	Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to one percent (1%) by volume	
	☐ Water runoff ponds for petroleum coke-cutting and coke storage piles	
	<ul> <li>Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the owner/operator, that is, an on- site sewage treatment facility</li> </ul>	
	Any operation using aqueous solutions containing less than one percent (1%) by weight of VOCs excluding HAPs	
	☐ Water based adhesives that are less than or equal to five percent (5%) by volume of VOCs excluding HAPs	
	☐ Noncontact cooling tower systems with either of the following:	
	☐ Natural draft cooling towers not regulated under a NESHAP	
	☐ Forced and induced draft cooling tower systems not regulated under a NESHAP	
	Quenching operations used with heat treating processes	
	27. Repair activities, including the following:	2-7-1(21)(G)(x)
	Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment	
	☐ Heat exchanger cleaning and repair	
	□ Process vessel degassing and cleaning to prepare for internal repairs	
	28. Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device, such as a bag filter or cyclone	2-7-1(21)(G)(xi)
	29. Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal	2-7-1(21)(G)(xii)
	30. Paved and unpaved roads and parking lots with public access	2-7-1(21)(G)(xiii)
	31. Conveyors as follows:	2-7-1(21)(G)(xiv)
	☐ Covered conveyors for solid raw material, including the following:	
	☑ Coal or coke conveying of less than or equal to three hundred sixty (360) tons per day	
	Limestone conveying of less than or equal to seven thousand two hundred (7,200) tons per day for sources other than mineral processing plants constructed after August 31, 1983	
	Uncovered coal or coke conveying of less than or equal to one hundred twenty (120) tons per day	
	☐ Underground conveyors	
	☐ Enclosed systems for conveying plastic raw materials and plastic finished goods	
	32. Coal bunker and coal scale exhausts and associated dust collector vents	2-7-1(21)(G)(xv)
	33 Asbestos abatement projects regulated by 326 IAC 14-10	2-7-1(21)(G)(xvi)

		Part B: Insignificant Activities (continued)	
use this	table	nded to identify all insignificant activities in operation at the source as defined in 326 IAC 2-7-10 e as a checklist. Indicate which activities are present by checking the appropriate box. If applies Unit Identification number that corresponds to the Plant Layout and Process Flow diagrams.	21)(G). <b>Please</b> licable, provid
Unit ID	Des	scription of Insignificant Activity	Citation (326 IAC)
:	34.	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, including the following:	2-7-1(21)(G)(xvii)
		☐ Purging of gas lines ☐ Purging of vessels	<u> </u>
	35.		2-7-1(21)(G)(xviii)
		☐ Sodium sulfate ☐ Ammonia ☐ Sulfur trioxide.	
	36.	Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including the following:	2-7-1(21)(G)(xix)
		☐ Catch tanks ☐ Temporary liquid separators ☐ Tanks ☐ Fluid handling eq	uipment
	37.		2-7-1(21)(G)(xx)
		☐ Sight glass ☐ Boiler ☐ Compressors ☐ Pumps ☐ Cooling tower	
	38.	Furnaces used for melting metals other than beryllium with a brim full capacity of less than or equal to four hundred fifty (450) cubic inches by volume	2-7-1(21)(G)(xxi)
	39.	Activities associated with emergencies, including the following:	2-7-1(21)(G)(xxii)
	L	☐ On-site fire training approved by the IDEM	
	<u></u>		
		☐ Gasoline generators not exceeding one hundred ten (110) horsepower	
		☐ Diesel generators not exceeding one thousand six hundred (1,600) horsepower	
		Natural gas turbines or reciprocating engines not exceeding sixteen thousand (16,000) horsepower	
		☐ Stationary fire pump engines	
		Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to three one-hundredths grains per actual cubic foot (0.03 gr/acf) and a gas flow rate less than or equal to four thousand actual cubic feet per minute (4,000 acf/min), including the following:	2-7-1(21)(G)(xxiii)
		☐ Deburring ☐ Polishing ☐ Pneumatic conveying	- ·
		☐ Buffing ☐ Abrasive blasting ☐ Woodworking operations	
	41.	Purge double block and bleed valves	2-7-1(21)(G)(xxiv)
	42.	Filter or coalescer media changeout	2-7-1(21)(G)(xxv)
	43.	Vents from ash transport systems not operated at positive pressure	2-7-1(21)(G)(xxvi)
	44.	Mold release agents using low volatile products (vapor pressure less than or equal to two kilo Pascals (2kPa) measured at thirty-eight degrees Centigrade (38°C)	2-7-1(21)(G)(xxvii)
		Farm operations	2-7-1(21)(G)(xviii)

		Part B: Insignificant Activities (continued)	
le as	a che	es all insignificant activities in operation at the source as defined in 326 IAC 2-7-1(21)(G). <b>Pleaticklist.</b> Indicate which activities are present by checking the appropriate box. If applicable, protection number that corresponds to the Plant Layout and Process Flow diagrams.	se use this ovide the
Unit ID		cription of Insignificant Activity	Citation (326 IAC)
	<b></b>	Woodworking equipment controlled by a baghouse provided that the following criteria are met:	2-7-1(21)(G)(xxix)
		☐ The baghouse does not exhaust to the atmosphere greater than one hundred twenty-five (125,000) cubic feet per minute	thousand
		☐ The baghouse does not emit particulate matter with a diameter less than ten (10) microns three-thousandths grains per dry standard cubic feet (0.003 gr/dscf) of outlet air	s in excess of
		Opacity from the baghouse does not exceed ten percent (10%)	
		☐ The baghouse is in operation at all times the woodworking equipment is in use	
		☐ Visible emissions from the baghouse are observed daily using procedures in accordance 60, Appendix A, Method 22 and normal or abnormal emissions are recorded. In the ever emissions are observed for greater than six (6) minutes in duration, the following shall occur	nt abnormal
···		☐ The baghouse shall be inspected	
<b>,,,,,</b>		☐ Corrective actions, such as replacing or reseating bags, are initiated, when necessary	
		The baghouse is inspected quarterly when vented to the atmosphere	Lucion Comments
www.		☐ The owner or operator keeps the following records:	
		Records documenting the date when the baghouse redirected indoors or to the atmosphere	
		Quarterly inspection reports, when vented to the atmosphere	
***************************************		☐ Visible observation reports	
***************************************		Records of corrective actions	
	47.	Woodworking equipment controlled by a baghouse provided that the following criteria are met:	2-7-1(21)(G)(xxx)
		☐ The baghouse does not exhaust to the atmosphere greater than forty thousand (40,000) minute	cubic feet per
		The baghouse does not emit particulate matter with a diameter less than ten (10) micron one-hundredth grains per dry standard cubic feet (0.01 gr/dscf) of outlet air	is in excess of
		Opacity from the baghouse does not exceed ten percent (10%)	
		☐ The baghouse is in operation at all times the woodworking equipment is in use	
		□ Visible emissions from the baghouse are observed daily using procedures in accordance 60, Appendix A, Method 22 and normal or abnormal emissions are recorded. In the eve emissions are observed for greater than six (6) minutes in duration, the following shall or	nt abnormal
		☐ The baghouse shall be inspected	
		☐ Corrective actions, such as replacing or reseating bags, are initiated, when necessary	
ALCO TOTAL CONTRACTOR OF THE PARTY OF THE PA		☐ The baghouse is inspected quarterly when vented to the atmosphere	
		☐ The owner or operator keeps the following records:	
		Records documenting the date when the baghouse redirected indoors or to the atmosphere	•
		Quarterly inspection reports, when vented to the atmosphere	
		☐ Visible observation reports	
		Records of corrective actions	

	Port C. Insignific	
Piease ເ	entifies insignificant activities in operse this table as a checklist. Indicate	eration at the source as defined in 326 IAC 2-7-1(21), paragraph (D), (E), or (F) cate which activities are present by checking the appropriate box. If applicable mber that corresponds to the Plant Layout and Process Flow diagrams.
Unit ID	Description of Insignificant Act	tivity
	48.   Emissions from a labora	itory as defined in 2-7-1(21)(D).
	49.   Emissions from research	n and development activities as defined in 2-7-1(21)(E).
		onal and teaching activities as defined in 2-7-1(21)(F).
identified Plant Lay	entifies all other insignificant activiti is those activities with potential und above in Parts A, B, or C. If applic out and Process Flow diagrams.	Part D: Other Insignificant Activities ies in operation at the source (as defined in 326 IAC 2-7-1(21), paragraphs (A) controlled emissions equal to or less than the thresholds listed below) that are not cable, provide the Emissions Unit Identification number that corresponds to the
Carbon	Monoxide (CO) ≤ 25 lb/day	Particulate Matter with aerodynamic diameter ≤ 10μm (PM₁₀) ≤ 5 lbs/hr or 25 lb/day
Lead (P	b) ≤ 0.6 ton/yr or 3.29 lb/day	Sulfur Dioxide (SO₂) ≤ 5 lbs/hr or 25 lb/day
Nitroger	Oxides (NO <sub>x</sub> ) ≤ 5 lbs/hr or 25 lb/day	Volatile Organic Compounds (VOC) ≤ 3 lbs/hr or 15 lb/day
	r Insignificant Activities: Identify	any "other activities", and provide a brief description.
Unit ID	Description of Other Activity	

 	nt Activities	
neignifica		

t D identifies all insignificant activities in operation at the source (as defined in 326 IAC 2-7-1(21)(C)) that have the ential to emit hazardous air pollutants (HAP). These activities may or may not be identified above in Parts A, B, or D. **Activities listed in Part C above, need not be listed in this section.** Indicate which type of "Insignificant HAP Activities" are present by checking the appropriate box, and provide a brief description.

52. **Individual HAP Emissions**:
Identify any emissions unit, not regulated by a NESHAP, emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP.

Emissions Unit	НАР	Brief Description	Applicable Requirements

# 53. Combination HAP Emissions:

Identify any emissions unit, not regulated by a NESHAP, emitting greater than 1 pound per day but less than 12.5 pounds per day or 2.5 ton per year of a combination of HAPs.

Emissions Unit	HAPs	Brief Description	Applicable Requirements

Indiana Department of Environmental Management Office of Air Quality State Form 51596 (R4 / 1-10) Part E: Specifically Regulated Insignificant Activities

Part E identifi process heate regulated insi	es all specificall ers, any activity i gnificant activity	Part E identifies all specifically regulated insignificant activities. Examples of specifically regulated activities that may have insignificant emissions include boilers, process heaters, any activity regulated under a federal rule such as MACT or BACT, etc. If you are not sure if an emissions unit would be considered a specifically regulated insignificant activity, contact the Air Permit Reviewer of the Day for additional guidance.	amples of specifically MACT or BACT, etc. e Day for additional g	ly regulated activities the control of the control	that may have insign if an emissions unit	ificant emissions inc would be considere	clude boilers, d a specifically
54. Unit ID	55. Stack /	56. Pollutant	57. Actual Emissions	ions	58. Potential to Emit	mit	59. Citation
	Ventin		Standard Units	Tons Per Year	Standard Units	Tons Per Year	
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		TANTON TO TANTON					***************************************
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# OAQ GENERAL SOURCE DATA APPLICATION GSD-13: Affidavit of Applicability

State Form 51603 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

### NOTES:

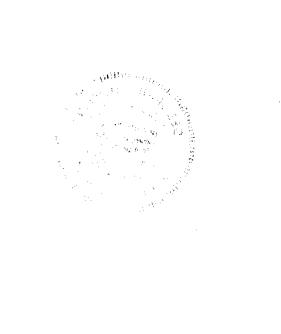
- The purpose of GSD-13 is to certify that the requirement to notify adjacent landowners and occupants is applicable to the source of air pollutant emissions.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC
  17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public
  inspection.

PART A: Affidavit Of Applicability			
Complete this form to certify that the requirement to notify adjacent landowners and occupants pursuant to Indiana Code (IC) 13-15-8 is applicable to the source of air pollutant emissions. This form must be notarized by a public notary.			
	sworn upon oath, deposes and says:		
I live in Marion County, State of Indiana , and being of of age, I am competent to give this affidavit.	sound mind and over twenty-one (21) years		
2. I hold the position of <u>President</u> for <u>Waelz Sustainable Produ</u> name).	cts, LLC (permit applicant's or facility's		
3. By virtue of my position with Waelz Sustaianble Products, LLC (perm to make the representation contained in this affidavit on behalf of the facility	nit applicant's name), I am authorized		
. I understand that the notice requirements of Ind. Code §13-15-8 applies to Waelz Sustainable Prouducts, LLC permit applicant's or facility's name) for purposes of the accompanying permit application.			
5. As required by Indiana Code § 13-15-8, the permit applicant will send written notice to adjacent landowners not more than ten (10) days after submission of the accompanying application for construction of the WSP facility (briefly describe type of permit application) filed on behalf of Waelz Sustainable Product, LLC (permit applicant's or facility's name).			
6. Further Affiant Saith Not.			
I affirm under the penalty for perjury that the representations contained in this affidavit are true, to the best of my information and belief.			
Nigel Morrison Name (typed)  Signature  President Title  4/8/ Date	2019		
STATE OF Indiana COUNTY OF Mai	rion		

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	PART B: No	otarization	
This section must be comp	leted by a Public Notary.		
Before me a notary Public iduly sworn by me upon oat	in and for said County and State, pe h, says that the fact stated in the for 	rsonally appeared <u>Nigel Mo</u> regoing instrument are true. Sig	orrison , and being first gned and sealed this
Printed: Deborah	C Dobbins	My Commission Expires:	09-06-2023
Residence of	Hendricks	County Indian	a
	Comm # 671570  Comm # 671570  Comm # 671570  Comm # 671570  A) Commission  A) Com	Delboral Co	Oobbins

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State Form 51609 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana)

Facsimile Number: (317) 232-6749 www.lN.gov/idem

- The purpose of GSD-14 is to identify adjacent landowners and occupants that are to be notified that an air permit application has been submitted.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Owners And Occupants Notified			
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: Red Tail Land Conservancy, Ir	nc.	2. Date Notified: 4/20/2019	
3. Address: 125 E Charles Street, Suite 200			
City: Muncie	State: IN	<b>ZIP Code</b> : 47305 –	
4. Electronic Mail:			
6. Method of Notification:	ic Mail 🛛 Standard M	ail Other (specify):	
Owner / Occupant Name: Elm Ridge Funeral Home & Ceme	tery, LLC	Date Notified: 4/20/2019	
Address: 10291 N Meridian Street, Suite 200			
City: Indianapolis	State: IN	<b>ZIP Code</b> : 46290 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:		il   Other (specify):	
Method of Nothication.			
Owner / Occupant Name: Elm Ridge Funeral Home & Ceme	iory, LLO		
Address: 4500 W Kilgore Ave	State: IN	<b>ZIP Code</b> : 47304 –	
City: Muncie		\	
Electronic Mail: Telephone Number: ( ) -			
Method of Notification:   Telephone  Electronic	Mail 🛛 Standard Ma		
Owner / Occupant Name: Muncie Sanitary District Date Notified: 4/20/2019			
Address: 5050 W Kilgore Ave			
City: Muncie	State: IN	ZIP Code: 47304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification: ☐ Telephone ☐ Electronic Mail ☐ Standard Mail ☐ Other (specify):			
Owner / Occupant Name: Muncie Sanitary District		Date Notified: 4/20/2019	
Address: 300 N Hight Street			
City: Muncie	State: IN	<b>ZIP Code</b> : 47305 –	
Electronic Mail:	Telephone Number: (	)	
Method of Notification: Telephone Electronic		til Other (specify):	

		·



State Form 51609 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

- The purpose of GSD-14 is to identify adjacent landowners and occupants that are to be notified that an air permit application has been submitted.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Owners And Occupants Notified			
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: Indiana Michigan Power Comp	pany	2. Date Notified: 4/20/2019	
3. Address: PX Box 16428			
City: Columbus	State: OH	<b>ZIP Code</b> : 16428 –	
4. Electronic Mail:	5. Telephone Numbe	er: ( ) -	
6. Method of Notification:   Telephone  Electroni	c Mail 🛛 Standard M	ail Other (specify):	
Owner / Occupant Name:		Date Notified: 4/20/2019	
Address: 5200 W Kilgore Ave			
City: Muncie	State: IN	ZIP Code: 47304	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:   Telephone  Electronic	Mail 🛛 Standard Mai	I   Other (specify):	
Owner / Occupant Name: Womack Edward J and Rhonda G Date Notified: 4/20/2019			
Address: 12120 W Woodcreek Dr.			
City: Yorktown	State: IN	<b>ZIP Code</b> : 47396 –	
Electronic Mail: Telephone Number: ( ) -			
Method of Notification:   Telephone  Electronic	Mail 🛛 Standard Mai	l Other (specify):	
Owner / Occupant Name: Ed's Carpet & Flooring		Date Notified: 4/20/2019	
Address: 5214 W Kilgore Ave			
City: Muncie	State: IN	<b>ZIP Code</b> : 47304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:     Telephone   Electronic	Mail 🛛 Standard Mai	Other (specify):	
Owner / Occupant Name: SLAVEN RICK D		Date Notified: 4/20/2019	
Address: 5300 W KILGORE AV			
City: Muncie	State: IN	ZIP Code: 47304 –	
Electronic Mail:	Telephone Number: (		
Method of Notification:   Telephone  Electronic	Mail 🛛 Standard Mai	il Other (specify):	



State Form 51609 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.IN.gov/idem

- The purpose of GSD-14 is to identify adjacent landowners and occupants that are to be notified that an air permit application has been submitted.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Owners And Occ	cupants Notified		
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: MIDDLEFIELD INDUSTRIAL		2. Date Notified: 4/20/2019	
3. Address: 1052 Mahoning Ave NW			
City: Warren	State: OH	<b>ZIP Code</b> : 44483 –	
4. Electronic Mail:	5. Telephone Numb	er: ( ) -	
6. Method of Notification:   Telephone   Electron	ic Mail 🛛 Standard M	lail Other (specify):	
Owner / Occupant Name: COOK & SONS LLC		Date Notified: 4/20/2019	
Address: 1826 S Main St			
City: Akron	State: OH	<b>ZiP Code</b> : 44301 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:		I Other (specify):	
Owner / Occupant Name: Hickory Haven Mobile Home Park		Date Notified: 4/20/2019	
Address: 5600 W KILGORE AVE			
City: Muncie	State: IN	ZIP Code: 47304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:   Telephone  Electronic		I Other (specify):	
Owner / Occupant Name: SPEARS TONY R AND ANITA L		Date Notified: 4/20/2019	
Address: 1419 S GLENDALE DR			
City: Muncie	State: IN	ZIP Code: 47304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:     Telephone   Electronic		Other (specify):	
Owner / Occupant Name: JONES JOSHUA		Date Notified: 4/20/2019	
Address: 1307 CAMPANIA			
City: New Braunfels	State: TX	<b>ZIP Code</b> : 78132 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:		Other (specify):	



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Facsimile Number: (317) 232-6749
www.lN.gov/idem

- The purpose of GSD-14 is to identify adjacent landowners and occupants that are to be notified that an air permit application has been submitted.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
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  Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Owners And Occupants Notified			
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: Current Owner/Occupants		2. Date Notified: 4/20/2019	
3. Address: 1509 S GLENDALE DR			
City: Muncie	State: IN	ZIP Code: 47304 -	
4. Electronic Mail:	5. Telephone Number	er: ( ) -	
6. Method of Notification:   Telephone  Electron	ic Mail 🛛 Standard M	ail 🔲 Other (specify):	
Owner / Occupant Name: KING BOB REVOCABLE LIVING	TRUST	Date Notified: 4/20/2019	
Address: 2910 S SCOTT DR			
City: Yorktown	State: IN	ZIP Code: 47396 -	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:     Telephone   Electronic Mail   Standard Mail   Other (specify):			
Owner / Occupant Name: Northgate Motors		Date Notified: 4/20/2019	
Address: 5701 W 11TH ST			
City: Muncie	State: IN	ZIP Code: 47304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:		I Other (specify):	
Owner / Occupant Name: BOBCAT PROPERTIES LLC		Date Notified: 4/20/2019	
		L.	
Address: 520 S NICHOLS SUITE G	State: IN	ZIP Code: 47303	
City: Muncie	Telephone Number: (	) -	
Liectionic widi.			
Method of Notification:	: IVIAII 🖂 Staildaid IVIA	Date Notified: 4/20/2019	
Owner / Occupant Name: Current Owner/Occupants		Date Notified. 4/20/2019	
Address: 1615 S GLENDALE DR			
City: Muncie	State: IN	ZIP Code: 47304 –	
Electronic Mail: Telephone Number: ( ) -			
Method of Notification:	: Mail 🛛 Standard Ma	il Other (specify):	



State Form 51609 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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www.IN.gov/idem

- The purpose of GSD-14 is to identify adjacent landowners and occupants that are to be notified that an air permit application has been submitted.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Owners And Occ	cupants Notified		
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: BURTON DANIELLE		2. Date Notified: 4/20/2019	
3. Address: 1619 S GLENDALE DR			
City: Muncie	State: IN	ZIP Code: 47304 –	
4. Electronic Mail:			
6. Method of Notification:   Telephone   Electron			
Owner / Occupant Name: STINSON GARRY D		Date Notified: 4/20/2019	
Address: 3700 W BETHEL AVE		Date Notified. 4/20/2019	
City: Muncie	State: IN	<b>ZIP Code</b> : 47304 –	
Electronic Mail:	Telephone Number: (	) _	
Method of Notification:		I Other (specify):	
Owner / Occupant Name: Current Owner/Occupant	23 ottalidald Mai		
Address: 5700 W 12TH ST  Date Notified: 4/20/2019			
City: Muncie	State: IN	<b>ZIP Code</b> : 47304 –	
Electronic Mail:	Telephone Number: (		
Method of Notification:			
Owner / Occupant Name: JIM WALLACE COMPANY LLC	July 23 Clandard Mai		
Address: 7760 CARTER RD		Date Notified: 4/20/2019	
City: Northfield	State: OH	<b>ZIP Code</b> : 44067 –	
Clashus wis #8-11.	Telephone Number: (	ZIF Code. 44067 –	
Method of Notification:     Telephone   Electronic			
Owner / Occupant Name: IPPEL FAMILY TRUST			
Address: 5680 W Cornbread Rd		Date Notified: 4/20/2019	
014 V1-4	State: IN	7ID 0 - 4 - 47000	
		ZIP Code: 47396 –	
Mothod of Notification: Talaka Ta			
	Mail 🛛 Standard Mail	Other (specify):	



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Owners And Occupants Notified			
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: SIMLEY CORP.		2. Date Notified: 4/20/2019	
3. Address: PO BOX 1135			
City: FULSHEAR	State: TX	ZIP Code: 77441 -	
4. Electronic Mail:	5. Telephone Number	er: ( ) -	
6. Method of Notification:   Telephone  Electron	c Mail 🛮 🖂 Standard M	ail Other (specify):	
Owner / Occupant Name: TCLJ WILLIAMS PROPERTIES I	LLC	Date Notified: 4/20/2019	
Address: 36 VIA SANTA MARIA			
City: SAN CLEMENTE	State: CA	<b>ZIP Code</b> : 92672 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:	Mail 🛛 Standard Ma	Other (specify):	
Owner / Occupant Name: Current Owner/Occupant		Date Notified: 4/20/2019	
Address: 2380 S PROCTOR RD			
City: Muncie	State: IN	ZIP Code: 47304	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:   Telephone  Electronic	Mail 🛛 Standard Ma	il Other (specify):	
Owner / Occupant Name: HOLLAND RICHARD E Date Notified: 4/20/2019			
Address: 1700 S PERDIEU RD			
City: Muncie	State: IN	ZIP Code: 47304 -	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:	Mail 🛛 Standard Ma	il Other (specify):	
Owner / Occupant Name: HUFF LAURA B & MARY D		Date Notified: 4/20/2019	
Address: 504 N MEADOW WOOD DR			
City: Muncie	State: IN	<b>ZIP Code</b> : 47304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:	Mail 🗵 Standard Ma	all Other (specify):	



State Form 51609 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

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Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.iN.gov/idem

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Owners And Occupants Notified			
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: BURRESS ROGER L AND H		2. Date Notified: 4/20/2019	
3. Address: 1500 S WOODRUFF DR			
City: Muncie	State: IN	ZIP Code: 47304 –	
4. Electronic Mail:			
6. Method of Notification:   Telephone  Electron			
Owner / Occupant Name: HOOD JACKIE		Date Notified: 4/20/2019	
Address: 1600 S WOODRUFF DR		TOTAL	
City: Muncie	State: IN	ZIP Code: 47304	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:	Mail 🛛 Standard Mai	i  Other (specify):	
Owner / Occupant Name: LANGE STEVEN D		Date Notified: 4/20/2019	
Address: 3801 S COUNTY ROAD 575 E			
City: SELMA	State: IN	<b>ZIP Code</b> : 47383 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification: ☐ Telephone ☐ Electronic Mail ☐ Standard Mail ☐ Other (specify):			
Owner / Occupant Name: Current Owner/Occupant Date Notified: 4/20/2019			
Address: 1604 S WOODRUFF DR			
City: Muncie	State: IN	ZIP Code: 67304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification:   Telephone  Electronic Mail  Standard Mail  Other (specify):			
Owner / Occupant Name: MUSICK JANICE E AND MATTHE	W L HOLDING	Date Notified: 4/20/2019	
Address: 1627 S Woodruff Dr			
City: Muncie	State: IN	ZIP Code: 47304 –	
Electronic Mail:	Telephone Number: (	) -	
Method of Notification: 🔲 Telephone 🔲 Electronic 🛭		Other (specify):	



State Form 51609 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003

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Owners And Occ			
Use this table to identify adjacent landowners and occupants that you have notified of your intent to construct pursuant to Indiana Code (IC) 13-15-8. If you need additional space, you may make copies of this form.			
1. Owner / Occupant Name: Current Owner/Occupant	2. Date Notified: 4/20/2019		
3. Address: 1608 S WOODRUFF DR	<u> </u>		
City: Muncie	State: IN ZIP Code: 47304 –		
4. Electronic Mail:	5. Telephone Number: ( ) -		
6. Method of Notification:   Telephone  Electron	ic Mail 🛛 Standard Mail 🔲 Other (specify):		
Owner / Occupant Name: STOCKRAHM TIM & SHARON ST	TOCKRAHM Date Notified: 4/20/2019		
Address: 1620 S WOODRUFF DR			
City: Muncie	State: IN		
Electronic Mail:	Telephone Number: ( ) -		
Method of Notification:	Mail Standard Mail Other (specify):		
Owner / Occupant Name: HOLDING MATTHEW L  Date Notified: 4/20/2019			
Address: 6161 W KILGORE AVE			
City: Muncie	State: IN ZIP Code: 47304 –		
Electronic Mail:	Telephone Number: ( ) -		
Method of Notification:     Telephone   Electronic	Mail Standard Mail Other (specify):		
Owner / Occupant Name: Current Owner/Occupant Date Notified: 4/20/2019			
Address: 1628 S WOODRUFF DR			
City: Muncie	State: IN ZIP Code: 47304 -		
Electronic Mail:	Telephone Number: ( ) -		
Method of Notification:   Telephone  Electronic	: Mail 🛛 Standard Mail 🔲 Other (specify):		
Owner / Occupant Name:	Date Notified:		
Address:			
City:	State: ZIP Code: -		
Electronic Mail:	Telephone Number: ( ) -		
Method of Notification:			



# OAQ GENERAL SOURCE DATA APPLICATION **GSD-15: Government Officials Notified**

State Form 51608 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.IN.gov/idem

- The purpose of GSD-15 is to identify local government officials that are to be notified that an air permit application has been
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

Government Officials Notified			
Use this table to identify local government officials that should be notified pursuant to Indiana Code (IC) 13-15-3-1 that an air permit application has been submitted. If you need additional space, you may make copies of this form.			
1. Name: Marta Moody		2. Date Notified:	
3. Title: Executive Director		2. Date Nothieu.	
4. Address: 100 W Main Street			
City: Muncie	State: IN	ZIP Code: 47305 –	
5. Electronic Mail:		r: (765) 747 - 7740	
7. Method of Notification:   Telephone   Electroni			
Name: Dennis Tyler		Date Notified:	
Title: Mayor		Date Notified:	
Address: 300 North High Street			
City: Muncie	State: IN	<b>ZIP Code</b> : 47305 –	
Electronic Mail: mayor@cityofmuncie.com			
Method of Notification:			
Name:	Mail Standard Mail	Other (specify):	
Title:		Date Notified:	
Address:			
City:	State:	710.0-1-	
Electronic Mail:		ZIP Code: –	
Method of Notification:     Telephone   Electronic N	Telephone Number: (		
Name:	Iail Standard Mail	Other (specify):	
Title:		Date Notified:	
Address:			
City:			
Electronic Mail:		ZIP Code: –	
	Telephone Number: (	)	
Method of Notification: 🔃 Telephone 🔲 Electronic M	ail 💹 Standard Mail 🛚	Other (specify):	



# OAQ PROCESS INFORMATION APPLICATION PI-01: Miscellaneous Process

State Form 52534 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

- The purpose of this form is to obtain detailed information about the process. Complete one form for each process unit (or group
  of identical process units). This is a required form.
- Detailed instructions for this form are available online on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

	PART A: Process Information	
Pa use	Part A identifies the process. If there are multiple process units that are identical in nature, capa use one form to summarize the data for the identical process units.	city, and use, you may
1.	1. Unit ID: Not Applicable  2. Installation Date: (actual or anticipated)	
3.	3. How many (identical) process	
4.	4. Process Description:	
_	The state of the property unitaly	
<del></del>	<ul> <li>5. Maximum Production Rate (specify units):</li> <li>6. Fuel Used:  Not Applicable  Natural Gas Only  Other – Attach completed Pl-</li> </ul>	02F form
	the state of the s	
7.		0.000 0.2 0.7 (2.111000
l	☐ None ☐ Raghouse / Fabric Filter — Attach CE-02. ☐ Cyclone — Attach CE-03.	
		/ Scrubber - Attach CF-05
		Scrubber – Attach GE-00.
	Oxidizer / Incinerator — Attach CE-06.	
	☐ Condenser – Attach CE-08. ☐ Reduction – Attach CE-09.	
	Other (specify): — Attach CE-10.	
8.	8. Control Techniques: Identify all control techniques used for this process.	
	9. Process Limitations / Additional Information: Identify any acceptable process limitations	s. Attach additional
9.	information if necessary.	, , , , , , , , , , , , , , , , , , ,
ŀ		

Dart R identifies all a					
rait Diucitines an e	mission factors used to calcu	ılate air emissions fr	om this pro	ocess.	
10. Process Unit (& ID, if applicable)	11. Air Pollutant	12. Emiss Factor		13. Source of Em (if not using AP-42,	nission Factor 2, include calculations)
		value	units		
				☐ AP-42 [	Other
				☐ AP-42 [	Other
				☐ AP-42	Other
				☐ AP-42	☐ Other
				☐ AP-42 [	Other
				☐ AP-42 [	Other
	PART	T C: Processed Mat	terials		
Part C identifies the n	materials processed and the r				
14. Materials Proces		dw mac		1 =	
14. Waterials : 1000	Seu			15. Raw Materials	Usage Rate (lb/hr)
				-	
	PARTIN				
not Didontifies any f		: Federal Rule Appl	icability		
	ederal rules that apply to the				
Attach a completed	e Performance Standard (NS d FED-01 for each rule that appli	SPS) applicable to the lies.	nis source?	?	☐ Yes ☐ No
40 CFR Part 60,					
7. Is a National Em source? Attach a	nission Standard for Hazard completed FED-01 for each rule	lous Air Pollutants e that applies.	(NESHAP	) applicable to this	☐ Yes ☐ No
40 CFR Part <u>61</u> ,	Subpart				
40 CFR Part <u>63,</u>	Subpart				
8. Non-Applicabilit the rule title or the	ty Determination: Provide and essource category), but the ru	in explanation if the ule will not apply.	process ur	nit appears subject to a	a rule (based on



# OAQ PROCESS INFORMATION APPLICATION PI-02A: Combustion Unit Summary

State Form 52535 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.iN.gov/idem

- The purpose of this form is to summarize all of the combustion process units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  anyone to inspect and photocopy.

Form ID	Form Title	Guidance on when to submit the form
PI-02A	Combustion Unit Summary	Complete once for each application.
PI-02B	Boilers & Process Heaters	Complete once for each boiler or process heater.
PI-02C	Turbines & Internal Combustion Engines	Complete once for each turbine or internal combustion engine.
PI-02D	Incinerators & Combustors	Complete once for each incinerator or combustor.
PI-02E	Kilns	Complete once for each kiln.
PI-02F	Fuel Use	Complete once for each emissions unit that burns fuel other than natural gas.
PI-02G	Emission Factors	Complete once for each emissions unit.
PI-02H	Federal Rule Applicability	Complete once for each emissions unit.

		Summary	y of Combustion Units		
This table summar nature, capacity, a	izes all the combustion and use, you may use or	units at the	source. If there are multiple mmarize the identical units.	e combustion units tha	it are identical in
1. Combustion Unit Type	2. Number of Identical Units	3. Unit ID(s)	4. Date of Installation or Modification (actual or anticipated)	5. Heat Input Rate of each unit (MMBtu/hr)	6. Emergency / Back-Up Unit?
Kiln	2	PC1 & PC2	8/1/2019	50.00	☐ Yes      No
Dryer	1	DRY1	8/1/2019	17.00	☐ Yes ⊠ No
Emergency Generator	2	EG1 & EG2	8/1/2019	14.00	⊠ Yes □ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No



## OAQ PROCESS INFORMATION APPLICATION PI-02B: Combustion – Boilers, Process Heaters & Furnaces

State Form 52536 (R2 / 1-10)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.IN.gov/idem

- The purpose of this form is to specify details that pertain only to boilers, process heaters and furnaces.
- For the purposes of this form, a process heater is any combustion unit that provides heat directly or indirectly to the process.
- Complete one PI-02B form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and
  use, you may use one PI-02B form to summarize the units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

		PART A: Process L		
Pa ex	art A specifies operating inform planation of terminology are in	nation that is unique to boilers, pr ncluded in the instructions for this	ocess heaters and furnaces. De form.	efinitions and additional
1.	Unit ID: DRYER (DRY1	)		
2.	Type of Combustion Unit	·		
	☐ Boiler:	☐ Industrial Boiler	☐ Commercial	Boiler
		☐ Institutional Boiler	☐ Horseshoe £	Boiler
	□ Process Heater:     □ Process Hea	☐ Dutch Oven	□ Drying Oven	
	Z Trocess fleater.	☐ Fuel Cell	☐ Space Heate	
		☐ Crucible	☐ Crucible Pot	
		Cupola	☐ Electric Arc	
	Furnace:	☐ Electric Induction	☐ Open Hearth	1
		☐ Open Hearth, Oxygen Lance	d 🔲 Pot	
		Reverberatory	☐ Sweat	
3.	Combustion Process			
	☐ Cyclone Burner	☐ Fluidized Bed – C	irculating	d – Bubbling
	Overfeed Stoker / Traveli	ng Grate	ottom Pulverized -	Wet Bottom
	Spreader Stoker	☐ Underfeed Stoker		): <u>TBD</u>
4.	Heat Transfer Method:	☐ Watertube ☐ Firetube	Cast Iron	
5.	Transfer Surface Arrangement	☐ Horizontal ☐ Straig	ht	
	(check all that apply):	☐ Vertical ☐ Bent	Гube	
		☐ Cyclone	☐ Fluidized Bed Combustor	☐ Front Wall
6.	Firing Configuration:	☐ Horizontally Opposed	☐ Normal	☐ Stoker
		Suspension	☐ Tangential	
7.	Heat Transfer Method (process heaters only):	☑ Direct ☐ Indirect		
8.	Fuel Used:	Natural Gas Only ☐ Othe	r — Attach completed PI-02F.	

	PA	RT B: Emission Contro	ols and Limitations	S
Part B identifies	control technology, con	trol techniques or other p	process limitations	that impact air emissions.
9. Add-On Co	ntrol Technology: Iden	tify all control technologies	used for this process	. Attach completed CE-01 (unless "none").
☐ None				
⊠ Baghous	e / Fabric Filter – Attach	CE-02.	Cyclone – Attac	
☐ Electrost	atic Precipitator – Attach	CE-04.	☐ Absorption / W	'et Collector / Scrubber – Attach CE-05.
☐ NOx Red	uction — Attach CE-09.		Other (specify):	- Attach CE-10.
10. Control Tec	chniques: Identify all co	ontrol techniques used fo	r this process.	
⊠ None (ex	olain): Burner capacity is	low. Only control on the	Dryer is the bagho	ouse.
☐ Ammonia	a Injection	☐ Biased Burner Firing	<b>;</b>	Burning Oil / Water Emulsions
☐ Burners	Out Of Service	☐ Duct Injection		Flue Gas Recirculation
☐ Flyash R	einjection	☐ Furnace Injection		Load Reduction
☐ Low Exc	ess Air	☐ Low NO <sub>X</sub> Burners		Overfire Air
☐ Reburn		Reduced Air Prehea	at 🗆	☐ Spray Drying
Staged (	Combustion	Other (specify):		<ul> <li>Attach completed GSD-09.</li> </ul>
		PART C: Previously I	netalled Boilers	
D (0)				
		stalled prior to submitting		
12. Are there a	ny Previously Installed	I Boilers present at this	source?	
⊠ No – Pro	oceed to Part D.			
☐ Yes →	Information attack	ned. Information	is contained in ope	erating permit:
		PART D: Furna	ce Details	
Part D identifies of this table is r				tified with this application, completion
13. Material M	elted:			
14. Maximum	Melt Rate (specify units):			
15. Flux Type:			] 84CDC cttba-	
	Int (specify units):		MSDS attached.	
	ughput Material:			



# OAQ PROCESS INFORMATION APPLICATION PI-02C: Combustion – Turbines & Reciprocating Internal Combustion Engines

State Form 52537 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.lN.gov/idem

NOTES:

- The purpose of this form is to specify details that pertain only to turbines and internal combustion engines.
- Complete one PI-02C form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and
  use, you may use one PI-02C form to summarize the units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

		PART A: Process Unit Details
Pa De	art A specifies operating infor efinitions and additional expla	mation that is unique to turbines and reciprocating internal combustion engines. anation of terminology are included in the instructions for this form.
1.	Unit ID: Emergency Ge	enerator 1 (EG1) & Emergency Generator 2 (EG2) (two identical units)
2.	Type of Combustion Unit	
		☐ Simple Cycle
	☐ Turbine:	☐ Regenerative Cycle
	i dibille.	☐ Cogeneration
		☐ Combined Cycle
	N =	2-stroke lean-burn
	Reciprocating Internal Combustion Engine:	☐ 4-stroke lean-burn
		☐ 4-stroke rich-burn
3.	Combustion Process:	☐ Diffusion Flame Combustion
٥.	Compastion Flocess.	Lean-Premix Staged Combustion
4.	Ignition Type:	☐ Spark
-7.	igiliaon Type.	
5.	Power Output:	2000.00 horsepower (hp)
J.	rower Output.	megawatts (MW)
6.	Duty Cycle:	500 hours per year (hr/yr)
7.	Fuel Used:	☐ Natural Gas Only
′.	i dei Oseu.	Other - Attach completed PI-02F.
8.	Does this combustion uni	t supply power to an emergency generator? 🔀 Yes 🔲 No

Process Information - Combustion FORM PI-02C Page 2 of 2

PART B: Emission C	Controls and Limitations
Part B identifies control technology, control techniques or o	other process limitations that impact air emissions.
9. Add-On Control Technology: Identify all control techno	ologies used for this process. Attach completed CE-01 (unless "none").
⊠ None	
Catalytic Oxidation – Attach CE-06	☐ NO <sub>X</sub> Reduction — Attach CE-09
Other (specify):	— Attach CE-10.
10. Control Techniques: Identify all control techniques us	sed for this process.
☐ None (explain):	
☐ Air-To-Fuel Ratio Adjustments	☐ Aromatic Content Increase
☐ Boiling Point adjusted to 10% and 90%	☐ Cetane Number
☐ Charge Cooling	☐ Combustion Chamber Modifications
☐ Derating	☐ Electronic Timing & Metering
☐ Exhaust Gas Recirculation	☐ Fuel Additives
☐ Fuel Injection Pressure	☐ Injection Rate Control
☐ Injection Timing Retard	☐ Injector Nozzle Geometry
☐ Lean Combustion	
☐ Oil Consumption Control	☐ Pre-ignition Chamber Combustion
☐ Rapid Spill Nozzles	☐ Turbocharging
Two Stage Lean / Lean Combustion	☐ Two Stage Rich / Lean Combustion
☐ Water/Fuel Emulsions	☐ Water / Steam Injection
Other (specify):	Attach completed GSD-09.
11. Process Limitations / Additional Information: Identification if necessary.	ntify any acceptable process limitations. Attach additional



# OAQ PROCESS INFORMATION APPLICATION PI-02E: Combustion – Kilns

State Form 52539 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.IN.gov/idem

### NOTES:

- The purpose of this form is to specify details that pertain only to kilns.
- Complete one PI-02E form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and
  use, you may use one PI-02E form to summarize the units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

		PART A: Process Unit Detai	
Pa ind	art A specifies operating information th cluded in the instructions for this form.	at is unique to kilns. Definitions ar	nd additional explanation of terminology are
1.	Unit ID:	Kiln 1 (KLN1) & Kiln 2 (KLN2) (tw	wo identical units)
2.	Processed Material:	☐ Portland Cement	Attach this PI-02E to the completed PI-15.
		Lime	Attach this PI-02E to the completed PI-13.
		☐ Brick or Clay Products	Attach this PI-02E to the completed PI-05.
		☑ Other (specify): EAF dust and a breeze, anthracite, petroleum col	a carbon source (e.g., metallurgical coke oke, etc.)
3.	Configuration:	⊠ Rotary ☐ Vertical	
4.	Type of Kiln:	☐ Calcimatic	
		☐ Dry Process	
		☐ Fluidized Bed	
		☐ Preheater	
		Preheater / Precalciner Proces	ess
		☐ Regenerative	
		☐ Wet Process	
5.	Material Throughput (specify units):	30.50 ton/hr of EAF & carbonac	ceous material (each)
6.	Fuel Used:	Natural Gas Only	Other — Attach completed PI-02F.
7.	Heating Method:	Periodic	
8.	Length of Burn Time (specify units):	TBD	
9.	Does this source have a pre-dryer	I pre-heater? If yes, attach comp	oleted PI-02B. ⊠ Yes □ No

PART B: Emission Conf	rols and Limitations
Part B identifies control technology, control techniques or othe	r process limitations that impact air emissions.
10. Add-On Control Technology: Identify all control technologie	es used for this process. Attach completed CE-01 (unless "none").
□ None	
☐ Baghouse / Fabric Filter — Attach CE-02.	Cyclone – Attach CE-03.
Electrostatic Precipitator - Attach CE-04.	Absorption / Wet Collector / Scrubber – Attach CE-05.
Oxidizer / Incinerator — Attach CE-06.	Adsorber – Attach CE-07.
Condenser – Attach CE-08.	NO <sub>X</sub> Reduction – Attach CE-09.
Other (specify):	- Attach CE-10.
11. Control Techniques: Identify all control techniques used	for this process.
12. Process Limitations / Additional Information: Identify information if necessary.	any acceptable process limitations. Attach additional



# OAQ PROCESS INFORMATION APPLICATION

State Form 52540 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PI-02F: Combustion - Fuel Use

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

NOTES:

The purpose of this form is to identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this

- Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

		PAR	PART A: Process Unit Identification	t Identification			
1. Unit ID: KLN1							
The state of the s							
			PART B: Gaseous Fuels	Fuels		**************************************	
Part B identifies the gaseous fuels that will be used in the combustion unit.	at will	be used in the combust	ion unit.				
2. Fuel Type:	ю.	3. Percent of Fuel Use (by volume)	4. Primary or §	Primary or Secondary Fuel?	5. Component Percentages:	ntages:	6. Heating Value:
⊠ Natural Gas		100.00%	⊠ Primary	Secondary	Sulfur	%00.0	1020 00 (841/#3)
☐ Liquefied Petroleum Gas						2,00	וסבט.טט (בושוני)
☐ Commercial- Propane			J		Sulfar		
☐ Engine Fuel Propane (HD-5)			☐ Primary	☐ Secondary	Butane:		(Btu/ft³)
☐ Commercial- Butane					Propane:		
☐ Process Gas *			☐ Primary	Secondary	Sulfur:		(Btu/ft³)
☐ Landfill Gas *			☐ Primary	Secondary	Sulfur		(Btu/ft³)
Other (specify):			☐ Primary	☐ Secondary			(Btu/ft³)
* Indicate the source of the process or landfill gas:	f the p	process or landfill gas:					

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Indiana Latriment Of Environmental Management Office Of Air Quality
State Form 52540 (R2 / 1-10)

		PART C: Liquid Fuels	3 5		
Part C identifies the liquid fuels that will be used in the combustion unit.	hat will be used in the combus	stion unit.		1	
7. Fuel Type:	8. Percent of Fuel Use (by volume)	9. Primary or Secondary Fuel?	10. Component Percentages:	11. Heating Value:	12. Percent Heat:
☐ Residual Fuel Oil ☐ №. 5 – Heavy		☐ Primary	ند <u>نو</u> ر 0	(Btu/aal)	
☐ No. 5 Light ☐ No. 6 (Bunker C)		☐ Secondary	Odlidi.	(156,137)	
Distillate Fuel Oil					
□ No. 1		☐ Primary	Sulfur	(Btu/qal)	
□ No. 2 (Diesel)		☐ Secondary			
NO. 4					
☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	(Btu/gal)	
			Sulfur:		
; ;		☐ Primary	Ash:	(Btu/dal)	
☐ Waste Oil		☐ Secondary	Lead	( )	
			Chlorine:		
			Sulfur:		
iquid Waste *			Fluorine:	(Btu/gal)	
]		Secondary	Chlorine:		
		☐ Primary		(Btu/gal)	
Uther (specify):		☐ Secondary			
* RCRA alpha-numeric	* RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	us Waste to be Burned:			

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Process Information - Combustion FORM PI-02F Page 3 of 4

Indiana Department Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

PART DT sol Part D1 identifies all variations of coal that will be used in the combustion unit.	f coal that will be used in the c	PART DT: Solid Fuels – Coal combustion unit.	- Coal		
13. Fuel Type:	14. Percent of Fuel Use (by volume)	15. Primary or Secondary Fuel?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ Anthracite ☐ Culm		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	□ Dry □ Moist
☐ Bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	☐ Dry ☐ Moist
☐ Sub-bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	☐ Dry ☐ Moist
Lignite Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	☐ Dry ☐ Moist
☐ Coke		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	□ Dry □ Moist
] Other Coal (specify):		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/gal)	□ Dry □ Moist

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> Indiana 、 ./tment Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART D2: Other Solid Fuels	Fuels		
Part D2 identifies the solid fuels, other than coal, that will	other than coal, that will be u	be used in the combustion unit.	<b>,</b>		
19. Fuel Type:	20. Percent of Fuel Use (by volume)	21. Primary or Secondary Fuel?	22. Component Percentages:	23. Heating Value:	24. Percent Heat:
<ul> <li>✓ Wood or Wood Waste</li> <li>✓ Wood Only</li> <li>✓ Wood Residue Only</li> </ul>		☐ Primary ☐ Secondary	Moisture:	(Btu/ton)	
Tires or Tire Derived Fuel  Whole Tires		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	(Btu/lb)	
☐ Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	(Btu/lb)	
Solid Waste *		☐ Primary ☐ Secondary		(Btu/lb)	
Other (specify):		☐ Primary		(Btu/lb)	
*RCRA alpha-numeric	*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	ous Waste to be Burned:			

PART E: Fuel Consumption Limitations	Use the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.	Kiln burner will have a capacity of 50 MMBtu/hr (natural gas).		
	Use the space provided to specify any fur	Kiln burner will have a capacity of 50		

# OAQ PROCESS INFORMATION APPLICATION

PI-02F: Combustion – Fuel Use

State Form 52540 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.IN.gov/idem

IDEM - Office of Air Quality - Permits Branch

NOTES:

The purpose of this form is to identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this

Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.

Detailed instructions for this form are available on the Air Permit Application Forms website.

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

1. Unit ID: KLN2		Tara A. Frocess Officialing		
PART B:	toudance att at beau ed live ter	PART B: Gaseous Fuels		
100000000000000000000000000000000000000	Ter will be deed ill tile collibusi			
2. Fuel Type:	3. Percent of Fuel Use (by volume)	4. Primary or Secondary Fuel?	al? 5. Component Percentages:	6. Heating Value:
Natural Gas     ■	100.00%		v Sufur 0.00%	1020 00 (84:./#3)
☐ Liquefied Petroleum Gas		į.	10-10-10-10-10-10-10-10-10-10-10-10-10-1	1020.00 (Diu/it²)
☐ Commercial- Propane			Sulfur:	
☐ Engine Fuel Propane (HD-5)		☐ Primary ☐ Secondary	y Butane:	(Btu/ff³)
☐ Commercial- Butane			Propane:	
☐ Process Gas *		☐ Primary ☐ Secondary	y Sulfur.	(Btu/ft³)
☐ Landfill Gas *		☐ Primary ☐ Secondary	y Sulfur:	(Btu/ff <sup>3</sup> )
Other (specify):		☐ Primary ☐ Secondary		(Btu/ft³)
* Indicate the source	* Indicate the source of the process or landfill gas:		•	

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> Indiana , .tment Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

10. Component         11. Heating Value:           Percentages:         (Btu/gal)           Sulfur:         (Btu/gal)           Sulfur:         (Btu/gal)           Sulfur:         (Btu/gal)           Sulfur:         (Btu/gal)           Chlorine:         (Btu/gal)           Chlorine:         (Btu/gal)           Chlorine:         (Btu/gal)           Chlorine:         (Btu/gal)			PART C: Liquid Fuels	sls		
8.   Percent of Fuel Use   Secondary Fuer?   10. Component   11.   Heating Value	Part C identifies the liquid fuels th	at will be used in the combus	stion unit.			
Primary Suffur:   Secondary   Suffur:   Secondary   Suffur:   Secondary   Suffur:   Secondary   Lead   Chlorine:   Secondary   Lead   Chlorine:   Secondary   Chlorine:   Ch	7. Fuel Type:	1		10. Component Percentages:	11. Heating Value:	12. Percent Heat:
□ Primary       Sulfur:         □ Secondary       Sulfur:         □ Primary       Sulfur:         □ Primary       Sulfur:         □ Primary       Ash:         □ Secondary       Chlorine:         □ Primary       Fluorine:         □ Secondary       Chlorine:         □ Secondary       Chlorine:         □ Secondary       Chlorine:         □ Secondary       Chlorine:	<ul><li>☐ Residual Fuel Oil</li><li>☐ No. 5 Heavy</li><li>☐ No. 5 Light</li></ul>		☐ Primary ☐ Secondary	Sulfur:	(Btu/gal)	
Primary Sulfur:   Candary   Sulfur:   Candary   Sulfur:   Candary   Sulfur:   Candary   Sulfur:   Candary   Canda	☐ No. 6 (Bunker C) ☐ Distillate Firel Oil					
Primary Sulfur:   Secondary Sulfur:   Primary Ash:   Secondary Lead Chlorine:   Primary Fluorine:   Secondary Chlorine:   Secondary Chlorine:   Secondary Chlorine:   Secondary Chlorine:   Secondary Chlorine:   Secondary Chlorine:	☐ No. 1 ☐ No. 2 (Diesel)		☐ Primary ☐ Secondary	Sulfur	(Btu/gal)	
Primary Sulfur:   Secondary Sulfur:   Primary Ash:   Secondary Lead Chlorine:   Primary Fluorine:   Secondary Chlorine:   Secondary Chlorine:   Secondary Chlorine:   Secondary Chlorine:	□ No. 4					
Sulfur:   Secondary	☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	(Btu/gal)	
□ Primary Ash:   □ Secondary Lead Chlorine:   □ Primary Fluorine:   □ Secondary Chlorine:   □ Primary Fluorine:   □ Secondary Chlorine:   □ Secondary Chlorine:	**************************************			Sulfur:		
Sulfur:    Primary Fluorine:   Secondary Chlorine:   Primary Fluorine:   Secondary ::	☐ Waste Oil		☐ Primary ☐ Secondary	Ash: Lead	(Btu/gal)	
Primary   Fluorine:   Secondary   Chlorine:   Primary   Chlorine:   Secondary   :				Chlorine:		
Secondary :	☐ Liquid Waste *		☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	(Btu/gal)	
Source of the Charles	Other (specify):		☐ Primary ☐ Secondary		(Btu/gal)	
* RCRA alpha-numeric codes for Special or Hazardous Waste to be bullied.	* RCRA alpha-numeric	codes for Special or Hazard	ous Waste to be Burned:		- MARKET - M	100000000000000000000000000000000000000

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Indiana Department Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART D1: Solid Fuels - Coal	- Coal		1000
Part D1 identifies all variations of coal that will be used in the combustion unit.	f coal that will be used in the	combustion unit.			
13. Fuel Type:	14. Percent of Fuel Use (by volume)	15. Primary or Secondary Fuel?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal		· · · · · · · · · · · · · · · · · · ·	Sulfur:		
☐ Anthracite		☐ Primary	Ash;	(Bnulb)	
Culm		Secondary	Moisture:	(Cuma)	Noist
		Primary	Sulfur:		
Bituminous Coal		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
		Secolidary	Moisture:		
[		Drimony	Sulfur:		
Sub-bituminous Coal		Socood	Ash:	(Btu/lb)	☐ Dry ☐ Moist
		. J Secondary	Moisture:		
[		O	Sulfur:		
Lignite Coal		Secondary	Ash;	(Btu/lb)	☐ Dry ☐ Moist
			Moisture:		
		Driman	Sulfur:		
Coke		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
		Cecolidaly	Moisture:		
			Sulfur:		
☐ Other Coal (specify):			Ash:	(Btn/dal)	(Btu/qal) Dry Moist
		Secondary	Moisture:		

Process Information bustion
FC.AM PI-02F
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Indiana , thent Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART D2: Other Solid Fuels	Fuels		
Part D2 identifies the solid fuels, other than coal, that will	other than coal, that will be u	be used in the combustion unit.	<b>.</b>		***************************************
19. Fuel Type:	20. Percent of Fuel Use	21. Primary or Secondary Fuel?	22. Component Percentages:	23. Heating Value:	24. Percent Heat:
<ul> <li>✓ Wood or Wood Waste</li> <li>✓ Wood Only</li> <li>✓ Wood Residue Only</li> </ul>		☐ Primary ☐ Secondary	Moisture:	(Btu/ton)	
<ul> <li>☐ Wood and Wood resolute</li> <li>☐ Tires or Tire Derived Fuel</li> <li>☐ Whole Tires</li> <li>☐ Tire Derived Fuel</li> </ul>		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	(Btu/lb)	
Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	(Btu/lb)	
☐ Solid Waste *		☐ Primary ☐ Secondary		(Btu/lb)	
Other (specify):		☐ Primary ☐ Secondary		(Btu/lb)	
*RCRA alpha-numeric	*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	ous Waste to be Burned:			

PART E: Fuel Consumption Limitations	Use the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.	Kiln burner will have a capacity of 50 MMBtu/hr (natural gas).		
	Use the space provided to specify	Kiln burner will have a capacity		

# OAQ PROCESS INFORMATION APPLICATION

PI-02F: Combustion – Fuel Use State Form 52540 (R2 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003

Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

NOTES:

The purpose of this form is to identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this

- Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

1. <b>Unit ID:</b> DRY1		PAR	T A: Process Ur	PART A: Process Unit Identification			
Dark Distriction of the Control of the Control	-		PART B: Gaseous Fuels	s Fuels			
rait b lueillilles the gaseous fuels that will be used in th	at will	be used in the combustion unit.	ion unit.				
2. Fuel Type:	က်	3. Percent of Fuel Use (by volume)	4. Primary or	4. Primary or Secondary Fuel?	5. Component Percentages:	rcentages:	6. Heating Value:
⊠ Natural Gas		100.00%	⊠ Primarv	Secondary	Sulfur	70000	400000
☐ Liquefied Petroleum Gas					Odina.	0.00%	1020.00 (Btu/It²)
☐ Commercial- Propane					Sulfur:		
☐ Engine Fuel Propane (HD-5)			☐ Primary	Secondary	Butane:		(Btu/ft³)
☐ Commercial- Butane					Propane:		
☐ Process Gas *			☐ Primary	Secondary	Sulfur.		(Btn/ff3)
☐ Landfill Gas *			☐ Primary		Sulfur		(Stu/ft3)
Other (specify):			☐ Primary				(Den/163)
					***		(DIMIL)
* Indicate the source of the process or landfill gas:	fther	process or landfill gas:					

Process Information bustion FC...M PI-02F Page 2 of 4

Indiana L ... tment Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART C: Liquid Fuels	sis		
Part C identifies the liquid fuels that will be used in the combustion unit.	that will be used in the combus	stion unit.			
7. Fuel Type:	8. Percent of Fuel Use	9. Primary or Secondary Fuel?	10. Component Percentages:	11. Heating Value:	12. Percent Heat:
Residual Fuel Oil					
☐ No. 5 – Heavy		☐ Primary		(Btu/dal)	
☐ No. 5 – Light		☐ Secondary			
☐ No. 6 (Bunker C)					
Distillate Fuel Oil					
□ No. 1		☐ Primary	-Juliur.	(Btu/qal)	
☐ No. 2 (Diesel)		☐ Secondary		-	
□ No. 4					
		☐ Primary	<u>,                                    </u>	(les/1.40/	
☐ Gasoline		☐ Secondary	Sultur	(Diu/gai)	
	The state of the s		Sulfur:		
		☐ Primary	Ash:	(Rtu/aal)	
☐ Waste Oil		☐ Secondary	Lead		
		The second secon	Chlorine:		
		C	Sulfur:		
* of so to to to to to to			Fluorine:	(Btu/gal)	
Tidala vyasta		Secondary	Chlorine:		
		☐ Primary		(Btu/aal)	
Other (specify):		☐ Secondary	*	(-6	
* RCRA alpha-numeric	* RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	ous Waste to be Burned:			

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		PART D1: Solid Engle Coal	1000		
Part D1 identifies all variations of coal that will be used in	coal that will be used in the	the combustion unit.			
13. Fuel Type:	14. Percent of Fuel Use (by volume)	15. Primary or Secondary Fuel?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ Anthracite		☐ Primary	Sulfur, Ash:	(Bridh)	
□ Culm		Secondary	Moisture:	(aruna)	☐ Dry ☐ Moist
a in		Primary	Sulfur:		
		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
			Wioleture.		***************************************
Sub-bitminion		☐ Primary	Sulfur.		
		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
			Moisture:		
: :		Driman,	Sulfur:		
Lignite Coal		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
			Moisture:		
		Primary	Sulfur:		AND THE REAL PROPERTY OF THE P
Coke		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
		L CCCOINGRY	Moisture:		•
· ·		Primary	Sulfur:		
Uner Coal (specify):		Secondary	Ash:	(Btu/gal)	☐ Dry ☐ Moist
			Moisture:		

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Indiana Lanent Of Environmental Management Office Of Air Quality
State Form 52540 (R2 / 1-10)

		PART D2: Other Solid Fuels	Fuels		
Part D2 identifies the solid fuels, other than coal, that will be used in the combustion unit.	other than coal, that will be u	sed in the combustion uni			***************************************
19. Fuel Type:	20. Percent of Fuel Use (by volume)	21. Primary or Secondary Fuel?	22. Component Percentages:	23. Heating Value:	24. Percent Heat:
<ul> <li>☐ Wood or Wood Waste</li> <li>☐ Wood Only</li> <li>☐ Wood Residue Only</li> <li>☐ Wood and Wood Residue</li> </ul>		☐ Primary ☐ Secondary	Moisture:	(Btu/ton)	
☐ Tires or Tire Derived Fuel ☐ Whole Tires ☐ Tire Derived Fuel		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	(Btu/lb)	
☐ Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	(Btu/lb)	
Solid Waste *		☐ Primary ☐ Secondary		(Btu/lb)	
Other (specify):		☐ Primary ☐ Secondary		(Btu/lb)	
*RCRA alpha-numeric	*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	us Waste to be Burned:			

PART E: Fuel Consumption Limitations	Use the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.	Dryer will have a capacity of 17 MMBtu/hr (natural gas).	
	Use the space provided to spe	Dryer will have a capacity of	



# OAQ PROCESS INFORMATION APPLICATION

PI-02F: Combustion -- Fuel Use State Form 52540 (R2 / 1-10)

State Form 52540 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone (217) 232-0178 or

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

- The purpose of this form is to identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this
- Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.
  - Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

1. Unit ID: EG1		AND A LICEOS OF LIGHTERIOR		
PART B: dentifies the gaseous fuels that will be used in the combustion unit.	at will be used in the combusti	PART B: Gaseous Fuels stion unit.		
2. Fuel Type:	3. Percent of Fuel Use	4. Primary or Secondary Fuel?	5. Component Percentages:	6. Heating Value:
☐ Natural Gas		☐ Primary ☐ Secondary	Sulfur	(Rn1/ff3)
☐ Liquefied Petroleum Gas			Sulfur:	( uma)
☐ Engine Fuel Propane (HD-5)		☐ Primary ☐ Secondary	Butane:	(Btu/ft³)
☐ Commercial- Butane			Propane:	
☐ Process Gas *		☐ Primary ☐ Secondary	Sulfur.	(Btu/ft³)
☐ Landfill Gas *		☐ Primary ☐ Secondary	Sulfur:	(Btu/ft³)
Other (specify):		☐ Primary ☐ Secondary		(Btu/ft³)
* Indicate the source of	* Indicate the source of the process or landfill gas:			

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Indiana L., utment Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

			PART C: Liquid Fuels	Sle		
Part C identifies the liquid fuels that will be used in the combustion unit.	nat will be us	sed in the combust	tion unit.			
7. Fuel Type:	8. Percent c	Percent of Fuel Use (by volume)	9. Primary or Secondary Fuel?	10. Component Percentages:	11. Heating Value:	12. Percent Heat:
<ul> <li>Residual Fuel Oil</li> <li>No. 5 - Heavy</li> <li>No. 5 - Light</li> <li>No. 6 Bunker C)</li> </ul>			☐ Primary ☐ Secondary	Sulfur:	(Btu/gal)	
No. 2 (Diesel)   No. 4 (Diesel)   No. 4	100.00%	%(	⊠ Primary ∐ Secondary	Sulfur: 500 ppm	139,000 (Btu/gal)	100.00%
☐ Gasoline			☐ Primary ☐ Secondary	Sulfur:	(Btu/gal)	
☐ Waste Oil			☐ Primary ☐ Secondary	Sulfur: Ash: Lead Chlorine:	(Btu/gal)	
☐ Liquid Waste *			☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	(Btu/gal)	
Uther (specify):			☐ Primary ☐ Secondary		(Btu/gal)	
* RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	codes for Sp	pecial or Hazardou	us Waste to be Burned:			

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Process Information - Combustion FORM PI-02F Page 3 of 4

Indiana Department Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART D1: Solid Fuels - Coal	- Coal		
Part D1 identifies all variations of coal that will be used in	f coal that will be used in the c	the combustion unit.			
13. Fuel Type:	14. Percent of Fuel Use (by volume)	15. Primary or Secondary Fuel?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal			Sulfur:		
☐ Anthracite			Ash:	(Btu/lb)	☐ Dry ☐ Moist
Culm		secondary	Moisture:		•
			Sulfur:		
☐ Bituminous Coal		Frimary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
		- Secolidary	Moisture:		
		Drimon	Sulfur:	**************************************	
Sub-bituminous Coal		Cocondon	Ash:	(Btu/lb)	☐ Dry ☐ Moist
		Cecolidal y	Moisture:		
			Sulfur:		
☐ Lignite Coal		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
			Moisture:		
[		Drieming	Sulfur:		
Coke		Secondary	Ash:	(Btu/lb)	☐ Dry ☐ Moist
		Coordinally	Moisture:		
		Drive	Sulfur:		And the state of t
Other Coal (specify):		Secondary	Ash:	(Btu/gal)	(Btu/gal) $\square$ Dry $\square$ Moist
		ر مصوراتها ع	Moisture:		

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Indiana . ...tment Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

24. Percent Heat: 23. Heating Value: (Btu/ton) (Btu/lb) (Btu/lb) (Btu/lb) 22. Component Percentages: Chromium: Moisture: Chlorine: Moisture: Sulfur: Ash: PART D2: Other Solid Fuels Part D2 identifies the solid fuels, other than coal, that will be used in the combustion unit. 21. Primary or Secondary Fuel? ☐ Secondary ☐ Secondary Secondary ☐ Primary ☐ Primary □ Primary □ Primary 20. Percent of Fuel Use (by volume) ☐ Tires or Tire Derived Fuel ☐ Wood and Wood Residue ☐ Wood Residue Only ☐ Tire Derived Fuel ☐ Whole Tires 19. Fuel Type: ☐ Wood Only ☐ Bagasse

PART E: Fuel Consumption Limitations	lse the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.			
	Ise the space provided to specify any fuel consumption			

(Btu/lb)

\*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:

Secondary

Secondary

Solid Waste \*

Other (specify):

☐ Primary



# OAQ PROCESS INFORMATION APPLICATION

PI-02F: Combustion – Fuel Use
State Form 52540 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.lN.gov/idem

- The purpose of this form is to identify each fuel that will be used in the combustion unit. Definitions and additional explanation of terminology are included in the instructions for this
- Complete one form PI-02F for each combustion unit. If the unit has any capability of using a fuel, even if on a backup or intermittent basis, complete the applicable section. Using a fuel that is not specified in the permit is a violation of the permit.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

		PAR	PART A: Process Unit Identification	t Identification	The state of the s	
1. Unit ID: EG2						
			PART B: Gaseous Fuels	Fuels	THE PARTY OF THE P	
Part B identifies the gaseous fuels that will be used in the combustion unit.	at will	be used in the combust	ion unit.			
2. Fuel Type:	ю.	3. Percent of Fuel Use (by volume)	4. Primary or	Primary or Secondary Fuel?	5. Component Percentages:	6. Heating Value:
☐ Natural Gas			☐ Primary	☐ Secondary	Sulfur:	(Btu/ft³)
Liquefied Petroleum Gas					Sulfur:	
L.J. Commercial: Propane  [] Engine Fuel Propane (HD-5)			☐ Primary	☐ Secondary	Butane:	(Btu/ft³)
☐ Commercial- Butane					Propane:	
☐ Process Gas *			☐ Primary	☐ Secondary	Sulfur:	(Btu/ft³)
☐ Landfill Gas *			☐ Primary	☐ Secondary	Sulfur:	(Btu/ft³)
Other (specify):			☐ Primary	Secondary		(Btu/ft³)
* Indicate the source of the process or landfill gas:	f the p	process or landfill gas:				

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Page 2 of 4

Indiana . . .tment Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART C: Liquid Fuels	SIS		
Part C identifies the liquid fuels that will be used in the combustion unit.	at will be used in the combus	ition unit.			
7. Fuel Type:	8. Percent of Fuel Use (by volume)	9. Primary or Secondary Fuel?	10. Component Percentages:	11. Heating Value:	12. Percent Heat:
<ul> <li>☐ Residual Fuel Oil</li> <li>☐ No. 5 - Heavy</li> <li>☐ No. 5 - Light</li> <li>☐ No. 6 (Bunker C)</li> </ul>		☐ Primary ☐ Secondary	Sulfur:	(Btu/gal)	
<ul><li>☑ Distillate Fuel Oil</li><li>☐ No. 1</li><li>☒ No. 2 (Diesel)</li><li>☐ No. 4</li></ul>	100.00%	⊠ Primary □ Secondary	Sulfur: 500 ppm	139,000 (Btu/gal)	100.00%
☐ Gasoline		☐ Primary ☐ Secondary	Sulfur:	(Btu/gal)	
☐ Waste Oil		☐ Primary ☐ Secondary	Sulfur: Ash: Lead Chlorine:	(Btu/gal)	
☐ Liquid Waste *		☐ Primary ☐ Secondary	Sulfur: Fluorine: Chlorine:	(Btu/gal)	
Other (specify):		☐ Primary ☐ Secondary		(Btu/gal)	
* RCRA alpha-numeric	* RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	us Waste to be Burned:	- Andrews		i and the state of

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Process Information - Combustion FORM PI-02F Page 3 of 4

Indiana Department Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART D1: Solid Fuels – Coal	- Coal		
Part D1 identifies all variations of coal that will be used		in the combustion unit.			
13. Fuel Type:	14. Percent of Fuel Use (by volume)	15. Primary or Secondary Fuel?	16. Component Percentages:	17. Heating Value:	18. Basis:
☐ Anthracite Coal ☐ Anthracite ☐ Culm		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	☐ Dry ☐ Moist
Bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	□ Dry □ Moist
☐ Sub-bituminous Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	☐ Dry ☐ Moist
☐ Lignite Coal		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	□ Dry □ Moist
□Coke		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/lb)	☐ Dry ☐ Moist
☐ Other Coal (specify):		☐ Primary ☐ Secondary	Sulfur: Ash: Moisture:	(Btu/gal)	□ Dry □ Moist

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Indiana L , tment Of Environmental Management Office Of Air Quality State Form 52540 (R2 / 1-10)

		PART D2: Other Solid Fuels	Fuels		
Part D2 identifies the solid fuels, other than coal, that will		be used in the combustion unit.	į.		
19. Fuel Type:	20. Percent of Fuel Use (by volume)	21. Primary or Secondary Fuel?	22. Component Percentages:	23. Heating Value:	24. Percent Heat:
<ul> <li>☐ Wood or Wood Waste</li> <li>☐ Wood Only</li> <li>☐ Wood Residue Only</li> <li>☐ Wood and Wood Residue</li> </ul>		☐ Primary ☐ Secondary	Moisture:	(Btu/ton)	
☐ Tires or Tire Derived Fuel ☐ Whole Tires ☐ Tire Derived Fuel		☐ Primary ☐ Secondary	Sulfur: Chromium: Chlorine:	(Btu/lb)	
Bagasse		☐ Primary ☐ Secondary	Ash: Moisture:	(Btu/lb)	
Solid Waste *		☐ Primary ☐ Secondary		(Btu/lb)	
Other (specify):		☐ Primary ☐ Secondary		(Btu/lb)	
*RCRA alpha-numeric	*RCRA alpha-numeric codes for Special or Hazardous Waste to be Burned:	us Waste to be Burned:			

Jse the space provided to specify any fuel consumption limitations that are acceptable for the combustion unit.
---



# OAQ PROCESS INFORMATION APPLICATION PI-02G: Combustion – Emission Factors

State Form 52541 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.iN.gov/idem

### NOTES:

- The purpose of this form is to specify the emission factors used to calculate potential to emit from the combustion unit.
- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and
  use, you may use one PI-02G form to summarize the units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
  Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

	Emi	ssion Factor	rs			
Th	is table identifies all emission factors used to calculat			combustion ur	nit.	
1.	Unit ID: KLN1 & KLN2 (two identical units). Emi include a 50% contingency.	ission factors	based on sta	ack test data f	rom similar fac	cility and
2.	Air Pollutant:	3. Emiss	ion Factor		of Emission F	
L		value	units	(if not usin	ng AP-42, include i	calculations)
	Carbon Monoxide (CO)	0.94	lb/ton	☐ AP-42		□ N/A
	Lead (Pb)	0.09	lb/hr	☐ AP-42		□ N/A
	Hazardous Air Pollutant (HAP) (specify): Total	0.39	lb/hr	⊠ AP-42	☑ Other	□ N/A
	Nitrogen Oxides (NOx)	54.00	lb/ton	☐ AP-42		□ N/A
	Mercury (Hg)	0.09	lb/hr	☐ AP-42	Other	□ N/A
	Particulate Matter (PM)	0.30	lb/ton	☐ AP-42		□ N/A
	Particulate Matter less than 10μm (PM <sub>10</sub> )	0.20	lb/ton	☐ AP-42		□ N/A
	Particulate Matter less than 2.5μm (PM <sub>2.5</sub> )	0.20	lb/ton	☐ AP-42		N/A
	Sulfur Dioxide (SO <sub>2</sub> )	0.11	lb/ton	☐ AP-42		□ N/A
	Volatile Organic Compounds (VOC)	0.09	lb/ton	☐ AP-42		□ N/A
	Other (specify):		10/(0.1	☐ AP-42	☐ Other	□ N/A
	Other (specify):			☐ AP-42	Other	□ N/A
	Other (specify):			☐ AP-42	Other	□ N/A



## OAQ PROCESS INFORMATION APPLICATION PI-02G: Combustion – Emission Factors

State Form 52541 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.lN.gov/idem

NOTES:

- The purpose of this form is to specify the emission factors used to calculate potential to emit from the combustion unit.
- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and
  use, you may use one PI-02G form to summarize the units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
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	Em	ission Factor	3			
Thi	is table identifies all emission factors used to calcula	ate air emissior	ns from the c	ombustion un	it.	
1.	Unit ID: DRY1					
2.	Air Pollutant:	3. Emiss	ion Factor		of Emission F	
		value	units	(II HOLUSII	ny AF-42, menae e	.aicuiadons/
	Carbon Monoxide (CO)	84.00	lb/MMscf		Other	☐ N/A
	Lead (Pb)	0.00	lb/MMscf	⊠ AP-42	Other	□ N/A
	Hazardous Air Pollutant (HAP) (specify): Total, Natural Gas Combustion	5.10	lb/MMscf	⊠ AP-42	Other	□ N/A
	Nitrogen Oxides (NOx)	100.00	lb/MMscf	⊠ AP-42	Other	□ N/A
<b>†</b>	Mercury (Hg)			☐ AP-42	Other	□ N/A
	Particulate Matter (PM)	7.60	lb/MMscf	⊠ AP-42	Other	□ N/A
	Particulate Matter less than 10µm (PM₁₀)	7.60	lb/MMscf		Other	□ N/A
	Particulate Matter less than 2.5µm (PM <sub>2.5</sub> )	7.60	lb/MMscf	⊠ AP-42	Other	□ N/A
	Sulfur Dioxide (SO <sub>2</sub> )	0.60	lb/MMscf		Other	□ N/A
	Volatile Organic Compounds (VOC)	5.5	lb/MMscf	⊠ AP-42	Other	□ N/A
	Other (specify):			☐ AP-42	Other	□ N/A
	Other (specify):			☐ AP-42	Other	□ N/A
	Other (specify):			☐ AP-42	Other	☐ N/A



## OAQ PROCESS INFORMATION APPLICATION PI-02G: Combustion – Emission Factors

State Form 52541 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number; (317) 232-6749 www.lN.gov/idem

### NOTES:

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- Complete one PI-02G form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and
  use, you may use one PI-02G form to summarize the units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
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Em This table identifies all emission factors used to calcula	ilssion Factor ate air emissio		combustion u	nit.	
1. Unit ID: EG1 & EG 2 (two identical units)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2. Air Pollutant:	3. Emiss	ion Factor	4. Source	of Emission F	Factor
	value	units		ng AP-42, include	
Carbon Monoxide (CO)	5.5E-03	lb/hp-hr	<b>✓</b> AP-42	☐ Other	□ N/A
Lead (Pb)	6.30E-08	lb/hp-hr	☑ AP-42	☐ Other	□ N/A
Hazardous Air Pollutant (HAP) (specify): Total	1.70E-03	lb/MMBtu	✓ AP-42	Other	□ N/A
Nitrogen Oxides (NO <sub>x</sub> )	0.024	lb/hp-hr	✓ AP-42	Other	□ N/A
Mercury (Hg)			☐ AP-42	☐ Other	□ N/A
Particulate Matter (PM)	7.00E-04	lb/hp-hr	☑ AP-42	☐ Other	□ N/A
Particulate Matter less than 10μm (PM <sub>10</sub> )	7.00E-04	lb/hp-hr	₩ /N +2	☐ Other	□ N/A
Particulate Matter less than 2.5μm (PM <sub>2.5</sub> )	7.00E-04	lb/hp-hr	✓ AP-42	Other	□ N/A
Sulfur Dioxide (SO <sub>2</sub> )	4.05E-04	lb/hp-hr	✓ AP-42	☐ Other	□ N/A
Volatile Organic Compounds (VOC)	7.05E-04	lb/hp-hr	✓ AP-42	☐ Other	□ N/A
Other (specify):			☐ AP-42	☐ Other	□ N/A
Other (specify):			☐ AP-42	Other	
Other (specify):			☐ AP-42	☐ Other	□ N/A



# OAQ PROCESS INFORMATION APPLICATION PI-02H: Combustion – Federal Rule Applicability

State Form 52542 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem

- The purpose of this form is to identify any federal rules that apply to the emission unit.
- Complete one PI-02H form for each emissions unit. If there are multiple emission units that are identical in nature, capacity, and
  use, you may use one PI-02H form to summarize the units.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
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	Federal Rule Applicability	
This table identifies any federal rules that app	ply to the process.	
Is a New Source Performance Standar  If yes, attach a completed FED-01 for each ru	d (NSPS) applicable to this source?	2. Unit IDs
☐ 40 CFR Part 60, Subpart Cb	Large Municipal Waste Combustors (constructed before 9/20/1994)	
☐ 40 CFR Part 60, Subpart Ce	Hospital/Medical/Infectious Waste Incinerators	
☐ 40 CFR Part 60, Subpart D	Fossil-Fuel-Fired Steam Generators (constructed after 8/17/1971)	
☐ 40 CFR Part 60, Subpart Da	Electric Utility Steam Generating Units (constructed after 9/18/1978)	
☐ 40 CFR Part 60, Subpart Db	Industrial-Commercial-Institutional Generating Units	
☐ 40 CFR Part 60, Subpart Dc	Small Industrial-Commercial-Institutional Generating Units	
☐ 40 CFR Part 60, Subpart E	Incinerators	
☐ 40 CFR Part 60, Subpart Ea	Municipal Waste Combustors (constructed after 12/20/1989 and before 9/20/1994)	
☐ 40 CFR Part 60, Subpart Eb	Large Municipal Waste Combustors (constructed after 9/20/1994 or modified / reconstructed after 6/19/1996)	
☐ 40 CFR Part 60, Subpart Ec	Hospital/Medical/Infectious Waste Incinerators (constructed after 6/20/1996)	
☐ 40 CFR Part 60, Subpart O	Sewage Treatment Plants (sludge burners)	
☐ 40 CFR Part 60, Subpart Y	Coal Preparation Plants	
☐ 40 CFR Part 60, Subpart GG	Stationary Gas Turbines	
☐ 40 CFR Part 60, Subpart AAA	New Residential Wood Heaters	
☐ 40 CFR Part 60, Subpart AAAA	Small Municipal Waste Combustion Units (constructed after 8/30/1999 or modified / reconstructed after 6/6/2001)	
☐ 40 CFR Part 60, Subpart BBBB	Small Municipal Waste Combustion Units (constructed on or before 8/30/1999)	
☐ 40 CFR Part 60, Subpart CCCC	Commercial and Industrial Solid Waste Incineration Units (constructed after 11/30/1999 or modified / reconstructed after 6/1/2001)	
☐ 40 CFR Part 60, Subpart DDDD	Commercial and Industrial Solid Waste Incineration Units (constructed on or before 11/30/1999)	
☐ 40 CFR Part 60, Subpart KKKK	Stationary Combustion Turbines	

	Fede	ral Rule Applicability (continued)	
Th	nis table identifies any federal rules that apply	y to the process.	
3.	Is a <b>National Emission Standard for Haz</b> applicable to this source?  If yes, attach a completed FED-01 for each rule	⊠ Yes □ No	4. Unit IDs
	☐ 40 CFR Part 63, Subpart MM	Combustion Sources at Kraft, Soda, and Sulfite Pulp & Paper Mills	
<u> </u>	☐ 40 CFR Part 63, Subpart EEE	Hazardous Waste Combustion	
	☐ 40 CFR Part 63, Subpart YYYY	Stationary Combustion Turbines	
		Reciprocating Internal Combustion Engines (RICE)	EG1 & EG2
	☐ 40 CFR Part 63, Subpart DDDDD	Industrial, Commercial, and Institutional Boilers and Process Heaters	
5.	Non-Applicability Determination: Provide the rule title or the source category), but the	le an explanation if the process unit appears subject to a ru ne rule will not apply.	ule (based on



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		PART A: Storage	& Handing Infor	rmation	
Part A identifies all proprocess units that are in	cess units ass dentical in nat	sociated with storage a ture, capacity, and us	and handling proc e, you may use o	cess for bulk materials. ne form to summarize	If there are multiple the data.
Equipment /     Component Type	2. Unit ID	3. Number of Identical Units	4. Installation Date (see instructions)	5. Material Handled/ Stored	6. Maximum Materials Throughput Rate (tons/vear)
Indoor Storage	RB1	4	TBD	EAF Dust	360,000
			A THE RESIDENCE OF THE PROPERTY OF THE PROPERT		
or considerable management and an account of the constraint of the					
7. Add-On Control T	rechnology: /	dentify all control techno	ologies used for this	unit, and attach complet	ted CE-01 (unless "none").
☐ None					
✓ Baghouse / Fab	oric Filter – Atta	ach CE-02.	☐ Cyclon	e – Attach CE-03	
☐ Electrostatic Pre	ecipitator – Att	ach CE-04	☐ Absorp	otion / Wet Collector / S	Scrubber – Attach CE-05
Adsorber – Attac	:h CE-07.		Other (	(specify):	– Attach CE-10
8. Control Techniqu	es: Identify ar	ny other air emission o	control options us	ed for the process.	
9. Process Limitatio information if nece		al Information: Iden	ntify any acceptab	le process limitations.	Attach additional

T. CTESTS AND			PART B: Proce	ec Material I		aret eteli			
Part B summarizes th and/or handled in this	e process process.	materia				e items	below for each	material stored	
10. Material Handled/Stored (from (able above)	11. Met Har	hod of idling	12. Type of Storage		13. Storage 14. Pile Capacity Acr		15. Silt Content (% by weight)	16. Moisture Content (% by weight)	
EAF Dust	TBD		TBD	TBD	TE	BD	TBD	TBD	
NATION AND ADDRESS OF THE PROPERTY ADDRESS								100	
						<del></del>			
THE YORK WAS TO SEE THE YO							<u> </u>		
	i ala		PART C:	Emission Fac	tors	<sub>tran</sub> sa ku			
Part C identifies all em	ission fac	tors use		5600 5 4		ss units	listed on this fo	rm	
17. Process Equipme		Ĭ	Pollutant	19. Emiss		7			
(complete for all units li Part A of this form)		10. 11.	· onequit	value	units	20. Source of Emission (if not using AP-42, include			
RB1		PM	2 VEF-6006a.1	0.003	gr/dscf	☐ AP-42 🔽		✓ Other	
RB1				0.003	gr/dscf				
	PM-10			0.000	girasoi		***************************************	✓ Other	
			The second secon	**************************************	****	AP		Other	
						AP	-42 [	Other	
			PART D: Fede	ral Rule Appl	icability	Šālva,	gerde Beer geve		
Part D identifies any fe	deral rule	s that ap	ply to the proces	SS.					
21. Is a New Source F If yes, attach a comp.	Performan leted FED-	nce Stan 01 for eac	dard (NSPS) ap	pplicable to this	s source?		[	] Yes ☑ No	
40 CFR Part 60	0, Subpar	t CC	Glass Ma	Glass Manufacturing Plants					
40 CFR Part 60	0, Subpar	t DD	Grain Ele	Grain Elevators					
40 CFR Part 60	), Subpar	t HH	Lime Ma	nufacturing Pla	ants				
40 CFR Part 60	), Subpar	t LL	Metallic I	Mineral Proces	sing Plants				
40 CFR Part 60	), Subpari	UU	Asphalt F	Processing and	d Asphalt Ro	ofing M	anufacture	ı	
40 CFR Part 60	), Subpart	000	Non-Met	allic Mineral P	rocessing Pl	ants			
☐ 40 CFR Part 60	), Subpart	UUU	Calciners	and Dryers ir	Mineral Ind	ustries			
22. Is a National Emis source? If yes, attac	sion Star th a comple	ndard for eted FED	r Hazardous Air 01 for each rule th	' Pollutants (N nat applies.	NESHAP) ap	plicable	to this	] Yes ☑ No	
☐ 40 CFR Part <u>61</u>	, Subpart		(Specify):						
☐ 40 CFR Part 63	, Subpart		(Specify):						
23. Non-Applicability I rule title or the sour	ce catego	ry), but t	he rule will not a	pply.	cess unit ap	pears s	ubject to a rule	(based on the	
Refer to application n	arrative for	detailed	regulatory applical	oility review.			NED-VALUE		



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		PART A: Storage			
Part A identifies all pro- process units that are i	cess units ass dentical in nat	ociated with storage ure, capacity, and us	and handling proc e, you may use or	ess for bulk materials. ne form to summarize t	If there are multiple the data.
1. Equipment / Component Type	2. Unit ID	3. Number of Identical Units	4. Installation Date (see instructions)	5. Material Handled/ Stored	6. Maximum Materials Throughput Rate (tons/year)
Indoor Storage	PB1	1	TBD	EAF dust blend	~442,000
					(EAF Dust, Carbon Material)
					·
7. Add-On Control 1	echnology: /	dentify all control techni	ologies used for this	unit, and attach complet	ed CE-01 (unless "none").
☐ None					!
✓ Baghouse / Fat	oric Filter – Atta	ach CE-02	— <i>'</i>	e – Attach CE-03	
☐ Electrostatic Pr	ecipitator – Att	ach CE-04	Absorp	otion / Wet Collector / S	Scrubber – Attach CE-05
Adsorber – Attac	ch CE-07.		Other	(specify):	- Attach CE-10
8. Control Techniqu	ı <b>es</b> : Identify aı	ny other air emission	control options us	ed for the process.	
9. Process Limitation information if necessity		nal Information: Ide	ntify any acceptab	le process limitations.	Attach additional

Part B summarizes thand/or handled in this	e process process.	material	PART B: Proce			e items	below for each	material stored	
10. Material Handled/Stored (from table above)	11. Met Han	hod of idling	12. Type of Storage	13. Storage Capacit		e reage	15. Silt Content (% by weight)	16. Moisture Content (% by weight)	
EAF dust blend	TBD		TBD	TBD	TE	D	TBD	TBD	
Part C identifies all em	ission fac	tors used		Emission Fac			listed on this for	m.	
17. Process Equipme (complete for all units li Part A of this form)	ent & ID		Pollutant	19. Emiss		20. S	ource of Emiss not using AP-42, in	ion Factor	
PB1		PM		0.003	gr/dscf	□AF	·-42	☑ Other	
PB1		PM-	-10	0.003	gr/dscf	☐ AP		☑ Other	
						☐ AP		Other	
						☐ AP		Other	
	Swell East		DART D. F. J.						
Part D identifies any fed	deral rule:	s that apr	PART D: Fede		cability				
21. Is a New Source P	erformar	nce Stan	dard (NSPS) ap	plicable to this	source?			Yes ☑ No	
☐ 40 CFR Part 60	), Subpart	t CC	Glass Ma	anufacturing P	lants				
☐ 40 CFR Part 60	), Subpart	DD	Grain Ele	evators					
☐ 40 CFR Part 60			Lime Ma	Lime Manufacturing Plants					
☐ 40 CFR Part 60	•		Metallic N	Mineral Proces	sing Plants				
40 CFR Part 60			Asphalt F	Asphalt Processing and Asphalt Roofing Manufacture					
☐ 40 CFR Part 60				allic Mineral Pr	•			:	
☐ 40 CFR Part 60				and Dryers in	***************************************				
22. Is a National Emiss source? If yes, attac	si <b>on Sta</b> n h a comple	idard for eted FED-0	Hazardous Air Of for each rule th	Pollutants (N	IESHAP) ap	plicable	to this	] Yes ☑ No	
☐ 40 CFR Part <u>61</u>			(Specify):						
☐ 40 CFR Part <u>63</u>	, Subpart		(Specify):						
23. Non-Applicability E rule title or the source	e catego	ry), but th	ie rule will not ap	oply.	cess unit ap	pears si	ubject to a rule (	based on the	
Refer to application na	arrative for	detailed r	egulatory applicat	oility review.			· · · · · · · · · · · · · · · · · · ·		



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		PART A: Storage	& Handing Infor	mation			
Part A identifies all process units that are id	cess units ass dentical in nat	ociated with storage ure, capacity, and us	and handling proc e, you may use o	ess for bulk materials. ne form to summarize	If there are multiple the data.		
Equipment /     Component Type	2. Unit ID	D 3. Number of Identical Units			6. Maximum Materials Throughput Rate (tons/year)		
Surge Hopper	RM1-4	4	TBD	EAF Dust Blend	~442,000		
					(EAF Dust, Carbon Material)		
A STATE OF THE PROPERTY OF THE		Maria Company of the	A Table (1990) pp. pp. pp. pp. pp. pp. pp. pp. pp. pp		7		
2/Januari esta esta esta esta esta esta esta esta	And the Transfer of the Control of t	23) (pulpum taran and and an initial file Management and an analysis (Alberta 1911) to the annual Alberta (Alberta 1911)					
T All On Control T	inchnology:	dontify all control techni	ologies used for this	unit, and attach comple	ted CE-01 (unless "none").		
None	eciniology.	Gently all control tourns	and the second s	AND AND STREET OF THE PARTY OF	STATE OF THE PROPERTY OF THE P		
☑ None  ☑ Baghouse / Fab	ric Filter – Att	ach CE-02	Cyclor	ne – Attach CE-03			
☐ Electrostatic Pre	Scrubber – Attach CE-05						
Adsorber – Attac	•		☐ Other	(specify):	- Attach CE-10		
		ny other air emission	control options us	sed for the process.			
AND CONTROL OF THE PROPERTY OF	N. C.	AND THE PROPERTY OF THE PROPER	•				
9. Process Limitation information if necessity	ons / Addition	nal Information: Ide	ntify any acceptal	ole process limitations.	Attach additional		

10. Material Handled/Stored (from table above)	11. Met Har	thod of adling	12. Type of Storage	13. Storage Capacit	. 1	e reage	15. Silt Content (% by weight)	16. Moistur Content (% by weight)		
EAF Dust Blend	TBD	TBD		TBD	TE	BD.	TBD	TBD		
								-		
Part C identifies all em	ission foo	tore uses	PART C:	Emission Fac	tors					
7. Process Equipme			Pollutant							
(complete for all units listed in Part A of this form)		ronutant	19. Emiss	units	20. Se	20. Source of Emission Fa (if not using AP-42, include ca				
RM1-4		PM		0.003	gr/dscf	 □ AP	-42 G	Z Other		
RM1-4		PM-	10	0.003	gr/dscf	☐ AP		Other		
w		v				☐ AP		Other		
						□АР	-42 <u>[</u>	] Other		
			PART D: Fede	ral Rule Appl	icability			A Second		
art D identifies any fed	ieral rules	s that app								
<ol> <li>Is a New Source Po If yes, attach a comple</li> </ol>	erforman	ce Stand	dard (NSPS) ap	plicable to this	source?			Yes ☑ No		
☐ 40 CFR Part 60				nufacturing P	lants	·	· · · · · · · · · · · · · · · · · · ·	3 . 40 [[] [40		
☐ 40 CFR Part 60			Grain Ele	_	ion no					
☐ 40 CFR Part 60	, Subpart	НН	Lime Mar	nufacturing Pla	ints					
☐ 40 CFR Part 60,	, Subpart	LL		_						
☐ 40 CFR Part 60,	, Subpart	UU		Metallic Mineral Processing Plants Asphalt Processing and Asphalt Roofing Manufacture						
☐ 40 CFR Part 60,	Subpart	000		allic Mineral Pr						
☐ 40 CFR Part 60,	Subpart	UUU		and Dryers in	-					
. Is a National Emiss	ion Stan	dard for ted FED-0	Hazardous Air	Pollutants (N			to this	Yes <b>☑</b> No		
source? If yes, attach			(Specify):	ат арриоз.						
Source: If yes, allach	Cuppuit		(-,,),-							
□ 40 CFR Part <u>61</u> ,	-		(Specify):							



State Form \$2543 (R2 / 1-10)
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			PART A: Storage			
Pai pro	t A identifies all produces units that are id	cess units ass dentical in nat	ociated with storage ure, capacity, and us	and handling proc e, you may use o	cess for bulk materials. ne form to summarize	If there are multiple the data.
1.	Equipment / Component Type	2. Unit ID	3. Number of Identical Units	4. Installation Date (see instructions)	5. Material Handled/ Stored	6. Maximum Materials Throughput Rate (tons/year)
Si	lo	FP1-5	5	TBD	Final Product	~442,000
						(EAF Dust, Carbon Material)
						and the second of the control of the
7.	Add-On Control T	echnology: /	dentify all control techno	ologies used for this	unit, and attach complet	ed CE-01 (unless "none").
	None					
	✓ Baghouse / Fab	ric Filter – Atta	ach CE-02	Cyclon	e – Attach CE-03	
	☐ Electrostatic Pre	ecipitator – Att	ach CE-04.	☐ Absorp	otion / Wet Collector / S	Scrubber – Attach CE-05
	Adsorber – Attac	h CE-07		Other	(specify):	- Attach CE-10
8.	The state of the s		ny other air emission	control options us	sed for the process.	
	ANNI V					
9.	Process Limitation information if necessity		nal Information: Iden	ntify any acceptab	le process limitations.	Attach additional
						,

		/y-4/8/4/4/5	PART B: Proce	NA		elector nel		Santa and Alaman	
Part B summarizes th and/or handled in this	e process process.	materia				e items	below for each	material stored	
10. Material Handled/Stored (from table above)	11. Met Har	thod of adling	12. Type of Storage	13. Storage Capacit		e reage	15. Silt Content (% by weight)	16. Moisture Content (% by weight)	
Final Product	TBD		TBD	TBD	TE	3D	TBD	TBD	
T-MEGGAN I									
	S.B. analis	ya da sa wasan	PART C:	Emission Fac	tors	raging Terra	N. St. Contracts	and the second second	
Part C identifies all em	ission fac	tors use				ss units	listed on this for	rm	
17. Process Equipme		İ	· Pollutant		ion Factor				
(complete for all units li Part A of this form)			· • · · · · · · · · · · · · · · · · · ·	value	units		20. Source of Emission Factor (if not using AP-42, include calculated)		
FP1-5		PM		0.003	gr/dscf	[] AD 42 [7] OII		77 04	
FP1-5		PM		0.003	gr/dscf		☐ AP-42		
	FINE-10			0.000	gi/daci	=	4.	✓ Other	
				, , , , , , , , , , , , , , , , , , , ,		AF		Other	
						AP	-42 [	Other	
			PART D: Fede		icability		33,847(29)		
Part D identifies any fed	deral rule	s that ap	ply to the proces	S.	344.11				
21. Is a New Source P If yes, attach a compl	erforman	nce Stan	dard (NSPS) ap	plicable to this	s source?			] Yes ☑ No	
☐ 40 CFR Part 60					lante	<del></del>			
☐ 40 CFR Part 60	•			Glass Manufacturing Plants Grain Elevators					
☐ 40 CFR Part 60	•			nufacturing Pla	ante				
☐ 40 CFR Part 60	•			Vineral Proces					
40 CFR Part 60				Processing and	-	ofina M	anufacture		
☐ 40 CFR Part 60	, Subpart	000		allic Mineral Pr			and a death		
☐ 40 CFR Part 60	, Subpart	UUU		and Dryers in	_				
22. Is a National Emiss source? If yes, attack	sion Star h a comple	idard for ted FED-	· Hazardous Air	Pollutants (N			to this	] Yes ☑ No	
☐ 40 CFR Part <u>61</u>			(Specify):				***************************************		
☐ 40 CFR Part <u>63</u>	, Subpart		(Specify);						
23. Non-Applicability L rule title or the source	Determin	ation: Pr	ovide an explan	ation if the pro	cess unit ap	pears s	ubject to a rule (	based on the	
Refer to application na	arrative for	detailed	regulatory applicat	upiy. Dility review,			MANUAL TO THE PARTY OF THE PART		
			,	•					
								1	



# OAQ CONTROL EQUIPMENT APPLICATION CE-01: Control Equipment Summary

State Form 51904 (R3 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.lN.gov/idem

NOTES:

- The purpose of CE-01 is to summarize all of the equipment used to control emissions. This is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

## **Summary of Control Equipment**

This table summarizes all of the equipment used to control air pollutant emissions. The identification numbers listed on this form should correspond to the emissions unit identified on the Plant Layout diagram and Process Flow diagram.

	ontrol quipment ID	2. Control Equipment Description	3. Pollutant Controlled	4. Emission Unit ID	5. Stack / Vent ID	6. Applicable Rule
PC		Kiln 1 Product Collection Baghouse	PM	KLN1	PC1	NA
PO	D2	Kiln 2 Product Collection Baghouse	PM	KLN2	PC2	NA
RI	BBH1	EAF Receiving Building Baghouse	PM	RB1	RBBH1	NA
CI	BBH1	Carbon/Limestone Receiving Building Baghouse	PM	CB1	CBBH1	NA
PI	BBH1	Pelletizing Building / Cone Pelletizers Baghouse	PM	PB1, CP1, CP2	PBBH1	NA
Pl	BBH2	Pelletizing Building / Rotary Dryer Baghouse	PM	PB1, DRY1	PHHB2	NA
TI	BBH1	Kiln 1 Transition Building / WIP Building Baghouse	PM	TB1, WB1	TBBH1	NA
TI	ввн2	Kiln 2 Transition Building / WIP Building Baghouse	PM	TB2, WB1	TBBH2	NA
F	PBV1	Finished Product Silo No. 1 (Railway) Bin Vent Filter	PM	FP1	FPBV1	NA
F	PBV2	Finished Product Silo No. 2 (Railway) Bin Vent Filter	PM	FP2	FPBV2	NA
F	PBV3	Finished Product Silo No. 3 (Load Supersack) Bin Vent Filter	РМ	FP3	FPBV3	NA
F	PBV4	Finished Product Silo No. 4 (Load Supersack) Bin Vent Filter	PM	FP4	FPBV4	NA
F	PBV5	Finished Product Silo No. 5 (Load Supersack) Bin Vent Filter	PM	FP5	FPBV5	NA
R	RMBV1	EAF Hopper No. 1 (Feed to Cone Pelletizer) Bin Vent Filter	PM	RM1	RMBV1	NA
F	RMBV2	EAF Hopper No. 2 (Feed to Cone Pelletizer) Bin Vent Filter	PM	RM2	RMBV2	NA
F	RMBV3	EAF Hopper No. 3 (Feed to Cone Pelletizer) Bin Vent Filter	PM	RM3	RMBV3	NA
F	RMBV4	EAF Hopper No. 4 (Feed to Cone Pelletizer) Bin Vent Filter	PM	RM4	RMBV4	NA

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# OAQ CONTROL EQUIPMENT APPLICATION CE-02: Particulate Control – Baghouse / Fabric Filter

State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

PART A: Identification and Description of Control Equipment

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its physical properties.						
1. Control Equipment ID: PC1	Control Equipment ID: PC1					
2. Installation Date: 2019	Installation Date: 2019					
3. Bags or Cartridges? ⊠ Bags ☐ Cartridges						
4. Filter Material: Nomex						
5. Number of Bags/Cartridges per Compartment: 228						
6. Number of Compartments: 20						
7. Mode of Operation:	☐ Periodic	⊠ Con				
8. Cleaning Method:	Reverse	Pulse	Reverse A	Air 🛛 Jet Pulse		
9. Cleaning Cycle / Frequency (specify units): TBD						
10. Is a bag leak detector installed on this device?	es 🛛 No					
11. Type / Description of Bag Leak Detector:	ositive Press	ure 🗌 Ne	egative Pressi	ure		
12. Air to Cloth Ratio (Ex: 1.3: 1.0): 4:1						
13. Is Lime Injection used on this device? ☐ Yes ☒ No						
<b>14.</b> Is Carbon Injection used on this device? ☐ Yes ☒ No						
PART B: Operation	al Paramete	rs				
Part B provides the operational parameters of the control device and the pollutant laden gas stream. Appropriate units must be included if the standard units are not used. For each applicable parameter, provide the inlet and outlet values or provide the differential value.						
	A. Units	B. Inlet	C. Outlet	D. Differential		
15. Gas Stream Flow Rate	ACFM	200000.0 0	200000.00			
16. Gas Stream Temperature	°F	320.00	320.00			
17. Gas Stream Pressure	inches of water			to		
18. Moisture Content	%	0.00%	0.00%			
19. Particle Size Range	micrometers	38.00	38.00	to		
20. Lime Injection Rate (if applicable)	lb/hr					
21. Carbon Injection Rate (if applicable)	lb/hr					
22. Other (specify):						

	PART (	C: Pollutant (	Concentration	ıs				
Part C provides the pollutant concen	itrations of the	pollutant lade	en gas stream.					
		23. Units	24. Inlet	25. Outlet	t 26. Efficien	ю (%):		
☑ <b>a</b> . Lead (Pb)					Capture	Control		
b. Hazardous Air Pollutant (H	IAP) (specify);							
	u / (op.a)							
C. Particulate Matter (PM)					100.00%	99.90%		
d. Particulate Matter less than 1					100.00%	99.90%		
e. Particulate Matter less than 2.	5µm ( <b>РМ</b> 2.5)				100.00%	99.90%		
f. Other Pollutant (specify):								
Part D identifies any existing or propo in the permit.	PART D: Monitoring, Record Keeping, & Testing Procedures  Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit.							
27. Item(s) Monitored:								
28. Monitoring Frequency:								
29. Item(s) Recorded:								
30. Record Keeping Frequency:								
31. Pollutant(s) Tested:								
32. Test Method(s):								
33. Testing Frequency:								
PART E: Preventive Maintenance Plan  Part E verifies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if applicable. Use this table as a checklist to ensure that the PMP is complete.								
34. Do you have a Preventive Main	itenance Plan	(PMP)?						
No PMP is needed.	'es - the follow	ving items are	e identified on t	the PMP:				
A. Identification of the indivi	idual(s) responsibl	le for inspecting,	, maintaining and r	repairing emissio	n control devices.			
B. Description of the items of								
C. Schedule for inspection of	of items or condition	ons described at	oove.					
D. Identification and quantification and quant				ed in inventory fo	or quick replacement	i-		
	PART F: Det	termination o	of Integral Con	ntrol				
Part F provides explanation to determ					ntegral to the pro	cess.		
35. Has IDEM already made an inte				ice?		Yes		
Permit Number:	Issuance Dat	ıte:	Detern	mination:	☐ Integral ☐	Not Integral		
36. Is this device integral to the pro If "Yes", provide the reason(s) wh	ocess?  By the device is	s integral.	□No	⊠ Yes				
This device will be used for materi	ial recovery, ar	nd therefore i	it will be integra	al to the proce	ess.			
				-				



# OAQ CONTROL EQUIPMENT APPLICATION CE-02: Particulate Control – Baghouse / Fabric Filter

State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

### NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

PART A: Identification and Description of Control Equipment

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its physical properties.					
1. Control Equipment ID: PC2					
2. Installation Date: 2019					
3. Bags or Cartridges? ⊠ Bags □	Cartridges				
4. Filter Material: Nomex					
5. Number of Bags/Cartridges per Compartm	nent: 228				
6. Number of Compartments: 20					
7. Mode of Operation:					
8. Cleaning Method:	☐ Shaking	☐ Reverse	Pulse	Reverse A	ir 🛛 Jet Pulse
9. Cleaning Cycle / Frequency (specify units):	TBD				
10. Is a bag leak detector installed on this dev	vice? 🔲 Y	es 🛛 No			
11. Type / Description of Bag Leak Detector:	P <sub>0</sub>	ositive Press	ure 🗌 Ne	egative Pressu	re
<b>12.</b> Air to Cloth Ratio (Ex: 1.3 : 1.0): 4.0 : 1					
13. Is Lime Injection used on this device?	☐ Yes 🛭 No				
14. Is Carbon Injection used on this device?	☐ Yes 🛚 No				
PAP	T B: Operation	al Paramete	rs		
Part P provides the energtional parameters of the	e control device	and the poll	utant laden d	gas stream. A	ppropriate units
must be included if the standard units are not use provide the differential value.	ed. For each a	oplicable par	ameter, prov	ide the inlet a	nd outlet values of
provide the differential value.		A. Units	B. Inlet	C. Outlet	D. Differential
15. Gas Stream Flow Rate	700-00000 70000 8-50 F-50 F-50 F-50 F-50 F-50 F-50 F-50 F	ACFM	200000.0 0	200000.00	
16. Gas Stream Temperature		°F	320.00	320.00	
17. Gas Stream Pressure		inches of water			to
18. Moisture Content		%	0.00%	0.00%	
19. Particle Size Range		micrometers	38.00	38	to
20. Lime Injection Rate (if applicable)		lb/hr			
21. Carbon Injection Rate (if applicable)		lb/hr			
22. Other (specify):					
<b>3.1.3.</b> ( <i>Speedy</i> ).					

PART Part C provides the pollutant concentrations of the	C: Pollutant	Concentration	ns		
	23. Units	24. Inlet	25. Outlet	OC Efficience	
	Zo. Omic	44. Inter	Zo. Uunet	26. Efficiency Capture	y (%): Control
a. Lead (Pb)					
<b>b.</b> Hazardous Air Pollutant (HAP) (specify):					
				100.00%	99.90%
☑ d. Particulate Matter less than 10μm (PM₁₀)				100.00%	99.90%
e. Particulate Matter less than 2.5μm (PM <sub>2.5</sub> )				100.00%	99.90%
f. Other Pollutant (specify):					
PART D: Monitoring Part D identifies any existing or proposed monitor in the permit.	i, Record Kee	eping, & Testingeping, & testing	ng Procedures g procedures tha	at may need to b	pe included
27. Item(s) Monitored:					
28. Monitoring Frequency:					
29. Item(s) Recorded:					
30. Record Keeping Frequency:					
31. Pollutant(s) Tested:					
32. Test Method(s):					
33. Testing Frequency:					
PART E: Part E verifies that a complete Preventive Mainten applicable. Use this table as a checklist to ensure  34. Do you have a Preventive Maintenance Plan	nance Plan (PN that the PMP	Maintenance Pl MP) has been p P is complete.	an prepared for the	control device,	if
F-3		e identified on t	the DMD.		
A. Identification of the individual(s) responsil				* -1 da.z	
B. Description of the items or conditions that			epairing emission oc	ontrol devices.	
C. Schedule for inspection of items or condit					
D. Identification and quantification of the rep			and in Inventory for a		
				иск гервасетвета.	
PART F: De Part F provides explanation to determine whether t	termination of the control de	of Integral Cor	ntrol		
35. Has IDEM already made an integral control If "Yes", provide the following:					
Permit Number: Issuance D	ate:	Deterr	mination: 🔲	Integral 🔲 N	lot Integral
36. Is this device integral to the process?  If "Yes", provide the reason(s) why the device it	is integral.	□ No			
This device will be used for material recovery, a	and therefore	it will be integra	al to the process	š.	
<b>.</b>					



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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#### NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

- Detailed instructions for this form are available on the Air Permit Application Forms website.
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  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
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  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its physical properties.								
I. Control Equipment ID: RBBH1								
2. Installation Date:	2019							
3. Bags or Cartridges?	⊠ Bags	☐ Cartridges						
4. Filter Material: POLYESTER								
5. Number of Bags/Cartrido	jes per Compar	tment: 228						
6. Number of Compartment	6. Number of Compartments: 5							
7. Mode of Operation:		Intermittent	☐ Periodic	⊠ Con	tinuous			
8. Cleaning Method:		☐ Shaking	Reverse	Pulse	Reverse A	ir 🛛 Jet Pulse		
9. Cleaning Cycle / Freque	ncy (specify units):	TBD						
10. Is a bag leak detector in	stalled on this d	evice? 🔲 Y	es 🛛 No					
11. Type / Description of Ba	g Leak Detector	P	ositive Press	ure 🔲 Ne	egative Pressu	re		
12. Air to Cloth Ratio (Ex: 1.3	: 1.0): 4:1							
13. Is Lime Injection used on	this device?	☐ Yes 🗵 No						
14. Is Carbon Injection used	on this device?	☐ Yes 🏻 No						
	DΛ	RT B: Operation	al Paramete	rs				
Part B provides the operational must be included if the standar provide the differential value.	al parameters of	the control device	and the poll	utant laden o	gas stream. A ride the inlet a	ppropriate units nd outlet values or		
provide great americania. Value			A. Units	B. Inlet	C. Outlet	D. Differential		
15. Gas Stream Flow Rate		Schools of Plant Delice at 1 and 2 and 2 and 3 and	ACFM	140000.0 0	140000.00			
16. Gas Stream Temperatur	e		°F	77.00	77.00			
17. Gas Stream Pressure			inches of water			to		
18. Moisture Content			%	0.00%	0.00%			
19. Particle Size Range			micrometers	45.00	45.00	to		
20. Lime Injection Rate (if ap	plicable)		lb/hr					
21. Carbon Injection Rate (#			lb/hr					
22. Other (specify):								

Part C provides the pollutant concen	PART Contrations of the	: Pollutant pollutant lac	Concentration den gas stream.	<u>าร</u> า.		
		23. Units	24. inlet	25. Outlet	26. Efficiency	· 10/2)•
					Capture	Control
a. Lead (Pb)						
<b>b.</b> Hazardous Air Pollutant (H/	AP) (specify):					
					100.00%	99.90%
	0um (PM <sub>10</sub> )				100.00%	99.90%
					100.00%	99.90%
f. Other Pollutant (specify):						
PART D Part D identifies any existing or proportion the permit.	: Monitoring, osed monitorin	Record Kee	eping, & Testingeping, & testing	ing Procedures ng procedures th	nat may need to I	oe included
27. Item(s) Monitored:						
28. Monitoring Frequency:						
29. Item(s) Recorded:						
30. Record Keeping Frequency:						
31. Pollutant(s) Tested:						
32. Test Method(s):						
33. Testing Frequency:						
Part E verifies that a complete Prever applicable. Use this table as a check	ntive Maintena	ance Plan (PN	Maintenance Pl MP) has been բ P is complete.	lan prepared for the	e control device,	if
34. Do you have a Preventive Main	itenance Plan	(PMP)?				
No PMP is needed.	'es – the follow	ving items ar	re identified on t	the PMP:		
A. Identification of the indivi	idual(s) responsibl	le for inspecting	յ, maintaining and ։	repairing emission	control devices.	
B. Description of the items of						
C. Schedule for inspection of	of items or condition	ons described a	above.			
D. Identification and quantifi				ned in inventory for	quick replacement.	
			of Integral Cor			
Part F provides explanation to determ					egral to the proce	225
35. Has IDEM already made an inte				vice?	☑ No ☐ Y	
Permit Number:	Issuance Da	ıte:	Deterr	mination:	] Integral ☐ N	Not Integral
36. Is this device integral to the pro- lf "Yes", provide the reason(s) wh		s integral.	⊠ No			



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

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#### NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its physical properties.								
1. Control Equipment ID:	CBBH1							
2. Installation Date:	2019							
3. Bags or Cartridges?	⊠ Bags [	Cartridges						
4. Filter Material:	POLYESTER							
5. Number of Bags/Cartridges per Compartment: 228								
6. Number of Compartments: 5								
7. Mode of Operation:		Intermittent	☐ Period	dic 🗵 Con	tinuous			
8. Cleaning Method:		Shaking	☐ Reve	se Pulse	☐ Reverse A	Air 🛛 Jet Pulse		
9. Cleaning Cycle / Freque	ncy (specify units):	TBD						
10. Is a bag leak detector in	stalled on this de	evice? 🔲 Y	′es 🗵 No					
11. Type / Description of Ba	ig Leak Detector:	: <u> </u>	ositive Pre	ssure N	egative Pressi	ure		
12. Air to Cloth Ratio (Ex: 1.3	: 1.0): 4.0 : 1.0							
13. Is Lime Injection used or	n this device?	☐ Yes 🛛 No						
14. Is Carbon Injection used	I on this device?	☐ Yes 🏻 No						
	PAR	RT B: Operation	al Parame	ters				
Part B provides the operation must be included if the standa provide the differential value.	al parameters of t	he control device	and the p	ollutant laden	gas stream. A vide the inlet a	ppropriate units nd outlet values or		
			A. Units		C. Outlet	D. Differential		
15. Gas Stream Flow Rate			ACFM	140000.0 0	140000.00			
16. Gas Stream Temperatur	re		°F	77.00	77.00			
17. Gas Stream Pressure			inches of water			to		
18. Moisture Content			%	0.00%	0.00%			
19. Particle Size Range			micrometer	s 300.00	300.00	to		
20. Lime Injection Rate (if ap	pplicable)		lb/hr					
21. Carbon Injection Rate (ii			lb/hr					
22. Other (specify):								

	PART C	: Pollutant (	Conce	ntrations				)
Part C provides the pollutant concen	trations of the	pollutant lade	en gas	stream.				
		23. Units	24.	Inlet	25. Outlet	26. Eff	iciency	(%):
⊠ <b>a</b> . Lead (Pb)						Capt	ure	Control
b. Hazardous Air Pollutant (H	AP) (specify):							
⊠ The state of th	/ (0000,1).							
C. Particulate Matter (PM)						100.0	)0%	99.90%
d. Particulate Matter less than 1						100.0	)0%	99.90%
e. Particulate Matter less than 2	.5μm (PM <sub>2,5</sub> )					100.0	00%	99.90%
f. Other Pollutant (specify):								
PART D Part D identifies any existing or proportion the permit.	: Monitoring, osed monitorin	Record Kee	ping, eping,	& Testing & testing p	Procedures rocedures	es that may ne	ed to be	e included
27. Item(s) Monitored:								
28. Monitoring Frequency:								
29. Item(s) Recorded:								
30. Record Keeping Frequency:								
31. Pollutant(s) Tested:								
32. Test Method(s):								
33. Testing Frequency:								
Part E verifies that a complete Prever applicable. Use this table as a check	ntive Maintena	reventive M nce Plan (PN hat the PMP	(IP) ha	s been pre	pared for t	he control de	evice, if	:
34. Do you have a Preventive Main	tenance Plan	(PMP)?						
No PMP is needed.	es - the follow	ving items are	identi	fied on the	PMP:			
A. Identification of the indivi	dual(s) responsibl	e for inspecting,	maintaí	ning and repa	airing emissio	n control device	<b>3</b> 8.	
B. Description of the items of	or conditions that v	will be inspected						
C. Schedule for inspection of	of items or condition	ons described ab	ove.					
D. Identification and quantifi	cation of the repla	cement parts that	at will be	maintained i	in inventory fo	or quick replace	ment.	
Part F provides explanation to determ	PART F: Det ine whether th					ntegral to the	proces	39
35. Has IDEM already made an inte If "Yes", provide the following:					2	⊠ No	☐ Ye	
Permit Number:	Issuance Da	te:		Determin	nation:	Integral	No	ot Integral
36. Is this device integral to the pro- If "Yes", provide the reason(s) wh		integral.		⊠ No	☐ Yes			



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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#### NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

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  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its physical properties.								
1. Control Equipment ID: PBBH1	. Control Equipment ID: PBBH1							
2. Installation Date: 2019								
3. Bags or Cartridges? 🔀 Bags	Cartridges							
4. Filter Material: POLYESTER								
5. Number of Bags/Cartridges per Compart	tment: 288							
6. Number of Compartments:	5							
7. Mode of Operation:	Intermittent	☐ Periodic	⊠ Con					
8. Cleaning Method:	Shaking	Reverse	Pulse	☐ Reverse A	ir 🛛 Jet Pulse			
9. Cleaning Cycle / Frequency (specify units):	TBD							
10. Is a bag leak detector installed on this d	evice? 🗌 Y	es 🛛 No						
11. Type / Description of Bag Leak Detector	: <u>P</u>	ositive Press	ure 🗌 Ne	egative Pressu	ıre			
<b>12.</b> Air to Cloth Ratio (Ex: 1.3 : 1.0): 4.0 : 1.0								
13. Is Lime Injection used on this device?	☐ Yes ⊠ No							
14. Is Carbon Injection used on this device?	☐ Yes ⊠ No							
PA	RT B: Operation	al Paramete	rs					
Part B provides the operational parameters of t must be included if the standard units are not u	the control device	and the poll	utant laden d	gas stream. A ride the inlet a	ppropriate units nd outlet values or			
provide the differential value.				0 0.41-4	D. Differential			
15. Gas Stream Flow Rate		A. Units  ACFM	B. Inlet 140000.0 0	<b>C. Outlet</b> 140000.00	D. Dillerenual			
16. Gas Stream Temperature		°F	77.00	77.00				
17. Gas Stream Pressure		inches of water			to			
18. Moisture Content		%	0.00%	0.00%				
19. Particle Size Range		micrometers	45.00	45.00	to			
20. Lime Injection Rate (if applicable)		lb/hr						
21. Carbon Injection Rate (if applicable)		lb/hr						
22. Other (specify):								
X-FX			<u> </u>					

	PART 0	C: Pollutant	Concentration	ns		
Part C provides the pollutant concer	ntrations of the	pollutant lad	len gas stream	J.		
		23. Units	24. Inlet	25. Outlet	26. Efficiency	<i>I</i> (%):
- cod (Dh)		<del> </del>			Capture	Control
a. Lead (Pb) b. Hazardous Air Pollutant (H.	ΔD) (enerify)					
	Mt ) (Specify).					
C. Particulate Matter (PM)					100.00%	99.90%
d. Particulate Matter less than 1					100.00%	99.90%
e. Particulate Matter less than 2	5μm (PM <sub>2.5</sub> )				100.00%	99.90%
f. Other Pollutant (specify):	Addition					
Part D identifies any existing or propin the permit.	: Monitoring, osed monitorin	Record Kee	ping, & Testing eping, & testing	ng Procedures g procedures tha	at may need to b	e included
27. Item(s) Monitored:						
28. Monitoring Frequency:						
29. Item(s) Recorded:						
30. Record Keeping Frequency:						
31. Pollutant(s) Tested:						
32. Test Method(s):						
33. Testing Frequency:						
Part E verifies that a complete Preve applicable. Use this table as a check	ntive Maintena	ance Plan (PN	Maintenance Pl MP) has been p P is complete.	an prepared for the	control device, i	f
34. Do you have a Preventive Main	itenance Plan	(PMP)?				
No PMP is needed.	'es – the follow	ving items are	e identified on t	the PMP:		
A. Identification of the indivi					ontrol devices.	
B. Description of the items of						
C. Schedule for inspection of	of items or conditic	ons described at	bove.			
D. Identification and quantifi				ned in inventory for c	wick replacement.	
					diox replace	
Part F provides explanation to determ			of Integral Cor vice should be		aral to the proce	ee
35. Has IDEM already made an inte				ico2	No Ye	
Permit Number:	Issuance Da	ite:	Deterr	mination:	Integral N	ot Integral
36. Is this device integral to the pro- If "Yes", provide the reason(s) wh	cess?  y the device is	s integral.	⊠ No			



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.iN.gov/idem

#### NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its physical properties.								
1. Control Equipment ID: PBBH2	Control Equipment ID: PBBH2							
2. Installation Date: 2019								
3. Bags or Cartridges? 🗵 Bags	or Cartridges? 🖂 Bags 🔲 Cartridges							
4. Filter Material: POLYESTER								
5. Number of Bags/Cartridges per Compartment: 288								
6. Number of Compartments: 5								
7. Mode of Operation:	Intermittent	Periodic	⊠ Con					
8. Cleaning Method:	Shaking	Reverse	Pulse	Reverse A	∖ir ⊠ Jet Pulse			
9. Cleaning Cycle / Frequency (specify ur	nits): TBD							
10. Is a bag leak detector installed on the	nis device? 🔲 Y	es 🛛 No						
11. Type / Description of Bag Leak Dete		ositive Press	ure 🔲 Ne	egative Pressu	ıre			
12. Air to Cloth Ratio (Ex: 1.3: 1.0): 4.0:	1.0							
13. Is Lime Injection used on this device?	P ☐ Yes ⊠ No							
14. Is Carbon Injection used on this device	ce? 🗌 Yes 🗵 No							
	PART B: Operation	al Paramete	rs					
Part B provides the operational parameter must be included if the standard units are	s of the control device	and the poll	utant laden 🤉	gas stream. A ride the inlet a	ppropriate units nd outlet values or			
provide the differential value.			D 1-1-4	C. Outlet	D. Differential			
15. Gas Stream Flow Rate		A. Units  ACFM	<b>B. Inlet</b> 140000.0	140000.00	D. Dilletendal			
16. Gas Stream Temperature		°F	77.00	77.00				
17. Gas Stream Pressure		inches of water			to			
18. Moisture Content		%	0.00%	0.00%				
19. Particle Size Range		micrometers	45.00	45.00	to			
20. Lime Injection Rate (if applicable)		lb/hr						
21. Carbon Injection Rate (if applicable)		lb/hr						
22. Other (specify):								

Part C provides the pollutant concen	PART Contrations of the	: Pollutant pollutant lac	Concentration den gas stream	ns n.		
		23. Units	24. Inlet	25. Outlet	26. Efficienc	~ (0/).
					Capture	Control
a. Lead (Pb)						
b. Hazardous Air Pollutant (HA	AP) (specify):					
					100.00%	99.90%
					100.00%	99.90%
e. Particulate Matter less than 2.	5µm (РМ <sub>2.5</sub> )				100.00%	99.90%
f. Other Pollutant (specify):						
Part D identifies any existing or propo in the permit.	: Monitoring, osed monitorin	Record Kee	eping, & Testineping, & testin	ing Procedures ng procedures ti	s that may need to	be included
27. Item(s) Monitored:						
28. Monitoring Frequency:						
29. Item(s) Recorded:						
30. Record Keeping Frequency:						
31. Pollutant(s) Tested:						
32. Test Method(s):	<u> </u>					
33. Testing Frequency:	<u> </u>					
Part E verifies that a complete Prever applicable. Use this table as a check  34. Do you have a Preventive Main	entive Maintena klist to ensure tl	ance Plan (PN that the PMP	Maintenance Pl MP) has been p P is complete.	lan prepared for th	ne control device,	if
			e identified on t	the PMP:		
A. Identification of the individ					n control devices.	
B. Description of the items of						
C. Schedule for inspection o						
D. Identification and quantification				ned in inventory fo	or quick replacement.	
	PART F: Det	termination	of Integral Cor	entrol		
Part F provides explanation to determ					tegral to the proc	ess.
35. Has IDEM already made an inte If "Yes", provide the following:				vico2		Yes
Permit Number:	Issuance Dat	ıte:	Deterr	mination:	integral	Not Integral
36. Is this device integral to the pro If "Yes", provide the reason(s) why	cess?  y the device is	s integral.	⊠ No			
				·		



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimite Number: (317) 232-6749

www.IN.gov/idem

NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its physical properties.								
1. Control Equipment ID: TBBH1								
2. Installation Date: 2019								
3. Bags or Cartridges? ⊠ Bags □	Cartridges							
4. Filter Material: NOMEX								
5. Number of Bags/Cartridges per Comparts	ment: 288							
6. Number of Compartments:	5							
7. Mode of Operation:	Intermittent	Periodic	⊠ Con					
8. Cleaning Method:	Shaking	Reverse	Pulse	Reverse A	ir 🛛 Jet Pulse			
9. Cleaning Cycle / Frequency (specify units):	TBD							
10. Is a bag leak detector installed on this de	vice? 🔲 Y	es 🛛 No						
11. Type / Description of Bag Leak Detector:	P	ositive Press	ure 🔲 Ne	egative Pressu	ire			
<b>12.</b> Air to Cloth Ratio (Ex: 1.3 : 1.0): 4.0 : 1.0								
13. Is Lime Injection used on this device?	☐ Yes ⊠ No							
14. Is Carbon Injection used on this device?	☐ Yes 🛛 No							
PAR	T B: Operation	al Paramete	rs					
Part B provides the operational parameters of the must be included if the standard units are not us provide the differential value.	ne control device	and the poll	utant laden g	gas stream. A ide the inlet a	ppropriate units nd outlet values or			
		A. Units	B. Inlet	C. Outlet	D. Differential			
15. Gas Stream Flow Rate		ACFM	140000.0 0	140000.00				
16. Gas Stream Temperature		°F	140.00	140.00				
17. Gas Stream Pressure		inches of water			to			
18. Moisture Content		%	0.00%	0.00%				
19. Particle Size Range		micrometers	45.00	45.00	to			
20. Lime Injection Rate (if applicable)		lb/hr						
21. Carbon Injection Rate (if applicable)		lb/hr			:			
22. Other (specify):								

	PART (	C: Pollutant	Concent	trations				
Part C provides the pollutant concer	ntrations of the	pollutant lad	len gas st	tream.				
		23. Units	24. ini	ilet	25. Outlet	. 26. Effi	iciency (	(%):
<b>a.</b> Lead (Pb)		1				Capti	.ure	Control
b. Hazardous Air Pollutant (H	IAP) (specify):							
	, (open.y).							
C. Particulate Matter (PM)						100.0	)0%	99.90%
d. Particulate Matter less than 1						100.0	10%	99.90%
e. Particulate Matter less than 2	5μm (PM <sub>2.5</sub> )					100.0	10%	99.90%
f. Other Pollutant (specify):								
PART D Part D identifies any existing or prop in the permit.	D: Monitoring, posed monitorin	Record Kee	eping, & i	Testing F testing pro	rocedure ocedures	that may ned	∋d to be	included
27. Item(s) Monitored:								
28. Monitoring Frequency:								
29. Item(s) Recorded:								-
30. Record Keeping Frequency:								
31. Pollutant(s) Tested:								
32. Test Method(s):							-	
33. Testing Frequency:								
Part E verifies that a complete Prever applicable. Use this table as a check	entive Maintena	Preventive Mance Plan (Plant that the PMP	MP) has b	been prep	ared for ti	he control de	evice, if	
34. Do you have a Preventive Main	itenance Plan	(PMP)?						
No PMP is needed.	Yes – the follow	ving items ar	e identifie	ed on the I	PMP:			
A. Identification of the indivi						n control device	es	
B. Description of the items								
C. Schedule for inspection of	of items or condition	ons described a	ibove.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
D. Identification and quantifi				maintained in	inventory fo	or quick replace	mont	
						I quiek replace.	nem,	
Part F provides explanation to determ	PART F: Deto nine whether th					itearal to the	proces	S
35. Has IDEM already made an inte					)	⊠ No	☐ Yes	
Permit Number:	Issuance Da	ıte:	Г	Determina	ation:[	Integral	П	t Integral
36. Is this device integral to the pro- If "Yes", provide the reason(s) wh	ocess? By the device is	integral.		⊠ No	☐ Yes			-



State Form 51953 (R2 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Identification and Descr Part A identifies the particulate control device and describes its			IOTIC			
1. Control Equipment ID: TBBH2						
2. Installation Date: 2019						
3. Bags or Cartridges?   Bags   Cartridges						
4. Filter Material: NOMEX						
5. Number of Bags/Cartridges per Compartment: 288						
6. Number of Compartments: 5						
7. Mode of Operation: Intermittent						
8. Cleaning Method: Shaking	Reverse	Pulse	Reverse A	Air 🛛 Jet Pulse		
9. Cleaning Cycle / Frequency (specify units): TBD						
10. Is a bag leak detector installed on this device?	es 🛛 No					
11. Type / Description of Bag Leak Detector:	ositive Press	ure 🔲 Ne	egative Pressu	ıre		
12. Air to Cloth Ratio (Ex: 1.3: 1.0): 4.0:1						
13. Is Lime Injection used on this device? ☐ Yes ☒ No						
14. Is Carbon Injection used on this device? ☐ Yes ☒ No						
PART B: Operation	al Daramata	.vc				
Part B provides the operational parameters of the control device must be included if the standard units are not used. For each a provide the differential value.	and the poll	utant laden (	gas stream. A vide the inlet a	appropriate units nd outlet values or		
	A. Units	B. Inlet	C. Outlet	D. Differential		
15. Gas Stream Flow Rate	ACFM	140000.0 0	140000.00			
16. Gas Stream Temperature	°F	140.00	140.00			
17. Gas Stream Pressure	inches of water			to		
18. Moisture Content	%	0.00%	0.00%			
19. Particle Size Range	micrometers	45.00	45.00	to		
20. Lime Injection Rate (if applicable)	lb/hr					
21. Carbon Injection Rate (if applicable)	lb/hr					
22. Other (specify):						

Bort C provides the pollutant concen	PART C	C: Pollutant	Concentration	ns		
Part C provides the pollutant concent	trations or the					
		23. Units	24. Inlet	25. Outlet	26. Efficiency	
	<u>Gallin ann an a</u>				Capture	Control
b. Hazardous Air Pollutant (HA	AP) (specify):					
					100.00%	99.90%
	0μm (PM <sub>10</sub> )				100.00%	99.90%
e. Particulate Matter less than 2.5	.5μm (PM <sub>2.5</sub> )				100.00%	99.90%
f. Other Pollutant (specify):						
in the permit.  27. Item(s) Monitored:	Monitoring, sed monitorin	Record Kee	eping, & Testing eping, & testing	ing Procedures ng procedures tha	at may need to b	e included
28. Monitoring Frequency:						
29. Item(s) Recorded:						
30. Record Keeping Frequency:	:					
31. Pollutant(s) Tested:						
32. Test Method(s):						
33. Testing Frequency:						
A. Identification of the individ  B. Description of the items or  C. Schedule for inspection of  D. Identification and quantific  Part F provides explanation to determine  35. Has IDEM already made an integral	ntive Maintenan dist to ensure the tenance Plan des — the follow dual(s) responsible or conditions that we fitten of the replacement of the replac	ance Plan (PM) that the PMP (PMP)? wing items are ble for inspecting, will be inspected ons described ab accement parts the termination of	P is complete. The identified on the identified of the identified of integral Corporate should be identified in	the PMP: repairing emission co	control devices.  quick replacement.  gral to the proces	ess.
If "Yes", provide the following:					No Ye	
36. Is this device integral to the product of "Yes", provide the reason(s) why	Issuance Datecess?  y the device is		<b>Detern</b> ⊠ No		Integral  No	lot Integral
		•				



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

#### NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and describes its p	ohysical prope	erties.		
1. Control Equipment ID: FPBV1				
2. Installation Date: 2019				
3. Bags or Cartridges? 🖂 Bags 🗌 Cartridges				
4. Filter Material: POLYESTER				
5. Number of Bags/Cartridges per Compartment: 24				
6. Number of Compartments: 1				
7. Mode of Operation:	Periodic	⊠ Con		
8. Cleaning Method: Shaking	Reverse	Pulse	Reverse A	ir ⊠ Jet Pulse
9. Cleaning Cycle / Frequency (specify units): TBD				
10. Is a bag leak detector installed on this device?	′es ⊠ No			
11. Type / Description of Dag Loan Description	Positive Press	ure 🔲 Ne	egative Pressu	ıre
12. Air to Cloth Ratio (Ex: 1.3: 1.0): 4.0: 1.0				
13. Is Lime Injection used on this device? ☐ Yes ☐ No				
<b>14.</b> Is <b>Carbon Injection</b> used on this device? ☐ Yes ☒ No				
PART B: Operation	nal Paramete	rs		
D-+ Dides the exerctional parameters of the control device	e and the poll	utant laden o	gas stream. A	ppropriate units
must be included if the standard units are not used. For each a provide the differential value.	ipplicable par	ameter, prov	nue une uniei a	ild outlet values of
provide the americans.	A. Units	B. Inlet	C. Outlet	D. Differential
15. Gas Stream Flow Rate	ACFM	3145.00	3145.00	
16. Gas Stream Temperature	°F	212.00	212.00	
17. Gas Stream Pressure	inches of water			to
18. Moisture Content	%	0.00%	0.00%	
19. Particle Size Range	micrometers	38.00	38.00	to
20. Lime Injection Rate (if applicable)	lb/hr			
21. Carbon Injection Rate (if applicable)	lb/hr			
22. Other (specify):	1			

Part C provides the pollutant conce	PART (	C: Pollutant	Concentration	ıs		
	The Guorio C	23. Units	24. Inlet		22	-
		20. Unito	24. Imet	25. Outlet	26. Efficiency Capture	cy (%): Control
a. Lead (Pb)					- Supra	Jones.
<b>b.</b> Hazardous Air Pollutant (H	IAP) (specify):					
					100.00%	99.90%
	10μm (PM <sub>10</sub> )				100.00%	99.90%
e. Particulate Matter less than 2	2.5μm ( <b>PM</b> <sub>2.5</sub> )				100.00%	99.90%
f. Other Pollutant (specify):						
PART I Part D identifies any existing or prop in the permit. 27. Item(s) Monitored:	D: Monitoring, posed monitoring	Record Kee	eping, & Testing eeping, & testing	g Procedure j procedures t	s that may need to k	pe included
28. Monitoring Frequency:						
29. Item(s) Recorded:						
30. Record Keeping Frequency:						
31. Pollutant(s) Tested:						
32. Test Method(s):						
33. Testing Frequency:						
A. Identification of the indiving B. Description of the items of C. Schedule for inspection of D. Identification and quantification and quantifica	entive Maintena elitist to ensure the ensure that ensure the ensure that ensure the ensure that ensure the ensure that ensure th	ance Plan (PM) that the PMP of (PMP)? wing items are ble for inspecting, will be inspected. ons described ab accement parts that termination of	e identified on the identified	the PMP: repairing emission ed in inventory for	n control devices. or quick replacement.	
35. Has IDEM already made an inte If "Yes", provide the following:	gral control d	etermination	n for this devi	ce?	⊠ No □ Ye	es
Permit Number:	Issuance Dat	ite:	Detern	nination:	☐ Integral ☐ No	lot Integral
36. Is this device integral to the pro If "Yes", provide the reason(s) wh	ocess? Ty the device is	s integral.	□ No	⊠ Yes		
This device will be used for mater	ial recovery, an	nd therefore if	t will be integra	il to the proces	SS.	



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www.lN.gov/idem

NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulate control device and descri	bes its physical prop	erties.		
1. Control Equipment ID: FPBV2				
2. Installation Date: 2019				
3. Bags or Cartridges? 🖂 Bags 🗌 Cartrid	dges			
4. Filter Material: POLYESTER				
5. Number of Bags/Cartridges per Compartment:	24			
6. Number of Compartments: 1				
7. Mode of Operation:	rmittent 🗌 Periodic			
8. Cleaning Method:	king 🗌 Reverse	Pulse	Reverse A	ir ⊠ Jet Pulse
9. Cleaning Cycle / Frequency (specify units):	TBD			
10. Is a bag leak detector installed on this device?	☐ Yes ⊠ No			
11. Type / Description of Bag Leak Detector:	☐ Positive Press	ure 🗌 No	egative Pressu	ıre
12. Air to Cloth Ratio (Ex: 1.3 : 1.0): 4 : 1				
13. Is Lime Injection used on this device?	i ⊠ No			
14. Is Carbon Injection used on this device?	No			
PART B: Or	perational Paramete	rs		
Part B provides the operational parameters of the control must be included if the standard units are not used. For provide the differential value.	ol device and the poll	utant laden g	gas stream. A ride the inlet a	ppropriate units nd outlet values or
	A. Units	B. Inlet	C. Outlet	D. Differential
15. Gas Stream Flow Rate	ACFM	3145.00	3145.00	
16. Gas Stream Temperature	°F	212.00	212.00	
17. Gas Stream Pressure	inches of water			to
18. Moisture Content	%	0.00%	0.00%	
19. Particle Size Range	micrometers	38.00	38.00	to
20. Lime Injection Rate (if applicable)	lb/hr			
21. Carbon Injection Rate (if applicable)	lb/hr			
22. Other (specify):				

Part C provides the pollutant concer	PART C	C: Pollutant (	Concentrat	ions			
1 art o provides the politicant concer	Madons of the						
		23. Units	24. Inlet	25. Outl		fficiency	
a. Lead (Pb)	<u> Litterik kan kan kan kan kan kan kan kan kan ka</u>				Uaş	pture	Control
<b>b.</b> Hazardous Air Pollutant (H.	AP) (specify):						
					100	.00%	99.90%
d. Particulate Matter less than 1	0μm ( <b>PM</b> <sub>10</sub> )				100	.00%	99.90%
e. Particulate Matter less than 2	5μm (PM <sub>2.5</sub> )				100	.00%	99.90%
f. Other Pollutant (specify):							
Part D identifies any existing or propin the permit.  27. Item(s) Monitored:	D: Monitoring, osed monitoring	Record Kee	ping, & Tes eping, & tes	sting Procedure	ires es that may no	ed to be	e included
28. Monitoring Frequency:							
29. Item(s) Recorded:							
30. Record Keeping Frequency:							
31. Pollutant(s) Tested:							
32. Test Method(s):							
33. Testing Frequency:							
A. Identification of the indivi	ntive Maintena dist to ensure to tenance Plan es – the follow idual(s) responsible or conditions that we of items or condition fication of the replations PART F: Detaining whether the	that the PMP  (PMP)?  wing items are ble for inspecting, will be inspected ons described at accement parts the termination of	MP) has been is completed is completed in the identified of the identified in the identified of the identified in the id	en prepared for e.  on the PMP:  ind repairing emiss  itained in inventory  Control  be considered	sion control devic y for quick replac	ces.	SS.
If "Yes", provide the following:			n for uns u	evice (	⊠ No	☐ Ye	s
Permit Number:	issuance Da	ıte:	Det	ermination:	☐ Integral	No	ot Integral
<ol> <li>Is this device integral to the pro If "Yes", provide the reason(s) wh</li> </ol>		integral.	1	No 🛭 Ye	es		
This device will be used for mater	ial recovery, a	nd therefore	it will be inte	gral to the pro	)cess.		



State Form 51953 (R2 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana)

Facsimile Number: (317) 232-6749 www.iN.gov/idem

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Identification and Descri	ption of Cor	trol Equipn	nent				
Part A identifies the particulate control device and describes its p	ohysical prop	erties.					
1. Control Equipment ID: FPBV3							
2. Installation Date: 2019							
3. Bags or Cartridges? 🖂 Bags 🗌 Cartridges							
4. Filter Material: POLYESTER							
5. Number of Bags/Cartridges per Compartment: 24							
6. Number of Compartments: 1							
7. Mode of Operation:							
8. Cleaning Method:	Reverse	Pulse	Reverse A	\ir ⊠ Jet Pulse			
9. Cleaning Cycle / Frequency (specify units): TBD							
10. Is a bag leak detector installed on this device?	es 🛛 No						
11. Type / Description of Bag Leak Detector:	ositive Press	ure 🔲 Ne	egative Pressi	ıre			
12. Air to Cloth Ratio (Ex: 1.3 : 1.0): 4.0 : 1.0							
13. Is Lime Injection used on this device? ☐ Yes ☒ No							
14. Is Carbon Injection used on this device? ☐ Yes ☒ No							
PART B: Operation	al Paramete	re					
Bort B provides the operational parameters of the control device	and the poll	utant laden o	gas stream. A	ppropriate units			
must be included if the standard units are not used. For each a	pplicable par	ameter, prov	ide the inlet a	nd outlet values or			
provide the differential value.	A. Units	B. Inlet	C. Outlet	D. Differential			
La O Ol Flam Bata	ACFM	3145.00	3145.00				
15. Gas Stream Flow Rate	°F	212.00	212.00				
16. Gas Stream Temperature	inches of			to			
17. Gas Stream Pressure	water %	0.00%	0.00%				
18. Moisture Content	micrometers	38.00	38.00	to			
19. Particle Size Range	lb/hr		55,57				
20. Lime Injection Rate (if applicable)	lb/hr						
21. Carbon Injection Rate (if applicable)	ID/IB						
22. Other (specify):		1					

Part C provides the pollutent consentations of the	: Pollutant	Concentration	ıs		
Part C provides the pollutant concentrations of the	2	en gas stream.			
	23. Units	24. inlet	25. Outlet	26. Efficiency	
☑ a. Lead (Pb)	1			Capture	Control
b. Hazardous Air Pollutant (HAP) (specify):					
				100.00%	99.90%
☑ d. Particulate Matter less than 10μm (PM₁₀)				100.00%	99.90%
e. Particulate Matter less than 2.5μm (PM₂,5)				100.00%	99.90%
f. Other Pollutant (specify):					
PART D: Monitoring, Part D identifies any existing or proposed monitoring in the permit.  27. Item(s) Monitored:	Record Kee	ping, & Testing eping, & testing	ng Procedures g procedures tha	at may need to b	e included
28. Monitoring Frequency:					
29. Item(s) Recorded:					
30. Record Keeping Frequency:					
31. Pollutant(s) Tested:					
32. Test Method(s):					
33. Testing Frequency:					
PART E: P Part E verifies that a complete Preventive Maintena applicable. Use this table as a checklist to ensure to 34. Do you have a Preventive Maintenance Plan	ince Plan (PN that the PMP	laintenance Pl MP) has been p is complete.	an prepared for the	control device, i	f
No PMP is needed. Yes – the follow		e identified on t	he PMP		
A. Identification of the individual(s) responsible				ontrol dovices	
B. Description of the items or conditions that v			channing officered.	Millor devices.	
C. Schedule for inspection of items or condition					
D. Identification and quantification of the repla			at the transfer of the contract of the contrac		
				uick replacement.	
		of Integral Con			
Part F provides explanation to determine whether th  35. Has IDEM already made an integral control d  If "Yes", provide the following:					
Permit Number: Issuance Date	te:	Detern	nination:	Integral  N	ot Integral
36. Is this device integral to the process?  If "Yes", provide the reason(s) why the device is		☐ No	⊠ Yes	Integral Liv	Ot Hitegrai
This device will be used for material recovery, ar	nd therefore i	it will be integra	al to the process	<b>5</b> ,	
			·		



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

#### NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

Part A identifies the particulat	e control device a	nd describes its	physical prop	erties.		
1. Control Equipment ID:	FPBV4					
2. Installation Date:	2019					
3. Bags or Cartridges?	⊠ Bags	☐ Cartridges				
4. Filter Material:	POLYESTER					
5. Number of Bags/Cartrid	ges per Compar	tment: 24				
6. Number of Compartmen	nts:	1				
7. Mode of Operation:		☐ Intermittent	Periodic	⊠ Con	tinuous	
8. Cleaning Method:		Shaking	Reverse	Pulse	Reverse A	ir ⊠ Jet Pulse
9. Cleaning Cycle / Freque	ency (specify units):	TBD				
10. Is a bag leak detector in	istalled on this d	levice? 🗌 Y	′es ⊠ No			
11. Type / Description of Ba	ag Leak Detector	r: <u> </u>	ositive Press	ure 🗌 No	egative Pressu	ıre
12. Air to Cloth Ratio (Ex: 1.3	3 : 1.0): 4.0 : 1.0					
13. Is Lime Injection used o	n this device?	☐ Yes 🏻 No				
14. Is Carbon Injection used	d on this device?	🗌 Yes 🛚 No				
		RT B: Operation	al Paramete	re		
Part B provides the operation must be included if the stand provide the differential value.	al parameters of	the control device	and the poll	utant laden (	gas stream. A vide the inlet a	ppropriate units nd outlet values or
			A. Units	B. Inlet	C. Outlet	D. Differential
15. Gas Stream Flow Rate			ACFM	3145.00	3145.00	
16. Gas Stream Temperatu	re		°F-	212.00	212.00	
17. Gas Stream Pressure			inches of water			to
18. Moisture Content			%	0.00%	0.00%	
19. Particle Size Range			micrometers	38.00	38.00	to
20. Lime Injection Rate (if a	oplicable)		lb/hr			
21. Carbon Injection Rate (			lb/hr			
22. Other (specify):						

		C: Pollutant C						
Part C provides the pollutant concen	trations of the	pollutant lade	en gas strea	m.				
		23. Units	24. Inlet	25. Outi	et 26. Eff	iciency (%):		
					Capt			
a. Lead (Pb)								
<b>b.</b> Hazardous Air Pollutant (HA⊠	AP) (specify):							
					100.0	99.90%		
d. Particulate Matter less than 10	)μm (PM <sub>10</sub> )				100.0	99.90%		
e. Particulate Matter less than 2.								
f. Other Pollutant (specify):								
PART D Part D identifies any existing or proportion the permit.	: Monitoring, osed monitorin	Record Kee	ping, & Tes eping, & test	ting Procedure	ires s that may nee	ed to be included		
27. Item(s) Monitored:								
28. Monitoring Frequency:								
29. Item(s) Recorded:								
30. Record Keeping Frequency:								
31. Pollutant(s) Tested:								
32. Test Method(s):								
33. Testing Frequency:								
Part E verifies that a complete Prever applicable. Use this table as a check	ntive Maintena	Preventive Mance Plan (PM That the PMP	MP) has bee	n prepared for	the control de	evice, if		
34. Do you have a Preventive Main	tenance Plan	(PMP)?						
No PMP is needed.      □ Y	es – the follow	ving items are	e identified o	n the PMP:				
A. Identification of the indivi					sion control device	<b>?</b> S.		
B. Description of the items of								
C. Schedule for inspection of				, , , , , , , , , , , , , , , , , , , ,				
D. Identification and quantific				ained in Inventory	for quick replace	ment		
					To delet show	more.		
Part F provides explanation to determ	PART F: Det ine whether th				integral to the	process.		
35. Has IDEM already made an inte If "Yes", provide the following:	gral control d	leterminatio	n for this de	evice?	⊠ No	☐ Yes		
Permit Number:	Issuance Da	ıte:	Dete	ermination:	☐ Integral	☐ Not Integral		
36. Is this device integral to the pro If "Yes", provide the reason(s) wh	cess? y the device is	s integral.		lo 🛚 Y				
This device will be used for materi	al recovery, a	nd therefore	it will be inte	gral to the pro	cess.			
			·	,				



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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NOTES:

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).

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  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
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  any one to inspect and photocopy.

Part A identifies the particulate control device and describes it	s physical prop	erties.		
1. Control Equipment ID: FPBV5				
2. Installation Date: 2019				
3. Bags or Cartridges? ⊠ Bags ☐ Cartridges				
4. Filter Material: POLYESTER				
5. Number of Bags/Cartridges per Compartment: 24				
6. Number of Compartments: 1				
7. Mode of Operation:	nt 🗌 Periodic	⊠ Con	tinuous	
8. Cleaning Method: Shaking	Reverse	Pulse	Reverse A	Air ⊠ Jet Pulse
9. Cleaning Cycle / Frequency (specify units): TBD				
10. Is a bag leak detector installed on this device?	Yes 🛛 No			
11. Type / Description of Bag Leak Detector:	Positive Press	ure 🗌 No	egative Pressi	ure
<b>12.</b> Air to Cloth Ratio (Ex: 1.3: 1.0): 4.0: 1.0				
13. Is Lime Injection used on this device? ☐ Yes ☑ N	lo			
14. Is Carbon Injection used on this device? ☐ Yes ☒ N	10			
PART B: Operati	onal Paramete	re		
Part B provides the operational parameters of the control dever must be included if the standard units are not used. For each	ice and the poll	utant laden	gas stream. A vide the inlet a	appropriate units nd outlet values or
provide the differential value.				
	A. Units	B. Inlet 3145.00	C. Outlet 3145.00	D. Differential
15. Gas Stream Flow Rate	ACFM			
16. Gas Stream Temperature	°F inches of	212.00	212.00	
17. Gas Stream Pressure	water			to
18. Moisture Content	%	0.00%	0.00%	
19. Particle Size Range	micrometers	38.00	38.00	to
20. Lime Injection Rate (if applicable)	lb/hr			
21. Carbon Injection Rate (if applicable)	lb/hr			
22. Other (specify):				

			Concentratio				
Part C provides the pollutant concen	trations of the	pollutant lad	en gas stream	٦.			
		23. Units	24. Inlet	25. Outle	et 26. Effi	ciency (%,	):
					Captu		Control
a. Lead (Pb)	*						
<b>b.</b> Hazardous Air Pollutant (HA	AP) (specify):						
					100.0	0% 9	99.90%
d. Particulate Matter less than 10	Ͻμm (PM <sub>10</sub> )				100.0	0% 9	99.90%
e. Particulate Matter less than 2.	5μm (PM <sub>2.5</sub> )				100.0	0% 9	99.90%
f. Other Pollutant (specify):							
PART D	: Monitoring,	Record Kee	oning & Toet	ing Procedu	****		
Part D identifies any existing or propo	osed monitorin	ig, record ke	eping, & testin	ng procedure	res s that may nee	d to be in	ncluded
in the permit.					-		
27. Item(s) Monitored:							
28. Monitoring Frequency:							
29. Item(s) Recorded:						***************************************	
30. Record Keeping Frequency:							
31. Pollutant(s) Tested:							
32. Test Method(s):							
33. Testing Frequency:							
	PART E: F	reventive N	laintenance F	Plan			
Part E verifies that a complete Prever	ntive Maintena	ance Plan (PN	MP) has been	prepared for	the control de	vice, if	
applicable. Use this table as a checkl			is complete.				
34. Do you have a Preventive Main							
	es – the follow						
A. Identification of the individ				repairing emiss	ion control devices	<u>s.</u>	
B. Description of the items o	r conditions that v	will be inspected	<u>i,</u>				
C. Schedule for inspection o	f items or condition	ons described at	bove.				
D. Identification and quantific	cation of the repla	acement parts th	at will be maintai	ned in inventory	for quick replacer	nent.	
	PART F: Det	termination	of Integral Co	ontrol			
Part F provides explanation to determ					integral to the	process.	
35. Has IDEM already made an integer of "Yes", provide the following:					⊠ No	☐ Yes	
Permit Number:	Issuance Da	ıte:	Deter	mination:	☐ Integral	☐ Not I	ntegral
36. Is this device integral to the pro If "Yes", provide the reason(s) why		s integral.	□ No	Σ <u>Σ</u> Υ€			
This device will be used for materi	ial recovery, a	nd therefore	it will be integ	ral to the pro	cess.		
	-		~				



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Part A identifies the particulate control device and describes its physical properties.

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NOTES:

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				1
l. Control Equipment ID: RMBV1				
2. Installation Date: 2019				
3. Bags or Cartridges? ⊠ Bags ☐ Cartrid	dges			
I. Filter Material: POLYESTER				
5. Number of Bags/Cartridges per Compartment:	24			
6. Number of Compartments: 1				
7. Mode of Operation:	rmittent 🗌 Periodic	⊠ Con	tinuous	
3. Cleaning Method:	king 🔲 Reverse	Pulse	Reverse A	Air ⊠ Jet Pulse
Cleaning Cycle / Frequency (specify units):	TBD			
10. Is a bag leak detector installed on this device?	☐ Yes 🛭 No			
11. Type / Description of Bag Leak Detector:	☐ Positive Press	ure 🗌 N	egative Pressi	ure
12. Air to Cloth Ratio (Ex: 1.3 : 1.0): 4.0 : 1				
	⊠ No			
	⊠ No			
•				
PART B: Op	erational Paramete	rs	ano otroom A	Annoprioto Unite
Part B provides the operational parameters of the control must be included if the standard units are not used. For	oi device and the poii reach applicable par	utant lauen i ameter, pro\	yas siream. <i>F</i> vide the inlet a	ind outlet values or
provide the differential value.		/ ,		
	A. Units	B. Inlet	C. Outlet	D. Differential
15. Gas Stream Flow Rate	ACFM	3145.00	3145	
16. Gas Stream Temperature	°F	77.00	77.00	
17. Gas Stream Pressure	inches of water			to
18. Moisture Content	%	0.00%	0.00%	
19. Particle Size Range	micrometers	45.00	45.00	to
20. Lime Injection Rate (if applicable)	lb/hr			
21. Carbon Injection Rate (if applicable)	lb/hr			
22. Other (specify):				

		laden gas stream	ns I.		
	23. Units	s 24. inlet	25. Outlet	26. Efficiency	/ (%):
				Capture	Control
a. Lead (Pb)  b. Hazardous Air Pollutant (H	10 PM (10 M)				
<b>b.</b> Hazardous Air Pollutant (F	IAP) (specity):			:	
				100.00%	99.90%
d. Particulate Matter less than	10μm (PM <sub>10</sub> )			100.00%	99.90%
e. Particulate Matter less than :	2.5µm (PM <sub>2.5</sub> )			100.00%	99.90%
f. Other Pollutant (specify):					
PARTI	- Poord L				
Part D identifies any existing or propin the permit.	D: Monitoring, Record & cosed monitoring, record	keeping, & resting keeping, & testing	ng Procedures g procedures tha	at may need to b	e included
27. Item(s) Monitored:					
28. Monitoring Frequency:					
29. Item(s) Recorded:					
30. Record Keeping Frequency:					
31. Pollutant(s) Tested:					
32. Test Method(s):					
33. Testing Frequency:					
	PAST Ex Proventiv				
Part E verifies that a complete Preve applicable. Use this table as a chec	PART E: Preventive entive Maintenance Plan klist to ensure that the Plan	(PMP) has been r	lan prepared for the	control device, i	f
34. Do you have a Preventive Main		WE 18 COMPLETE.			
	Yes – the following items	are identified on	tha DMD.		· · · · · · · · · · · · · · · · · · ·
	vidual(s) responsible for inspect				
_	or conditions that will be inspec		ерапиу списос	Offici devices.	
C Schedule for inspection	of items of continuous describe	d above.			
C. Schedule for inspection	The state of the s		: -		
	fication of the replacement part			juick replacement.	
D. Identification and quanti	PART F: Determination	on of Integral Co	ntrol		
D. Identification and quanti  Part F provides explanation to detern	PART F: Determination	on of Integral Co device should be	ntrol considered inte		SS.
D. Identification and quanti Part F provides explanation to determ  35. Has IDEM already made an inte If "Yes", provide the following:	PART F: Determination	on of Integral Co device should be	ntrol considered integ		
D. Identification and quanti Part F provides explanation to determ 35. Has IDEM already made an inte If "Yes", provide the following: Permit Number:	PART F: Determination mine whether the control egral control determination is under the control determination is under th	on of Integral Condevice should be ation for this devi	ntrol considered integ ice?	gral to the proce	
D. Identification and quanti  Part F provides explanation to deterr  35. Has IDEM already made an into If "Yes", provide the following:  Permit Number:  36. Is this device integral to the provide the reason(s) with the provide the pro	PART F: Determination in the whether the control egral control determination is under the control determination is under the control determination is under the device is integral.	on of Integral Condevice should be ation for this devi	ntrol considered integ ice?  mination:	gral to the proce	es
D. Identification and quanti Part F provides explanation to determ 35. Has IDEM already made an into If "Yes", provide the following: Permit Number: 36. Is this device integral to the pr	PART F: Determination in the whether the control egral control determination is under the control determination is under the control determination is under the device is integral.	on of Integral Condevice should be ation for this devi	ntrol considered integ ice?  mination:	gral to the proce	es
D. Identification and quanti  Part F provides explanation to deterr  35. Has IDEM already made an into If "Yes", provide the following:  Permit Number:  36. Is this device integral to the provide the reason(s) with the provide the pro	PART F: Determination in the whether the control egral control determination is under the control determination is under the control determination is under the device is integral.	on of Integral Condevice should be ation for this devi	ntrol considered integ ice?  mination:	gral to the proce	es



# OAQ CONTROL EQUIPMENT APPLICATION CE-02: Particulate Control – Baghouse / Fabric Filter State Form 51953 (R2 / 1-10)

State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.iN.gov/idem

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
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  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

PART A: Identification and Des			непц						
Part A identifies the particulate control device and describes its physical properties.									
1. Control Equipment ID: RMBV2									
2. Installation Date: 2019									
3. Bags or Cartridges? 🖂 Bags 🗌 Cartridges									
4. Filter Material: POLYESTER									
5. Number of Bags/Cartridges per Compartment: 24	5. Number of Bags/Cartridges per Compartment: 24								
5. Number of Compartments: 1									
7. Mode of Operation: Intermitte	nt 🗌 Periodic	: 🔀 Con	tinuous						
B. Cleaning Method: ☐ Shaking ☐ Reverse Pulse ☐ Reverse Air ☒ Jet Pulse									
9. Cleaning Cycle / Frequency (specify units): TBD									
10. Is a bag leak detector installed on this device?	Yes 🛛 No								
11. Type / Description of Bag Leak Detector:	Positive Press	sure 🔲 N	egative Pressi	ure					
<b>12.</b> Air to Cloth Ratio (Ex: 1.3 : 1.0): 4.0 : 1.0									
13. Is Lime Injection used on this device? ☐ Yes ☑ 1	lo								
14. Is Carbon Injection used on this device? ☐ Yes ☐ I	lo								
PART B: Operational parameters of the control devices the operational parameters of the control devices.	onal Paramete	lis lutant laden	nas stream A	Appropriate units					
must be included if the standard units are not used. For each	applicable par	ameter, pro	ide the inlet a	nd outlet values or					
provide the differential value.		1							
	A. Units	B. Inlet	C. Outlet	D. Differential					
15. Gas Stream Flow Rate	ACFM	3145.00	3145.00						
16. Gas Stream Temperature	°F	77.00	77.00						
17. Gas Stream Pressure inches of water to									
18. Moisture Content	18 Moisture Content % 0.00% 0.00%								
19. Particle Size Range	micrometers	45.00	45.00	to					
20. Lime Injection Rate (if applicable)	lb/hr								
21. Carbon Injection Rate (if applicable)	lb/hr								
22. Other (specify):									

			Concentration:			
Part C provides the pollutant concen						
		23. Units	24. Inlet	25. Outlet	26. Efficiency	v (%):
					Capture	Control
a. Lead (Pb)						
b. Hazardous Air Pollutant (HA	AP) (specify):					
					100.00%	99.90%
d. Particulate Matter less than 10					100.00%	99.90%
e. Particulate Matter less than 2.	5μm (PM <sub>2.5</sub> )				100.00%	99.90%
f. Other Pollutant (specify):						
PART D	· Monitoring	Record Kee	ning & Testir	ng Procedures		
Part D identifies any existing or propo in the permit.	osed monitorin	ıg, record kee	ping, & testing	procedures the	at may need to b	pe included
27. Item(s) Monitored:		Addition				
28. Monitoring Frequency:						
29. Item(s) Recorded:						
30. Record Keeping Frequency:						
31. Poliutant(s) Tested:						
32. Test Method(s):						
33. Testing Frequency:						
Part E verifies that a complete Prever	PART E: P	reventive Ma	aintenance Pl	an prepared for the	control device	:t
applicable. Use this table as a check	list to ensure t	hat the PMP	is complete.	Acpaica for the	CONTROL GEVICE,	
34. Do you have a Preventive Main	tenance Plan	(PMP)?				
No PMP is needed.  ☐ Yell	es – the follow	<i>i</i> ing items are	e identified on t	the PMP:		
A. Identification of the individ	dual(s) responsibl	le for inspecting,	maintaining and n	epairing emission c	ontrol devices.	
B. Description of the items of	or conditions that v	will be inspected.				
C. Schedule for inspection o	of items or conditic	ons described ab	ove.			
D. Identification and quantific	cation of the repla	scement parts the	at will be maintain	ed in inventory for q	uick replacement.	
	PART F: Det	ermination o	of Integral Cor	ntrol		
Part F provides explanation to determ					gral to the proce	ess.
35. Has IDEM already made an inte				ica?	No 🗆 Y	
Permit Number:	Issuance Da	ıte:	Detern	mination:	Integral	lot integral
36. Is this device integral to the pro If "Yes", provide the reason(s) why		integral.	☐ No	⊠ Yes		
This device will be used for materi	ial recovery, a	nd therefore if	t will be integra	al to the process	s.	
			-	•		



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

PART A: Identification and Desc			nent					
Part A identifies the particulate control device and describes its physical properties.								
1. Control Equipment ID: RMBV3								
2. Installation Date: 2019								
3. Bags or Cartridges? 🖂 Bags 🗌 Cartridges								
4. Filter Material: POLYESTER								
5. Number of Bags/Cartridges per Compartment: 24								
6. Number of Compartments: 1	5. Number of Compartments:							
7. Mode of Operation: Intermitten	t 🗌 Periodic	⊠ Con	tinuous					
8. Cleaning Method: Shaking	B. Cleaning Method: ☐ Shaking ☐ Reverse Pulse ☐ Reverse Air ☒ Jet Pulse							
9. Cleaning Cycle / Frequency (specify units): TBD								
10. Is a bag leak detector installed on this device?	Yes ⊠ No							
11. Type / Description of Bag Leak Detector:	Positive Press	sure 🗌 No	egative Press	ure				
12. Air to Cloth Ratio (Ex: 1.3: 1.0): 4.0:1								
13. Is Lime Injection used on this device? ☐ Yes ☒ No	)							
14. Is Carbon Injection used on this device? ☐ Yes ☒ No	)							
PART B: Operation  Part B provides the operational parameters of the control device	nal Paramete	rs lutant laden i	nae etream 4	Appropriate units				
must be included if the standard units are not used. For each	applicable par	ameter, prov	ide the inlet a	and outlet values or				
provide the differential value.	3							
	A. Units	B. Inlet	C. Outlet	D. Differential				
15. Gas Stream Flow Rate	ACFM	3145.00	3145.00					
16. Gas Stream Temperature	°F	77.00	77.00					
17. Gas Stream Pressure inches of water to								
18. Moisture Content	%	0.00%	0.00%					
19. Particle Size Range	micrometers	45.00	45.00	to				
20. Lime Injection Rate (if applicable)	lb/hr							
21. Carbon Injection Rate (if applicable)	lb/hr							
22. Other (specify):								

			Concentration			
Part C provides the pollutant concen						
		23. Units	24. Inlet	25. Outlet	26. Efficiency	<i>i (%</i> ):
					Capture	Control
a. Lead (Pb) b. Hazardous Air Pollutant (HA	* F3\					
× ·	AP) (specity).					
C. Particulate Matter (PM)					100.00%	99.90%
d. Particulate Matter less than 16					100.00%	99.90%
e. Particulate Matter less than 2.	.5μm (PM <sub>2.5</sub> )				100.00%	99.90%
f. Other Pollutant (specify):						
PART D Part D identifies any existing or proportion the permit.	: Monitoring, osed monitorin	Record Kee	ping, & Testir ping, & testinç	ng Procedures g procedures tha	it may need to b	e included
27. Item(s) Monitored:						
28. Monitoring Frequency:						
29. Item(s) Recorded:						
30. Record Keeping Frequency:						
31. Pollutant(s) Tested:						
32. Test Method(s):						
33. Testing Frequency:						
	PART E: F	reventive M	aintenance PI	lan		
Part E verifies that a complete Prever applicable. Use this table as a check	ntive Maintena	ance Plan (PM	/IP) has been p	prepared for the	control device,	if
34. Do you have a Preventive Main			is complete.			
	es – the follow		identified on	the PMP		
A. Identification of the indivi					antrol daviage	
☐ <b>B.</b> Description of the items of				chaillig cinicator of	Altior devices.	
C. Schedule for inspection of						
D. Identification and quantifi				ned in inventory for q	uick replacement.	
			of Integral Cor			
Part F provides explanation to determ					gral to the proce	ess.
35. Has IDEM already made an inte If "Yes", provide the following:	gral control d	leterminatior	n for this devi	ice?	No 🗌 Y	es
Permit Number:	Issuance Da	ıte:	Deterr	mination:	Integral 🔲 N	lot Integral
36. Is this device integral to the pro- If "Yes", provide the reason(s) wh		s integral.	☐ No	⊠ Yes		
This device will be used for materi	ial recovery, a	nd therefore i	t will be integra	al to the process	<b>i</b> .	



State Form 51953 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

- The purpose of CE-02 is to identify all the parameters that describe the baghouse or fabric filter. This is a required form.
- Complete this form once for each baghouse or fabric filter (or once for each set of identical baghouses or fabric filters).
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for
  any one to inspect and photocopy.

PART A: Identification and Descri Part A identifies the particulate control device and describes its			ICHI.					
1. Control Equipment ID: RMVB4								
2. Installation Date: 2019								
3. Bags or Cartridges? ⊠ Bags ☐ Cartridges								
4. Filter Material: POLYESTER								
5. Number of Bags/Cartridges per Compartment: 24	5. Number of Bags/Cartridges per Compartment: 24							
6. Number of Compartments: 1								
7. Mode of Operation:	7. Mode of Operation:							
8. Cleaning Method: Shaking Reverse Pulse Reverse Air 🛛 Jet Pulse								
9. Cleaning Cycle / Frequency (specify units): TBD								
10. Is a bag leak detector installed on this device?	es 🗵 No							
	ositive Press	ure 🔲 Ne	egative Pressi	ure				
12. Air to Cloth Ratio (Ex: 1.3 : 1.0): 4.0 : 1.0								
13. Is Lime Injection used on this device? ☐ Yes ☐ No								
14. Is Carbon Injection used on this device? ☐ Yes ☒ No								
PART B: Operation  Part B provides the operational parameters of the control devices	al Paramete	rs utant laden d	gas stream. A	Appropriate units				
must be included if the standard units are not used. For each a	pplicable par	ameter, prov	ride the inlet a	nd outlet values or				
provide the differential value.								
	A. Units	B. Inlet	C. Outlet	D. Differential				
15. Gas Stream Flow Rate	ACFM	3145.00	3145.00					
16. Gas Stream Temperature	°F	77.00	77.00					
17. Gas Stream Pressure	inches of water			to				
18. Moisture Content	%	0.00%	0.00%					
19. Particle Size Range	micrometers	45.00	45.00	to				
20. Lime Injection Rate (if applicable)	lb/hr							
21. Carbon Injection Rate (if applicable)	lb/hr							
22. Other (specify):								

	PART C	: Pollutant	Concentration	ış			
Part C provides the pollutant concentration	ons of the	pollutant lad	en gas stream	•			
		23. Units	24. Inlet	25. Outlet	26. Efficiency	<i>i</i> (%):	
					Capture	Control	
a. Lead (Pb) b. Hazardous Air Pollutant (HAP)							
<u> </u>	(specity).						
☑ c. Particulate Matter (PM)					100.00%	99.90%	
M d. Particulate Matter less than 10μm					100.00%	99.90%	
<b>e.</b> Particulate Matter less than 2.5μm	(PM <sub>2.5</sub> )				100.00%	99.90%	
f. Other Pollutant (specify):							
Part D identifies any existing or proposed in the permit.  27. Item(s) Monitored:	onitoring, I monitorin	Record Kee	ping, & Testing eping, & testing	ng Procedures g procedures tha	at may need to b	e included	
28. Monitoring Frequency:							
29. Item(s) Recorded:							
30. Record Keeping Frequency:							
31. Poliutant(s) Tested:							
32. Test Method(s):							
33. Testing Frequency:							
Part E verifies that a complete Preventive applicable. Use this table as a checklist t	Maintena o ensure tl	ince Plan (PN hat the PMP	aintenance P MP) has been p is complete.	an prepared for the	control device, i	f	
34. Do you have a Preventive Maintena						···	
			e identified on t				
A. Identification of the individual(s				epairing emission or	entrol devices.		
B. Description of the items or con							
C. Schedule for inspection of item							
D. Identification and quantification	of the repla	cement parts th	at will be maintain	ed in inventory for q	uick replacement.		
			of Integral Co				
Part F provides explanation to determine					gral to the proce	SS.	
35. Has IDEM already made an integral If "Yes", provide the following:	control d	eterminatio	n for this devi	ce?	No 🗆 Y	ės	
Permit Number: Iss	uance Dat	te:	Deterr	nination: 🔲	Integral 🔲 N	ot Integral	
36. Is this device integral to the proces If "Yes", provide the reason(s) why the		integral.	☐ No	⊠ Yes			
This device will be used for material recovery, and therefore it will be integral to the process.							



# OAQ COMPLIANCE DETERMINATION APPLICATION CD-01: Emissions Unit Compliance Status

State Form 51861 (R / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.lN.gov/idem

#### NOTES:

- The purpose of CD-01 is to identify the requirements that apply to each emissions unit at the permitted source and to determine the compliance status of these emissions units.
- This is required form for each initial Title V permit application as well as each modification and every renewal.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any
  one to inspect and photocopy.

PART A: Identification of Source and Em	issions Unit
Part A identifies the source and the emissions unit. For the purposes of this site as a whole and NOT to individual emissions units.	form, the term "source" refers to the plant
1. Source Name: Kiln 1 and Kiln 2	2. Source ID: - TBD
3. Emissions Unit Description: Two Waelz Kilns (identical)	4. Unit ID: KLN1 and KLN2

#### PART B: Regulatory Compliance Status Part B identifies the regulatory requirements that apply to the emissions unit and to determine the compliance status of the emissions unit. These "regulatory requirements" are those required by federal, state, or local law. 10. In Compliance 9. Test 7. State / 8. Limitation 6. Description 5. Rule Method (y/n)**Local Only** Cite TBD **TBD** 40% (any 6-minute State **Opacity Regulations** 326 IAC period); 60% Article 5 (cumulative total of 15 minutes in a 6hour period) TBD **TBD** Process Weight Rule State 326 IAC Particulate Rules Article 6

PART C: Compliance Status – Ot		
Part C identifies any other requirements that apply to the emissions uemissions unit. These "other requirements" would not be required by	ınit and to determine the co r federal, state, or local law	ompliance status of the
11. Other Requirements	12. State / Local Only	13. In Compliance (y/n)
Throughput Limit - 360,000 ton per year (combined Kiln throughput)	N/A	TBD

Indiana Department Of Environmental Management Office Of Air Quality State Form 51861 (R / 3-06)

Emissions Unit Compliance Status FORM CD-01 Page 2 of 2



### OAQ COMPLIANCE DETERMINATION APPLICATION CD-01: Emissions Unit Compliance Status

State Form 51861 (R / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

site as a whole and NOT to individual emissions units.

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

#### NOTES:

- The purpose of CD-01 is to identify the requirements that apply to each emissions unit at the permitted source and to determine the
  compliance status of these emissions units.
- This is required form for each initial Title V permit application as well as each modification and every renewal.

PART A: Identification of Source and Emissions Unit

Part A identifies the source and the emissions unit. For the purposes of this form, the term "source" refers to the plant

- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any
  one to inspect and photocopy.

1. Source	Name: Feed Dryer			2. Source	<u>ip: – IRD</u>
3. Emissio	ons Unit Description:	Natural Gas Fired F	eed Dryer	4. Unit ID:	DRY1
			ory Compliance Status		
Part B identi	fies the regulatory requirens unit. These "regulatory	ments that apply to requirements" are t	the emissions unit and t hose required by federal	o determine the c , state, or local la	ompilance status of W.
5. Rule Cite	6. Description	7. State / Local Only	8. Limitation	9. Test Method	10. In Compliance (y/n)
326 IAC Article 5	Opacity Regulations	State	40% (any 6-minute period); 60% (cumulative total of 15 minutes in a 6-hour period)	TBD	TBD
326 IAC Article 6	Particulate Rules	State	Process Weight Rule	TBD	TBD
				417	

PART C: Compliance Status – Other Requirements							
Part C identifies any other requirements that apply to the emission emissions unit. These "other requirements" would not be required	ns unit and to determine the c d by federal, state, or local law	ompliance status of the /.					
	12. State / Local Only	13. In Compliance (y/n)					
The Ostion Royall Street, and the Street, and							
Part C identifies any other requirements that apply to the emissions unit and to determine the compliance state emissions unit. These "other requirements" would not be required by federal, state, or local law.  11. Other Requirements  12. State / Local Only  13. In Complex of the emissions unit and to determine the compliance state emissions unit. These "other requirements" would not be required by federal, state, or local law.							



## OAQ COMPLIANCE DETERMINATION APPLICATION CD-01: Emissions Unit Compliance Status

State Form 51861 (R / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

#### NOTES:

- The purpose of CD-01 is to identify the requirements that apply to each emissions unit at the permitted source and to determine the compliance status of these emissions units.
- This is required form for each initial Title V permit application as well as each modification and every renewal.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
  IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any
  one to inspect and photocopy.

Pai	PART A: Identification of Source and Emissions Unit  Part A identifies the source and the emissions unit. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.						
	Source Name:	EAF Receiving Carbon/Limes Pelletizing Bui EAF Hopper 1 Cone Pelletize Kiln 1 Transitio WIP Building,	g Building, tone Receiving Building,	2.	Source ID:	– TBD	
3.	Emissions Unit		Process/process building baghouses and bin vents; included altogether here because regulatory applicability is the same for all sources.	4.	Unit ID:	RB1 CB1 PB1 RM1 - RM4 CP1 - CP2 TB1 - TB2 WB1 FP1 - FP5	

5. Rule Cite	6. Description	7. State / Local Only	8. Limitation	9. Test Method	10. In Compliance (y/n)
326 IAC Article 5	Opacity Regulations	State	40% (any 6-minute period); 60% (cumulative total of 15 minutes in a 6- hour period)	TBD	TBD
326 IAC Article 6	Particulate Rules	State	Process Weight Rule	TBD	TBD

**PART B: Regulatory Compliance Status** 

LL Verren					
	PART	C: Compliance S	Status – Other Requirer	nents	
Part C identifie	s any other requirements				ance status of the

sions unit and to determine the c red by federal, state, or local law	ompliance status of the
12. State / Local Only	13. In Compliance (y/n)
	red by federal, state, or local law



### OAQ COMPLIANCE DETERMINATION APPLICATION CD-01: Emissions Unit Compliance Status

State Form 51861 (R / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

### NOTES:

- The purpose of CD-01 is to identify the requirements that apply to each emissions unit at the permitted source and to determine the compliance status of these emissions units.
- This is required form for each initial Title V permit application as well as each modification and every renewal.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Identification of Source and Emission	
Part A identifies the source and the emissions unit. For the purposes of this form, site as a whole and NOT to individual emissions units.	the term "source" refers to the plant
Source Name: Emergency Generator 1 and Emergency Generator 2	2. Source ID: - TBD
3. Emissions Unit Description: Two diesel-fired emergency generators	4. Unit ID: EG1, EG2

### **PART B: Regulatory Compliance Status** Part B identifies the regulatory requirements that apply to the emissions unit and to determine the compliance status of the emissions unit. These "regulatory requirements" are those required by federal, state, or local law. 9. Test 10. In Compliance 8. Limitation 7. State / 5. Rule 6. Description Method (y/n)Local Only Cite TBD **TBD** 40% (anv 6-minute 326 IAC **Opacity Regulations** State period); 60% Article 5 (cumulative total of 15 minutes in a 6hour period) TBD N/A Initial notification 40 CFR 63, Stationary Federal requirements of Reciprocating Internal Subpart §63.6645(f) Combustion Engines ZZZZ Emission standards N/A **TBD** Federal 40 CFR 60. Stationary for new nonroad CI Compression Ignition Subpart IIII engines in Table 1 to Internal Combustion §89.112(a) and the **Engines** opacity standards in §89.113 as required by §60.4205(b) and §60.4202(a)(2)

### PART C: Compliance Status - Other Requirements

Part C identifies any other requirements that apply to the emissions unit and to determine the compliance status of the emissions unit. These "other requirements" would not be required by federal, state, or local law.

Emissions Unit Compliance Status FORM CD-01 Page 2 of 2

11. Other Requirements	12. State / Local Only	13. In Compliance (y/n)



### OAQ COMPLIANCE DETERMINATION APPLICATION CD-02: Compliance Plan Requirements Per Applicable Requirement

State Form 51862 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

### NOTES:

- The purpose of CD-02 is to identify existing compliance monitoring activities (monitoring, testing, record keeping and/or reporting)
  required in an applicable requirement or to provide compliance monitoring activities for applicable requirements where there is no or
  inadequate compliance monitoring requirements.
- CD-02 focuses on generally applicable requirements that apply to many or all emission units at the source.
- . This is required form for each initial Title V permit application as well as each modification and every renewal.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC
  17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one
  to inspect and photocopy.

	PAR	T A: Identification of Source and Applical	ble Requirement
Pa	n A identifies the source and moses of this form, the term "	the applicable requirement. Use one form form form form form form form form	nd NOT to individual emissions units.
Pui			
1.	Source Name: Kiln 1 and	Kiln 2	2. Source ID: — TBD
3.	Applicable Requirement:	Throughput Limit - 360,000 ton per year (c	ombined Kiln throughput)
4.	Rule Cite:	N/A	
5.		ational and/or emission limit specified in the	applicable requirement.
· ·	-	on per year (combined Kiln throughput)	
	Throughput Limit - 300,000	on per year (combined Kim timodgripat)	
6.		de a description of the reporting schedule to en the reports will be submitted.	be used. The schedule should include what
		will indicate combined kiln throughput totals	for the current 12-month rolling period.
	Comamba The Troporte	Will indicate complimed that throughput to the	,

nt Of Environmental Management	ı	
Department Of Environm	Ξ	m 51862 (R2 / 1-10)
Indiana D	Office Of Air Qua	State Form 5

	T	T	7		1	1	_	 7	1	1		.,	<del></del>	,	,	_	1	1	,	·		_
	16. Testing Frequency	N/A																				
	15. Test Method	N/A																				
	14. Pollutants tested	N/A								A CANADA A C						***************************************						
nents	13. Record Keeping Frequency	Daily	A. M. A. A. M. M. A.		Total Control of the		**************************************								A STATE OF THE STA	10 TO THE RESERVE THE THE THE THE THE THE THE THE THE TH						
PART B: Compliance Plan Components npliance plan.	12. Item Recorded	Combined kiln throughput (tons)		A STATE OF THE PARTY OF THE PAR	TVIA.																	
ART B: Complia liance plan.	oring ancy	Daily																				
P. ach required comp	10. Parameters Monitored	Throughput																				
PART B: Co Part B identifies the main components of each required compliance plan.	9. Control Equipment	PC1, PC2																				
ntifies the main	8. Stack / Vent ID	PC1, PC2									The state of the s											
Part B ider	7. Unit ID	KLN1, KLN2																				

Compliance Plan R<sup>2</sup> "Tements CD-02



### OAQ COMPLIANCE DETERMINATION APPLICATION CD-02: Compliance Plan Requirements Per Applicable Requirement

State Form 51862 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch
100 N. Senate Avenue, MC 61-53 Room 1003
Indianapolis, IN 46204-2251
Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.lN.gov/idem

### NOTES:

- The purpose of CD-02 is to identify existing compliance monitoring activities (monitoring, testing, record keeping and/or reporting)
  required in an applicable requirement or to provide compliance monitoring activities for applicable requirements where there is no or
  inadequate compliance monitoring requirements.
- CD-02 focuses on generally applicable requirements that apply to many or all emission units at the source.
- This is required form for each initial Title V permit application as well as each modification and every renewal.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC
  17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one
  to inspect and photocopy.

	PAR	T A: Identification of Source and Applica	hle R	leguirement	
Pa	rt A identifies the source and	the applicable requirement. Use one form f	or ea	ch applicable requi	rement. For the
pu	rposes of this form, the term "	source" refers to the plant site as a whole a	nd NO	OT to individual em	issions units.
1.	Source Name: All Source	es/Facility-Wide	2.	Source ID:	– TBD
3.	Applicable Requirement:	Opacity Regulations			
4.	Rule Cite:	326 IAC Article 5			
5.	Limitations: List each opera	ational and/or emission limit specified in the	appli	cable requirement.	
	40% (any 6-minute period)				
	60% (cumulative total of 15 i	minutes in a 6-hour period)			
6.	Reporting Schedule: Provide will be reported and how offer	de a description of the reporting schedule to en the reports will be submitted.	be u	sed. The schedule	should include what
	Semiannual Title V Reports v reconcile any exceedance ev	will indicate any exceedances of the opacity	limit,	as well as correcti	ve actions taken to
	recording any exceedance en	rents.			

Indiana tment Of Environmental Management Office C vuality State Form 51862 (R2 / 1-10)

			PA	ART B: Complia	PART B: Compliance Plan Components	nents			
Part Bide	intifies the mail	Part B identifies the main components of each required cor	ach required compl	mpliance plan.	-				
7. Unit ID	8. Stack / Vent ID	9. Control Equipment	10. Parameters Monitored	11. Monitoring Frequency	12. Item Recorded	13. Record Keeping Frequency	14. Pollutants tested	15. Test Method	16. Testing Frequency
KLN1	PC1	PC2	Opacity	TBD	Opacity Reading	ТВD	N/A	Method 9	TBD
KLN2	PC2	PC2	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
RB1	RBBH1	RBBH1	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
CB1	СВВН1	CBBH1	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
PB1	PBBH1, PBBH2	PBBH1, PBBH2	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
RM1	RMBV1	RMBV1	Opacity	TBD	Opacity Reading	ТВD	N/A	Method 9	TBD
RM2	RMBV2	RMBV2	Opacity	TBD	Opacity Reading	ТВО	N/A	Method 9	
RM3	RMBV3	RMBV3	Opacity	TBD	Opacity Reading	ТВD	N/A	Method 9	ТВD
RM4	RMBV4	RMBV4	Opacity	ТВD	Opacity Reading	TBD	N/A	Method 9	TBD
CP1	PBBH1	PBBH1	Opacity	TBD	Opacity Reading	ТВD	N/A	Method 9	TBD
CP2	PBBH2	PBBH2	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
DRY1	PBBH2	PBBH2	Opacity	TBD	Opacity Reading	ТВD	N/A	Method 9	TBD
TB1	TBBH1	TBBH1	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
TB2	TBBH2	ТВВН2	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
WB1	TBBH1, TBBH2	TBBH1, TBBH2	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
FP1	FPBV1	FPBV1	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	<b>TBD</b>
FP2	FPBV2	FPBV2	Opacity	ТВD	Opacity Reading	TBD	N/A	Method 9	TBD
FP3	FPBV3	FPBV3	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	TBD
FP4	FPBV4	FPBV4	Opacity	TBD	Opacity Reading	TBD	N/A	Method 9	ТВD

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY State Form XXXXX (8-04)

	1		1	1
TBD	TBD	TBD		
Method 9	Method 9	Method 9		
N/A	N/A	N/A		
TBD	TBD	TBD		ANALAMA ANALAMA NY TENY NY TRY NY NY TRY NY TRY NY TRY NY NY TRY NY NY TRY NY NY TRY NY NY NY TRY NY
		Opacity Reading		
TBD C	TBD	TBD C		
<u> </u>	<u> </u>	-		
Opacity	Opacity	Opacity		
FPBV5	N/A	N/A		
FPBV5	N/A	N/A		
FP5	EG1	EG2		



### OAQ COMPLIANCE DETERMINATION APPLICATION CD-02: Compliance Plan Requirements Per Applicable Requirement

State Form 51862 (R2 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749

www.IN.gov/idem

### NOTES:

- The purpose of CD-02 is to identify existing compliance monitoring activities (monitoring, testing, record keeping and/or reporting) required in an applicable requirement or to provide compliance monitoring activities for applicable requirements where there is no or inadequate compliance monitoring requirements.
- CD-02 focuses on generally applicable requirements that apply to many or all emission units at the source.
- This is required form for each initial Title V permit application as well as each modification and every renewal.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

### PART A: Identification of Source and Applicable Requirement

Part A identifies the source and the applicable requirement. Use one form for each applicable requirement. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

1. Source Name:

All Sources/Facility-Wide

2. Source ID:

– TBD

3. Applicable Requirement: Particulate Rules

Rule Cite:

326 IAC Article 6

Limitations: List each operational and/or emission limit specified in the applicable requirement.

Process Weight Rule; The following equations are used to determine the PM emission limits for WSP's manufacturing processes:

E=4.10×P^0.67;for P<30

E=55.0×P^0.11-40; for 30≤P

### where:

E = Pounds of PM emitted per hour (lb/hr)

P = Process weight rate (tons/hr)

The WSP facility will comply with this rule through the use of baghouses and bin vent filters.

6. Reporting Schedule: Provide a description of the reporting schedule to be used. The schedule should include what will be reported and how often the reports will be submitted.

Semiannual Title V Reports will indicate any exceedances of the PM limit, as well as corrective actions taken to reconcile any exceedance events.

			ď	ART B: Complia	PART B: Compliance Plan Components	nents			
Part B ide	ntifies the mail	Part B identifies the main components of each required	8	compliance plan.					
7. Unit ID	8. Stack / Vent ID	9. Control Equipment	10. Parameters Monitored	11. Monitoring Frequency	12, Item Recorded	13. Record Keeping Frequency	14. Pollutants tested	15. Test Method	16. Testing Frequency
KLN1	PC1	PC2	PM	N/A	Will comply with this rule through the use of baghouses and bin vent filters.	N/A	N/A	N/A	N/A
KLN2	PC2	PC2	PM	N/A	Will comply with this rule through the use of baghouses and bin vent filters.	N/A	N/A	N/A	N/A
RB1	RBBH1	RBBH1	PM	N/A	Will comply with this rule through the use of baghouses and bin vent filters.	ΝΆ	A/A	N/A	N/A
CB1	СВВН1	СВВН1	PM	N/A	Will comply with this rule through the use of baghouses and bin vent filters.	NA	¥,X	N/A	N/A
P84	PBBH1,	PBBH1, PBBH2	PM	N/A	Will comply with this rule through the use of baghouses and bin vent filters.	N/A	N/A	A/A	N/A

INDIA' - PARTMENT OF ENVIRONMENTAL MANAGEMENT OFFIC. AIR QUALITY
State Form XXXXX (8-04)

			······································		····
N/A	N/A	N/A	N/A	∀/N	N/A
N/A	N/A	V/Ν	V/A	N/A	N/A
N/A	N/A	Y, V	N/A	N/A A	N/A
N/A	N/A	<b>Y</b> X	N/A	N/A	NA
Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.
N/A	N/A	N/A	N/A	N/A	N/A
PM	PM	Md	PM	Wd.	PM
RMBV1	RMBV2	RMBV3	RMBV4	PBBH1	PBBH2
RMBV1	RMBV2	RMBV3	RMBV4	PBBH1	PBBH2
RM1	RM2	RM3	RM4	CP1	CP2

	,				
A/A	N/A A	N/A	N/A	N/A	Α/Λ
N/A	A/N	N/A	N/A	N/A	N/A
N/A	N/A	∀/Z	N/A	N/A	N/A
N/A	N/A	Y/A	N/A	<b>∀</b> /Z	N/A
Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	nply s rule t the ses vent
N/A	N/A	N/A	N/A	A/A	A/A
			H1, H2 ,	V1	V2
				FPBV1 FPBV1	FPBV2 FPBV2
_					FP2

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JIRONMENTAL MANAGEMENT		
PARTMENT OF ENVIRONMENTAL	AIR QUALITY	1 XXXXX (8-04)
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K Z	<b>∀</b> Ż	₹ Ž		
N/A	N/A	V/A		
N/A	N/A	N/A		
N/A	V/V	N/A		
Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.	Will comply with this rule through the use of baghouses and bin vent filters.		
N/A	N/A	N/A		
MA.	ΡΜ	PM		
FPBV3	FPBV4	FPBV5		
FPBV3	FPBV4	FPBV5		
FP3	FP4	FP5		



### OAQ COMPLIANCE DETERMINATION APPLICATION CD-02: Compliance Plan Requirements Per Applicable Requirement

State Form 51862 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.lN.gov/idem

### NOTES:

- The purpose of CD-02 is to identify existing compliance monitoring activities (monitoring, testing, record keeping and/or reporting)
  required in an applicable requirement or to provide compliance monitoring activities for applicable requirements where there is no or
  inadequate compliance monitoring requirements.
- CD-02 focuses on generally applicable requirements that apply to many or all emission units at the source.
- This is required form for each initial Title V permit application as well as each modification and every renewal.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
  of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 iAC
  17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one
  to inspect and photocopy.

	DART A. Idovátí							
Pa	PART A: Identification of Source and Applicable Requirement  Part A identifies the source and the applicable requirement. Use one form for each applicable requirement. For the							
pui	urposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.							
1.	Source Name:	-	cy Generator 1 and	2.	Source ID:	– TBD		
	Emergen		cy Generator 2					
3.	Applicable Requ	uirement:	Emission standards for new nonroad CI er opacity standards in §89.113 as required by	igine by §6	es in Table 1 to § 30.4205(b) and §	89.112(a) and the 60.4202(a)(2)		
4.	Rule Cite:		40 CFR 60, Subpart IIII					
5.	Limitations: List	each opera	ational and/or emission limit specified in the	appl	icable requireme	ent.		
	hours per year fo ultra-low sulfur di will operate and r and will not chang	4205(b) and or the purpos iesel (15 par maintain the ge any emis	nonroad CI engines in Table 1 to §89.112(a §60.4202(a)(2). The emergency generators sees of maintenance and readiness checks [§ ts per million [ppm]) as required by §60.420 engines in accordance with the manufactur scions-related settings other than those that P will purchase certified engines as required	will 60.4 7(b) er's are	be operated for 4211(f)(2)]. Both and specified in emission-related permitted by the	no more than 100 engines will combust §80.510(b)(1)(i). WSP		
6.	Reporting Scheowill be reported a	dule: Provident of the how often designed the how often designed the how of t	le a description of the reporting schedule to in the reports will be submitted.	be u	used. The sched	ule should include what		
	N/A							

Indiana 'trnent Of Environmental Management Office C, Juality State Forn: 51862 (R2 / 1-10)

	16. Testing Frequency		N/A		N/A
	15. Test Method		N/A		AN A
	14. Pollutants tested		N/A		M/A
nents	13. Record Keeping Frequency		Per event		Per event
PART B: Compliance Plan Components npliance plan.	12. Item Recorded		Hours of operation, Type of operation (emergency, non-emergency)		Hours of operation, Type of operation (emergency, non-emergency)
ARI B: Complia liance plan.	11. Monitoring Frequency	N/A - engines will be certified	Per event	N/A - engines will be certified	Per event
PART B: Co	10. Parameters Monitored	Emissions	Hours of operation	Emissions	Hours of operation
n components of e	9. Control Equipment	N/A	N/A	N/A	N/A
ntifies the mail	8. Stack / Vent ID	N/A	N/A	N/A	YA.
Part B ide	7. Unit ID	EG1	EG1	EG2	EG2

			**************************************	
ALL				
		***************************************		A
				******



### OAQ COMPLIANCE DETERMINATION APPLICATION CD-04: Compliance Schedule and Certification

State Form 51864 (R2 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.IN.gov/idem

Source ID:

– TBD

### NOTES:

Source Name:

3

- The purpose of CD-04 is to provide a schedule of for compliance certification submittals, a certification of the source's compliance status with all applicable requirements, and a compliance schedule that details the measures a source will use to address non-
- Complete this form once per application (not once for each emissions unit) with respect to all applicable requirements at the source.
- This is required form for each initial Title V permit application as well as each modification and every renewal.

PART A: Source Identification and Compliance Schedule

Detailed instructions for this form are available on the Air Permit Application Forms website.

Part A identifies the permitted source and the permit term compliance certification schedule.

Waelz Sustainable Products, LLC

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

3.	Permit Term Compliance Certification Schedule		***************************************				
	Date of first certification submittal:	Frequency of future s	ubmittals:	Semiannually			
		***************************************					
4	PART B: Risk Mana	gement Plan					
Pa rec	Part B indicates whether sources subject to section 112(r), Accidental Release Prevention, are complying with the requirement to submit a Risk Management Plan (RMP).						
4.	4. Statement of Applicability / Non-Applicability: Indicate whether the source is subject to Section 112(r) and the requirement to submit and RMP.						
	Source is subject to Section 112(r) and a Risk Management Plan (RMP) is required.						
	Source is not subject to Section 112(r) and a Risk Management Plan (RMP) is not required.						
not	RMP Submittal Information: Indicate when the RMP was submitted to each of the following agencies. If the RMP has not yet been submitted to any of the listed agencies, indicate the date when the RMP will be mailed to that agency. If the RMP for IDEM is attached to this application, please write "attached" in the Date Submitted column.						
5.	Agency Name	6. Date Submitted	7. Expec	ted Submittal Date			
	Chemical Safety and Hazard Investigation Board (CSHIB)						
	United States Environmental Protection Agency (U.S. EPA)						
	Indiana Department of Environmental Management (IDEM)						
	Local Agency responsible for permitting:						
8.	EPA Facility Identifier: — —						

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Compliance Certification FORM CD-04

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	PART C: C	ertification of Source Co	mpliance Statu	S	
Part C state actions to be	s whether the source is or is not in taken in cases of noncompliance	n full compliance with all a e.	applicable requir	ements and to ide	ntify corrective
	he Most Accurate Statement.				
requ	source described in this air pollut irements and will continue to com	nply with those requireme	nts.		
☐ FOF	RM CD-01 includes new requirement.  The source will meet such rec	ents that apply or will app	ly to the emissio	ns unit during the	term of the
The requ	source described in this air pollut irrements, except for the emission edule identified below.	ion control permit applica	tion is fully in co	npliance with all a achieved accordi	applicable ng to the
10. Unit ID	11. Applicable Requirement	12. Corrective Action	13. Deadline	14. Progress R	eports
				Start Date	Frequency
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7.77411		***************************************			
15. Signatur	e of Responsible Official				
⊠ I cer	tify that, based on information information presented are to	on and belief formed rue, accurate and cor	after reasonal	ble inquiry, the	statements
Nigol Morris	an.	<b>.</b>			
<u>Nigel Morriso</u> Name <i>(tvped</i>		Presid	ent		

ed) Nufara

Signature

4/8/2019

Date



### OAQ FEDERAL RULE INCORPORATION APPLICATION FED-01: Summary of Federal Requirements – NSPS & NESHAP

State Form 53512 (R / 1-10)

Part A identifies the applicable standard and affected source.

### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53, Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.in.gov/idem

☐ Part 63 NESHAP (MACT)

### NOTES:

Type of Standard:

- The purpose of this form is to provide a standardized way for sources to identify the NSPS or NESHAP requirements that are applicable to the regulated source. Complete one (1) form for each federal rule that applies to the source. This is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

□ Part 60 NSPS

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record.

☐ Part 61 NESHAP

Part A: Identification of Applicable Standard

2.	Subpart Letter:	1111	
3.	Source Category Name:	Standards of Performance for Stationary Co Combustion Engines	ompression Ignition Internal
4.	Affected Source (Include all applicable emission unit IDs):	EG1 & EG2	
		Part B: Applicable Requirements	
Pai	rt B specifies the specific requiremen	its of the federal rule that are applicable to the	e process or emission unit.
5.	level. For example, if all of 40 CFR	y the section of the federal standard that is ap 63.342(c) is applicable, "40 CFR 63.342(c)" is applicable, then the appropriate citation is 40	is the appropriate citation. If only
<u> </u>	• 40 CFR 60.4202(a)(2)	•	•
	• 40 CFR 60.4205(b)	•	•
	• 40 CFR 60 4207(b)	•	•
	• 40 CFR 60.4211(f)(2)	•	•
	• 40 CFR 60.4211(a)(1) and (2)	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•

Part C: Po	Performance Testing Requirements
Part C identifies the performance testing require	rements that are applicable to the process or emission unit.
6. Performance Testing:	NA
7. Date of Initial Performance Test:	
8. Test Methods:	
Was the initial performance test approved by IDEM?	☐ Yes: Date approved: ☐ No
10. Did the initial performance test show compliance with the rule?	☐ Yes ☐ No: Date of next performance test:
	Part D: Important Dates
Part D identifies specific dates associated with t	the federal standard that are applicable to the process or emission unit.
11. Date Initial Notification was Submitted:	NA
12. Initial Compliance Date:	Startup: Other:
	Description: Date:
13. Other Dates	Description: Date:
	Description: Date:
· · · · · · · · · · · · · · · · · · ·	Part E: Other Information
Part E identifies any additional information pertal form GSD-09 as necessary.	aining to the applicable federal rule. Attach additional information using
ionii Gob-ue as necessary.	



### OAQ FEDERAL RULE INCORPORATION APPLICATION FED-01: Summary of Federal Requirements – NSPS & NESHAP

State Form 53512 (R / 1-10)

Part A identifies the applicable standard and affected source.

### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM - Office of Air Quality - Permits Branch

100 N. Senate Avenue, MC 61-53, Room 1003 Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) Facsimile Number: (317) 232-6749 www.in.gov/idem

☑ Part 63 NESHAP (MACT)

### NOTES:

Type of Standard:

- The purpose of this form is to provide a standardized way for sources to identify the NSPS or NESHAP requirements that are applicable to the regulated source. Complete one (1) form for each federal rule that applies to the source. This is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

☐ Part 60 NSPS

All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims
of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326
IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record.

☐ Part 61 NESHAP

Part A: Identification of Applicable Standard

2.	Subpart Letter:	7777				
3.	Source Category Name:	National Emissions Standards for Hazardou Reciprocating Internal Combustion Engines	s Air Pollutants for Stationary			
4.	Affected Source (Include all applicable emission unit IDs):	EG1 & EG2				
		Part B: Applicable Requirements				
Pa	rt B specifies the specific requiremen	its of the federal rule that are applicable to the	process or emission unit.			
5.	5. Applicable Requirements: Identify the section of the federal standard that is applicable at the lowest subsection level. For example, if all of 40 CFR 63.342(c) is applicable, "40 CFR 63.342(c)" is the appropriate citation. If only paragraph 2 of 40 CFR 63.342(c) is applicable, then the appropriate citation is 40 CFR 63.342(c)(2).					
	•	•	•			
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	•	•	•			
	•	•	•			
	•	•	•			
	•	•	•			
	•	•	•			

Part C: P	Performance Testing Requirements
Part C identifies the performance testing require	rements that are applicable to the process or emission unit.
6. Performance Testing:	NA
7. Date of Initial Performance Test:	
8. Test Methods:	
Was the initial performance test approved by IDEM?	☐ Yes: <i>Date approved:</i> No
10. Did the initial performance test show compliance with the rule?	Yes
	Part D: Important Dates
Part D identifies specific dates associated with t	the federal standard that are applicable to the process or emission unit.
11. Date Initial Notification was Submitted:	NA
12. Initial Compliance Date:	☐ Startup: Other:
	Description: Date:
13. Other Dates	Description: Date:
	Description: Date:
	Part E: Other Information
Part E identifies any additional information perta	taining to the applicable federal rule. Attach additional information using
form GSD-09 as necessary.	
	•

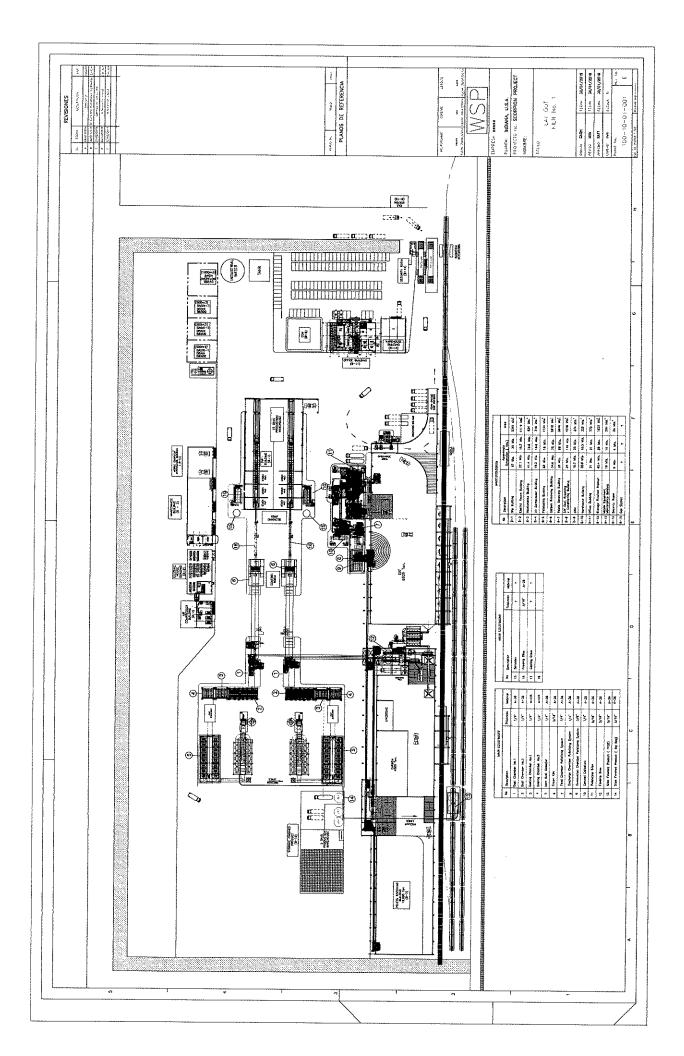
	New	Source	Construction	Title V	Permit	Application
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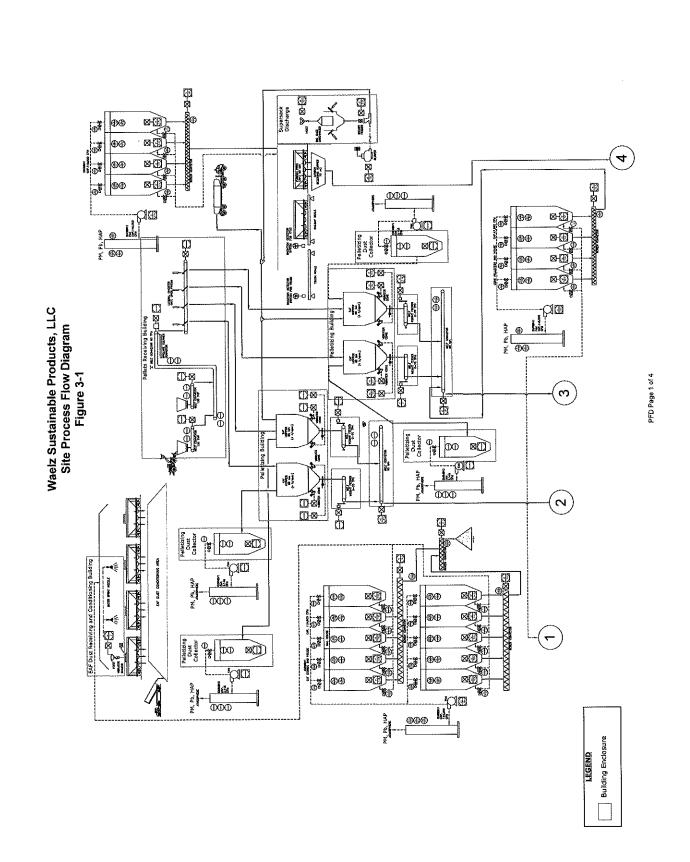
APPENDIX B SITE LOCATION MAP, LAYOUT DIAGRAM, AND PROCESS FLOW DIAGRAM

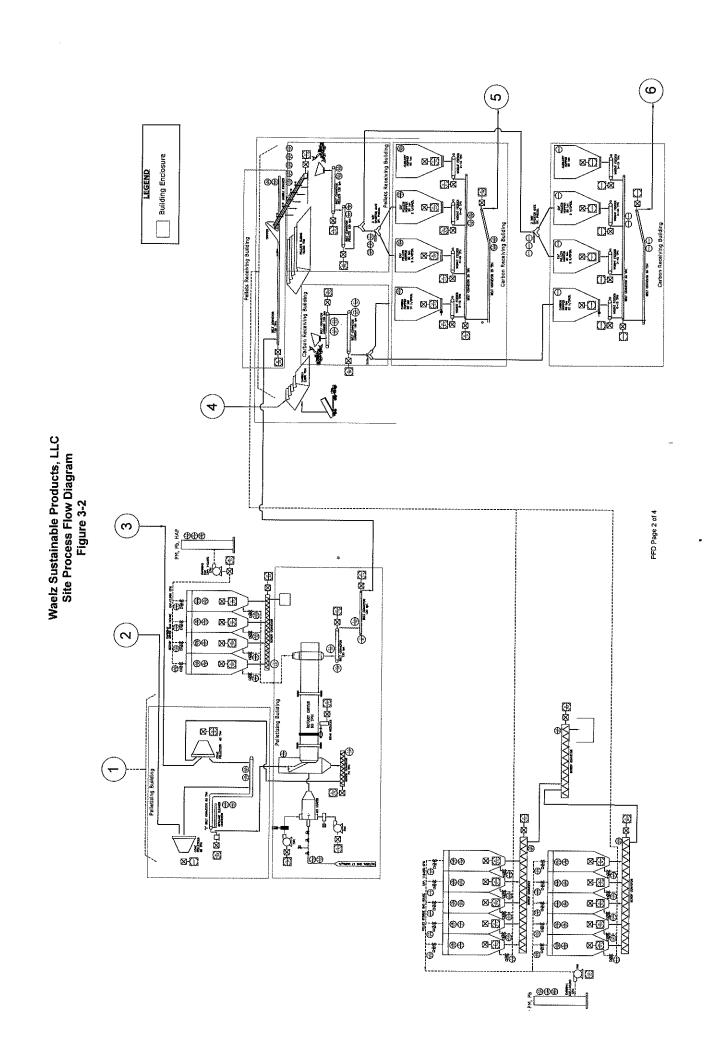


SITE LOCATION MAP
WAELZ SUSTAINABLE PRODUCTS, LLC
5401 WEST KILGORE AVENUE
MUNCIE, INDIANA

Figure 1







CD, NOX, PM, SD2, VGC, Pb, HAP @consequence 2333 (E) (w) (E) ®∰)¢ Ø (II) Ø ŒĐ Φ⊕ CAP, 225,000 CFM **3** 9 80 P 80 P **O ®** D F MATE OF THE PARTY B(B) **T** NA TO THE PARTY OF D D 6 2 **®** ⊕⊕ **D(** ⊕ <u>¥</u> 80 Z **BB** 30.8 **Đ**Đ o i ⊕⊕ **D** ⊕ § ⊕⊕ **BB** e f **®** Ф. Ф. 8 H 8 **® D(** ⊕ ¥ **BB O**O 100 C **(D)** Œ A Sa changanga S 90 EQ 긥 (C) 日本女の (∓) ⊗ # 6 6 6 mm **@@0** SETTLING CHAMBER ransition Building Đ (T) **@**0 . • SETTLING CHAMBER 3 **O** WAELZ KILN No. 1 49,600 Lb/Hr SETTLING CHAMBER 2 EO. Œ Ø ∰⊕⊕ Œ Š 552 Ø (S)

Waelz Sustainable Products, LLC

Site Process Flow Diagram

Figure 3-3

PFD Page 3 of 4

Building Enclosure

0000 (00) 80 P ΦФ ФΦ CAP. 225,000 CFM Φ<u>\$</u> Φ# ФΦ ወወ D F ₽₩₩ 800 THE TAP HAP ΦΦ ΦΦ Φ¥ Φ¥ Finished Product Building ФΦ MI) ΦФ O. Οž 800 ФФ ФФ 0 8 Œ. M 100 (H) ΦΦ ФΦ Φ# ΦФ ΦΦ Φ# A WALL ΦŒ ФФ **⊕** 9 ФΦ Φ ФΦ ФФ 1 Assessed R O O i do Balle Balle Hear exemples Balle Bares Acceptance | March 0 0 00 0 00 00 oo Da 日本本日 **BOO** SEFFLING CHAMBER 4 Transition Building ...... 1899 1890 **BB** Φ SETTLING CHANGER 3 ģ: ## of the state of WAELZ KILN No. 2 49,500 Lb/Hr œb, Ø **Building Enclosure** LEGEND **OD** (T) Š Φ & (တ)

Waelz Sustainable Products, LLC

Site Process Flow Diagram Figure 3-4

PFD Page 4 of 4

APPENDIX C
DETAILED EMISSIONS CALCULATIONS

Table C-1 - Facility-Wide antial Emissions Summary Waelz Sustainable Products, LLC - Muncie, Indiana

## Facility-Wide Potential Hourly Emissions

				Pote	Potential Hourly Emissions (lb/hr)	Emissions (I	b/hr)			
Source	8	×oN	PM²	$PM_{10}^2$	PM <sub>2.5</sub>	SO <sub>2</sub>	NOC	Ьb	Total HAP	cO <sub>2</sub> e
Waelz Kilns	46.62	29.76		14.76		5.21	4.46	0.17	0.79	113,496
Baghouses and Bin Vents	-	,		24.40		ł	-	0.07	0.24	•
Feed Dryer Burner <sup>1</sup>	1,40	1.67		74.T3		0.01	0.09		0.03	1,991
Emergency Generators	22.00	96.00		2.80		1.62	2.82	2.52E-04	0.05	4,581
Insignificant Activities	0.14	0.16		0.01		9.80E-04	9.22E-03	8.17E-07	0.03	195.09
Roadways	-	-	12.09	2.42	0.59	,	1	ŧ	-	1
Total Potential Emissions	70.16	127.59	53.79	44.12	42.29	6.84	7.38	0.24	1.13	120,263

1. The products of combustion from the feed dryer burner are emitted through baghouse PBBH2.

2.  $\text{PM/PM}_{10}/\text{PM}_{2.5}$  emissions represent total PM emissions.

racility-wide Potential Amuai cinissons										
				Pot	ential Annua	Potential Annual Emissions (tpy)	tpy)			
Source	8	NOx	PIM <sup>2</sup>	PM <sub>10</sub> ²	PM <sub>2.5</sub>	502	VOC	₽b³	Total HAP	CO <sub>2</sub> e
Waelz Kilns	169.20	108.00		53.56		18.90	16.20	69'0	3.12	417,985
Baghouses and Bin Vents	1	1		00.104		-	-	06.0	1.03	,
Feed Dryer Burner <sup>1</sup>	6.13	7.30		105.68		0.04	0.40	0.30	0.14	8,719
Emergency Generators	5.50	24.00		0.70		0.40	0.71	6.30E-05	0.01	1,145
Insignificant Activities	0.60	0.72		0.05		4.29E-03	0.04	3.58E-06	0.12	854.47
Roadways	-	-	16.02	3.20	0.79	-	-	,	-	ŧ
Total Potential Emissions	181.43	140.02	176.02	163.20	160.78	19.35	17.35	0.93	4.42	428,704
Total Potential Emissions (Excluding Fugitives)	181.43	140.02	160.00	160.00	160.00	19.35	17.35	0.93	4.42	428,704
PSD Major Source Threshold	250	250	250	250	250	250	250	250	N/A	N/A
Above PSD Major Source Threshold?	N <sub>o</sub>	No	No	No	No	No	No	No	N/A	N/A

1. The products of combustion from the feed dryer burner are emitted through baghouse PBBH2.

2. PM/PM<sub>10</sub>/PM<sub>15</sub> emissions represent total PM emissions.
3. The facility is requesting a facility-wide PTE limit for Pb of 0.5 tpy. WSP proposes to demonstrate compliance with the facility-wide Pb limit via source testing of the kilns and feed dryer, as well as recordkeeping for material throughput of the applicable equipment.

### Waelz Kilns Operations Data

Kin 1 Throughout Capacity	24.8	24.8 tons/hr <sup>1</sup>
Anada andran	180,000 tons/yr <sup>1</sup>	tons/yr
Kiln 2 Throughout Canadity	24.8	24.8 tons/hr <sup>1</sup>
copacity	180,000 tons/yr	tons/yr1
20 - 11/4 Land to all 1/4 and anti-constitution of all 1/4 and	49.6	49.6 tons/hr1
complied impugiput Capacity for Nim 4 and Nim 2	360,000 tons/vr	tons/vr <sup>1</sup>
Potential Annual Hours of Operation	8,760 hrs/yr	hrs/yr

1. Combined throughputs for Waelz Kilns based on information provided by Waelz Sustainable Products.

2. The facility is requesting a combined kiin throughput limit of 360000 tons/yr.

# Potential Criteria Pollutant Emissions from Waelz Kilns

Pollutant	Emission Factor (lb/ton) <sup>1</sup>	Potential Hourly Emissions (lb/hr)	Potential Annual Emissions (tpy)
00	0.94	46.62	169.20
NO <sub>x</sub>	09:0	29.76	108.00
PM/PM <sub>10</sub> /PM <sub>2.5</sub> Filterable	0.20	9.84	35.71
PM/PM <sub>10</sub> /PM <sub>2.5</sub> Condensable <sup>3</sup>	0.10	4.92	17.85
Total PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.30	14.76	53.56
SO <sub>2</sub>	0.11	5.21	18.90
VOC²	0.09	4.46	16.20

1. Emission factors for all pollutants except PM Condensable are based on maximum emissions rate from stack testing conducted at a similar facility between 2009 and 2018. All emission factors include a 50% contingency factor, except for the maximum CO emission rate which was considered to already represent the maximum potential to emit scenario.

2. Conservatively assumed VOC=THC.

3. PM Condensable emission factor conservatively assumes that PM condensable = 50% of PM filterable.

## ant Emissions From Waelz Kilns Table C-2 - Potential Criteria F

Waelz Sustainable Products, LLC - Muncie, Indiana

Potential GHG Emissions from Zinc Production in Waelz Kilns

366,696	101,787	Total CO <sub>2</sub> Emissions (Zinc Production) 101,787 366,696	otal CO <sub>2</sub> Emissi	To	-			
183,348	50,893	100%	41,004	5.7	2%	180,000	24.8	PC2
50,893 183,348	50,893	100%	41,004	5.7	2%	180,000	24.8	PC1
tpy	lb/hr	Ivaceitai	tons/yr	tons/hr	EAT DUST	tons/yr	tons/hr	
CO <sub>2</sub> Potential Emissions from Zinc Production <sup>3</sup>	CO <sub>2</sub> Po Emissio Zinc Pro	Max. Carbon Content of Carbonaceous	Potential Carbonaceous Material Throughput <sup>1</sup>	Potential C Material 1	Max. Carbon Content of	AF Dust iput¹	Potential EAF Dust Throughput <sup>1</sup>	Kiln

1. Combined throughput for both Waelz Kilns.

2. Conservative estimates based on historical site-specific analyses from the Millport, Alabama facility.

3. Per Equation GG-1 in 40 CFR 98 Subpart GG:

 $E_{CO2} = 44/12 * [(Zinc) * (C_{zinc}) + (Carbon) * (C_{carbon})]$ 

44/12 = Ratio of CO<sub>2</sub> and C molecular weights  $E_{CO2} = CO_2$  process emissions from the kilns

(Zinc) = Mass of zinc-bearing material (EAF dust) charged to the kilns

 $(C_{zinc})$  = Carbon content of zinc-bearing material

(Carbon) = Mass of carbonaceous material (e.g., metallurgical coke breeze, anthracite, petroleum coke) charged to the kilns

 $(C_{\text{carbon}}) \approx \text{Carbon content of carbonaceous material}$ 

Dotantial GHG Emissions from Natural Gas Combustion in Wael? Kilns

Potential Grad Elitissions (10th Matal Gas Compassion III waste Killis	ulai Gas Cullina	344 111 11000	acta Milita									
	Heat Input	Natural Ga	Natural Gas Combustion Emission	n Emission	Potential	Dotantial Hourly Emissions (lh/hr)	issions (lh	(hr)	Poten	Potential Annual Emissions (fny)	l Fmissions	(tov)
Kiln	Capacity	Fac	Factor (lb/MMBtu) <sup>1</sup>	tu)¹			, and on one					77.1
	MMBtu/hr	202	£	N <sub>2</sub> O	°02	*Ε	N2O	CO <sub>2</sub> e <sup>2</sup>	N <sub>2</sub> O CO <sub>2</sub> e <sup>2</sup> CO <sub>2</sub>	₽	N <sub>2</sub> O	co <sub>2</sub> e <sup>2</sup>
PC1	50	0	2000	100.0	5,849	0.11	0.01	5,855	5,855 25,618	0.48	0.05	25,644
PC2	50	115.98	116.98 2.20E-U3 2.20E-U4	2.20E-04	5,849	0.11	0.01	5,855	5,855 25,618	0.48	0.05	25,644
		Ţ	Total Potential Emissions	l Emissions	11,698	0.22	0.02	11,710	0.02 11,710 51,236	0.97	0.10	51,289

1. Emission factors for natural gas combustion from 40 CFR 98 Subpart C, Tables C-1 and C-2, converted from kg/MMBtu to lb/MMBtu.

2. COze is based on the sum of the emissions for each GHG pollutant multiplied by that pollutant's global warming potential from 40 CFR 98 Subpart A, Table A-1:

25 298 CH. ë

### Table C-3 - Potential HAP Emissions from Waelz Kilns

Waelz Sustainable Products, LLC - Muncie, Indiana

### **Potential HAP Emissions from the Waelz Kilns**

			Potential I	Emissions
Pollutant	НАР	Concentration in EAF Dust (%) <sup>1</sup>	Max (lb/hr) <sup>2</sup>	Annual (tpy)
Aluminum	N	0.525%	4.76E-02	0.17
Arsenic	Υ	0.008%	7.10E-04	2.58E-03
Barium	N	0.280%	2.54E-02	0.09
Cadmium	Υ	0.160%	1.45E-02	0.05
Chromium	Υ	0.460%	4.17E-02	0.15
Chromium (VI)	Υ	0.012%	1.09E-03	3.95E-03
Cobalt	Υ	0.003%	2.49E-04	9.05E-04
Copper	N	0.540%	4.90E-02	0.18
Pb	Υ	1.900%	1.72E-01	0.63
Manganese	Υ	2.100%	1.90E-01	0.69
Mercury	Υ	Mass Balance	0.17	0.77
Nickel	Υ	0.050%	4.53E-03	0.02
Selenium	Υ	0.005%	4.49E-04	1.63E-03
Silver	N	0.007%	6.23E-04	2.26E-03
Vanadium	N	0.140%	1.27E-02	0.05
Zinc	N	35.000%	3.17	11.52
		Total HAP	0.60	2.31

<sup>1.</sup> Potential HAP concentrations in EAF dust are based on test data from a similar facility.

<sup>2.</sup> Emission factor for lead is based on 2018 stack testing at a similar facility and includes a 50% contingency. For pollutants other than lead and mercury, emission rates were proportioned from the emission rate of lead based on the ratio of the concentration of lead to the ratio of the concentrations of each metal in EAF dust and WZO, respectively. For mercury, the emission rate is based on a mass balance from a similar facility.

### Table C-3 - Potential HAP Emissions from Waelz Kilns

Waelz Sustainable Products, LLC - Muncie, Indiana

### Potential HAP Emissions from Natural Gas Combustion in the Waelz Kilns

		1	Potential E	missions
Pollutant	НАР	Emission Factor <sup>1</sup> (lb/MMScf)	Max (lb/hr)	Annual (tpy)
2-Methylnaphthalene	Υ	2.4E-05	2.35E-06	1.03E-05
3-Methylchloranthrene	Υ	1.8E-06	1.76E-07	7.73E-07
7,12-Dimethylbenz(a)anthracene	Υ	1.6E-05	1.57E-06	6.87E-06
Acenaphthene	Υ	1.8E-06	1.76E-07	7.73E-07
Acenaphthylene	Υ	1.8E-06	1.76E-07	7.73E-07
Acetaldehyde	Υ	1.5E-05	1.49E-06	6.53E-06
Acrolein	Υ	1.8E-05	1.76E-06	7.73E-06
Ammonia	N	3.2	3.14E-01	1.37E+00
Anthracene	Υ	2.4E-06	2.35E-07	1.03E-06
Arsenic	Υ	2.0E-04	1.96E-05	8.59E-05
Benz(a)anthracene	Υ	1.8E-06	1.76E-07	7.73E-07
Benzene	Y	2.1E-03	2.06E-04	9.02E-04
Benzo(a)pyrene	Υ	1.2E-06	1.18E-07	5.15E-07
Benzo(b)fluoranthene	Υ	1.8E-06	1.76E-07	7.73E-07
Benzo(g,h,i)perylene	Υ	1.2E-06	1.18E-07	5.15E-07
Benzo(k)fluoranthene	Υ	1.8E-06	1.76E-07	7.73E-07
Beryllium	Y	1.2E-05	1.18E-06	5.15E-06
Cadmium	Υ	1.1E-03	1.08E-04	4.72E-04
Chromium VI	Υ	1.4E-03	1.37E-04	6.01E-04
Chrysene	Υ	1.8E-06	1.76E-07	7.73E-07
Cobalt	Υ	8.4E-05	8.24E-06	3.61E-05
Dibenzo(a,h)anthracene	Υ	1.2E-06	1.18E-07	5.15E-07
Dichlorobenzene	Υ	1.2E-03	1.18E-04	5.15E-04
Fluoranthene	Υ	3.0E-06	2.94E-07	1.29E-06
Fluorene	Υ	2.8E-06	2.75E-07	1.20E-06
Formaldehyde	Υ	7.5E-02	7.35E-03	3.22E-02
Hexane	Υ	1.8	1.76E-01	7.73E-01
Indeno(1,2,3-cd)pyrene	Υ	1.8E-06	1.76E-07	7.73E-07
Lead	Υ	5.0E-04	4.90E-05	2.15E-04
Manganese	Υ	3.8E-04	3.73E-05	1.63E-04
Mercury	Y	2.6E-04	2.55E-05	1.12E-04
Naphthalene	Υ	6.1E-04	5.98E-05	2.62E-04
Nickel	Y	2.1E-03	2.06E-04	9.02E-04
Phenanthrene	Υ	1.7E-05	1.67E-06	7.30E-06
Pyrene	Y	5.0E-06	4.90E-07	2.15E-06
Selenium compounds	Y	2.4E-05	2.35E-06	1.03E-05
Toluene	Y	3.4E-03	3.33E-04	1.46E-03
	-	Total HAP	1.85E-01	8.11E-01

<sup>1.</sup> Emission factors for natural gas combustion are from NCDAQ Natural Gas Combustion Spreadsheet and AP-42, Fifth Edition, Volume 1, Chapter 1.4 - Natural Gas Combustion, 07/98. The emission factors for acetaldehyde, acrolein, and ammonia are cited in the NCDAQ spreadsheet as being sourced from the USEPA's WebFIRE database.

Table C-4 - Baghouses Potential to Emit Calculations Waelz Sustainable Products, LLC - Muncle, Indiana

Potential HAP Concentrations in EAF Dust, WZO, and WIP

Politicant Aluminum Arsenic	-		
Aluminum Arsenic	(%)1		(%),
Arsenic	0.525%	0.054%	
	0.008%	0.003%	
Barium	0.280%	- control of the mail from the man and the	- Tarantananananananananananananananananana
Cadmium	0.160%	0,122%	,
Chromium	0.460%	0.027%	0.175%
Chromium (Vi)	0.012%		**************************************
Cobalt	0.003%	0.005%	
Copper	0.540%	0.058%	0.280%
Pb	1.900%	2.431%	0.008%
Manganese	2,100%	0.222%	5.100%
Mercury		Mass Balance	
Nickel	0.050%	0.021%	*
Selenium	0.005%		
Silver	0.007%	0.024%	
Vanadium	0.140%		- Annual Community of the Community of t
Zinc	35.00%	64.950%	3.997%

<sup>1.</sup> Potential metal concentrations in EAF dust, WZD, and WIP are based on test data from a similar facility.

Table C-4 - Baghouses Jal to Emit Calculations
Waelz Sustainable Products, L.C. - Muncle, Indiana

Potential Emissions from Baghouses

		700	Md	Sales Indiana	PM	V	4	Pb	Aluminum	muni	Arsenic	nic -	Barium	E	Cadmium	E E
Baghouse ID	Baghouse Description	Flow Rate (scfm)	Emission Factor (gr/dscf) <sup>1,2</sup>	of Operation (hrs/yr)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
RBBH1	EAF Receiving Building Baghouse	140,000	3.00E-03	8,760	3.6	15.77	0.014	90:0	3.79E-03	1.66E-02	5.65E-05	2.48E-04	2.02E-03	8.86E-03	1.16E-03	5.06E-03
СВВН1	Carbon/Limestone Receiving Building Baghouse	140,000	3.00E-03	8,760	3.6	15.77	0.014	90:0	3.79E-03	1.66E-02	5.65E-05	2.48E-04	2.02E-03	8.86E-03	1.16E-03	5.06E-03
PBBH1	Pelletizing Building / Cone Pelletizers Baghouse	140,000	3.00E-03	8,760	3.6	15.77	0.014	90.0	3.79E-03	1.66E-02	5.65E-05	2.48E-04	2.02E-03	8.86E-03	1.16E-03	5.06E-03
PBBH2	Pelletizing Building / Rotary Dryer Baghouse	140,000	4.50E-03	8,760	5.4	23.65	0.014	0.06	3.79E-03	1.66E-02	5.65E-05	2.48E-04	2.02E-03	8,86E-03	1.16E-03	5.06E-03
TBBH1	Kiln 1 Transition Building / WIP Building Baghouse	140,000	3.00E-03	8,760	3.6	15.77	5.78E-05	2.53E-04	,		,		,	,	,	,
TBBHZ	Kiln 2 Transition Building / WiP Building Baghouse	140,000	3.00E-03	8,760	3,6	15.77	5.78E-05	2.53E-04	1	-	,	,	,	-	,	-
FPBV1	Finished Product Silo No. 1 (Railway) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	3.59E-05	1.57E-04	2.00E-06	8.74E-06		,	8.09E-05	3.55E-04
FPBV2	Finished Product Silo No. 2 (Railway) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	3.59E-05	1.57E-04	2.00E-06	8.74E-06	,	,	8.09E-05	3.55E-04
FPBV3	Finished Product Silo No. 3 (Load Supersack) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	3.59E-05	1.57E-04	2,00E-06	8.74E-06	,		8.09E-05	3.55E-04
FPBV4	Finished Product Silo No. 4 (Load Supersack) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	3.59E-05	1,57E-04	2.00E-06	8.74E-06	,	-	8.09E-05	3.55E-04
FPBV5	Finished Product Silo No. 5 (Load Supersack) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	3.59E-05	1.57E-04	2.00E-06	8.74E-06	,	F	8.09E-05	3.55E-04
RMBV1	EAF Hopper No. 1 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	4.47E-04	1.96E-03	6,67E-06	2.92E-05	2.38£-04	1.04E-03	1.36E-04	5.97E-04
RMBV2	EAF Hopper No. 2 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	4.47E-04	1.96E-03	6.67E-06	2.92E-05	2.38E-04	1.04E-03	1.36E-04	5.97E-04
RMBV3	EAF Hopper No. 3 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	4.47E-04	1.96E-03	6.67E-06	2.92E-05	2.38E-04	1.04E-03	1.36E-04	5.97E-04
RMBV4	EAF Hopper No. 4 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	3.00E-03	8,760	0.1	0.35	0.0016	0.0071	4.47E-04	1.96E-03	6.67E-06	2.92E-05	2.38E-04	1.04E-03	1.36E-04	5.97E-04
				HAP	-	Z		٨		2	>		2		^	
	Address - Addres		Total Poten	tential Emissions	24.1	105.68	0.07	0:30	0.02	0.08	2.63E-04	1.15E-03	0.01	0.04	0.01	0.02

1. Baghouse/bin vent filter exit grain loading based on a similar facility.

2. Exit grain loading for PBBH2 also includes PM condensable emissions. PM Condensable grain loading conservatively assumes that PM condensable = 50% of PM filterable.

3. Potential hourly Pb emissions for the bin vents assume a lead fraction of 0.02 gr Pb/gr PM based on a similar facility. Potential hourly Pb emissions for RBBH1, CBBH1, PBBH1, and PBBH2 were estimated using

the February 2008 source testing results at a similar facility and a 50% safety factor, as shown in the following equation:

Potential Hourly Pb Emissions (lb/fir) = Max. Pb Emission Rate from February 2008 Source Tasting of PBH1 and PBH2 (0.0049 lb/hr) \* (100% + Safety Factor (50%)) \*

Potential hourly Pb emissions for TBBH1 and TBBH2 were estimated using the same equation above, and scaled Pb emissions to account for the lead concentration in WiP as compared to EAF dust. Baghouse Exhaust Gas Flow Rate (scfm) / Exhaust Gas Flow Rate for PBH1 and PBH2 (75,000 scfm)

4. Potential hourly emissions for pollutants other than PM and Pb were proportioned from the emission rate of lead based on the ratio of the concentration of lead to the ratio of the concentrations of each metal in EAF dust and W2O,

5. Mercury emissions are based on a facility-wide mass balance. As such, all potential mercury emissions from the facility's EAF dust, WIP, and WZO product handling are captured under the Kilns calculations. respectively. See Table C-3 for each compound's assumed concentration in EAF dust.

## Table C-4 - Baghouses Potential to Emit Calculations Waelz Sustainable Products, LLC - Muncie, Indiana

### Potential Emissions from Baghouses

EAF Receiving Duilding Baginouse   140,000   8,760   3,32E-03   1,45E-02   8,67E-05   3,80E-04   1,99E-05   8,70E-05   1,20E-05   1,45E-05   3,80E-04   1,99E-05   8,70E-05   1,20E-05   1,40E-05	Baphouse		Cotton Constitution		L									
Faff Receiving Building Baginouse	2		Exilates tiow Kate	Potential Hours		mum	E Louis	ium (VI)	8	balt	Cop	Copper	Mang	Manganese
Face Fore Fore Receiving Building Anna Pulcing Building Anna Pulcing Building Anna Pulcing Building Registrouse   140,000   8,760   3,32E-03   1,45E-02   8,67E-05   3,80E-04   1,99E-05   8,70E-05   8,70E-05   8,70E-05   8,70E-05   8,70E-05   8,70E-05   1,99E-05   8,70E-05   1,99E-05   8,70E-05   1,99E-05		(sctm)	of Operation	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(Ib/hr)	(tov)	(lb/hr)	(tov)	
Pelletzing Building / Cone Pelletzers   140,000   8,760   3,32E-03   1,45E-02   8,67E-05   3,80E-04   1,99E-05   8,70E-05	RBBH1	EAF Receiving Building Baghouse	140,000	8,760	3.32E-03	1.45E-02	8.67E-05	3.80E-04	1,99E-05	8.70E-05	3.90E-03	1.71E-02	1.52E-02	6.64F-02
Pelletizing Building / Cone Pelletizers	CBBH1	Carbon/Limestone Receiving Building Baghouse	140,000	8,760	3,32E-03	1.45E-02	8.67E-05	3.80E-04	1.99E-05		3,90E-03	1.71E-02	1.52E-02	6.64E-02
Mile   Transition Building   Notary Dryer Baghouse   140,000   8,760   1,26E-03   5,53E-03	PBBH1	Pelletizing Building / Cone Pelletizers Baghouse	140,000	8,760	3,32E-03	1.45E-02	8.67E-05	3.80E-04	1.99E-05	8.70E-05	3.90E-03	1.71E-02	1.52E-02	6.64E-02
Kiin 1 Transition Building / WiP Building         140,000         8,760         1.26E-03         5.53E-03	РВВН2	Pelletízing Building / Rotary Dryer Baghouse	140,000	8,760	3,32E-03	1.45E-02	8.67E-05	3.80E-04	1.99E-05	8.70£-05	3.90E-03	1.71E-02	1.52E-02	6.64E-02
Finished Product Silo No. 2 (Railway) Bin   3,145   8,760   1.26E-03   5.53E-03     3.33E-05   1.46E-05     3.33E-05   1.46E-05     3.33E-05   1.46E-05     3.33E-05   1.46E-05     3.33E-05   1.46E-05     3.33E-05     3.33E-05   1.46E-05     3.33E-05	TBBH1	Kiin 1 Transition Building / WIP Building Baghouse	140,000	8,760	1.26E-03	5,53E-03	1	2	1	,	0.00	0.01	3.68E-02	1.61E-01
Finished Product Silo No. 1 (Railway) Bin   3,145   8,760   1,80E-05   7,87E-05   -	ТВВН2	Kiln 2 Transition Building / WIP Building Baghouse	140,000	8,760	1.26E-03	5.53E-03	,	-	1	1	00:00	0.01	3.68E-02	1.61E-01
Finished Product Silo No. 2 (Railway) Bin    3,145   8,760   1,80E-05   7,87E-05   . • • • • • 3,33E-06   1,46E-05     Finished Product Silo No. 3 (Load Supersack)   3,145   8,760   1,80E-05   7,87E-05   . • • • • 3,33E-06   1,46E-05     Finished Product Silo No. 5 (Load Supersack)   3,145   8,760   1,80E-05   7,87E-05   . • • • 3,33E-06   1,46E-05     Finished Product Silo No. 5 (Load Supersack)   3,145   8,760   1,80E-05   1,20E-05   1,02E-05   1,02E-05     Finished Product Silo No. 5 (Load Supersack)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 1 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 3 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,44E-05   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pell	FPBV1	Finished Product Silo No. 1 (Railway) Bin Vent Filter		8,760	1.80E-05	7.87E-05	,		3.335-06	1,46E-05	3.84E-05	1.68E-04	1.47E-04	6.46E-04
Finished Product Silo No. 3 (Load Supersack)   3,145   8,760   1.80E-05   7.87E-05   . • •   3.33E-06   1.46E-05   1.46E-05   1.80E-05   1.80	FPBV2	Finished Product Silo No. 2 (Railway) Bin Vent Filter		8,760	1.80E-05	7.87E-05	1	***************************************	3.33E-06	1.46E-05	3.84E-05	1.68E-04	1.47E-04	6.46E-04
Finished Product Silo No. 4 (Load Supersack)   3,145   8,760   1,80E-05   7,87E-05   . • • • 3,33E-06   1,46E-05     Finished Product Silo No. 5 (Load Supersack)   3,145   8,760   1,80E-05   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 2 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 3 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 3 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2,34E-06   1,03E-05	FPBV3	Finished Product Silo No. 3 (Load Supersack) Bin Vent Filter		8,760	1.806-05	7.87E-05	-		3.33E-06	1.465-05	3.84E-05	1.68E-04	1,47E-04	6.46E-04
Finished Product Silo No. 5 (Load Supersack)   3,145   8,760   1.80E-05   7.87E-05     3.33E-06   1.46E-05     EAF Hopper No. 1 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 2 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 3 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)   4,47E-05   2.34E-06   1.03E-05     EAF Hopper No. 4 (Feed to Cone Pelletizer)	FP8V4	Finished Product Silo No. 4 (Load Supersack) Bin Vent Filter		8,760	1.80E-05	7.87E-05		,	3.33E-06	1.46E-05	3.84E-05	1.68E-04	1.47E-04	6.46E-04
EAF Hopper No. 1 (Feed to Cone Pelletizer)       3,145       8,760       3,92E-04       1.72E-03       1.02E-05       4,47E-05       2.34E-06       1.03E-05         EAF Hopper No. 2 (Feed to Cone Pelletizer)       3,145       8,760       3,92E-04       1.72E-03       1.02E-05       4,47E-05       2,34E-06       1.03E-05         EAF Hopper No. 3 (Feed to Cone Pelletizer)       3,145       8,760       3,92E-04       1.72E-03       1.02E-05       4,47E-05       2,34E-06       1.03E-05         EAF Hopper No. 4 (Feed to Cone Pelletizer)       3,145       8,760       3,92E-04       1.72E-03       1.02E-05       4,47E-05       2,34E-06       1.03E-05         HAP       100E-05       100E-05       4,47E-05       2,34E-06       1.03E-05       1.03E-05	FPBV5	Finished Product Silo No. 5 (Load Supersack) Bin Vent Filter	3,145	8,760	1,80E-05	7.87E-05	•		3.33E-06	1.46E-05	3.84E-05	1.68E-04	1.47E-04	6.46E-04
EAF Hopper No. 2 (Feed to Cone Pelletizer)   3,145   8,760   3,92E-04   1,72E-03   1,02E-05   4,47E-05   2,34E-06   1,03E-05	RMBV1	EAF Hopper No. 1 (Feed to Cone Pelletizer) Bin Vent Filter		8,760	3.92E-04	1.72E-03	1.02E-05	4.47E-05	2.34E-06	1.03E-05	4.60E-04	2.01E-03	1.79E-03	7.83E-03
EAF Hopper No. 3 (Feed to Cone Pelletizer)         3,145         8,760         3.92E-04         1,72E-03         1,02E-05         4,47E-05         2,34E-06           EAF Hopper No. 4 (Feed to Cone Pelletizer)         3,145         8,760         3,92E-04         1,72E-03         1,02E-05         4,47E-05         2,34E-06           Bin Vent Filter         HAP         Y         Y         Y         Y           Total Potential Emissions         0,02         0,08         3,37E-04         1,77E-03	RMBV2	EAF Hopper No. 2 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	8,760	3.92E-04	1,72E-03	1.02E-05	4,47E-05	2.34E-06	1.03E-05	4.60E-04	2.01E-03	1.79E-03	7.83E-03
EAF Hopper No. 4 (Feed to Cone Pelletizer)   3,145   8,760   3.92E-04   1.72E-03   1.02E-05   4.47E-05   2.34E-06	RMBV3	EAF Hopper No. 3 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	8,760	3.92E-04	1.72E-03	1.02E-05	4.47E-05	2.34E-06	1.03E-05	4.60E-04	2.01E-03	1.79E-03	7.83E-03
0.02 0.08 3.87F.04 1.70F.03 1.05F.04	RMBV4	EAF Hopper No. 4 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	8,760	3.92E-04	1.72E-03	1.02E-05	4.47E-05	2.34E-06	1.03E-05	4.60E-04	2.01E-03	1.79E-03	7.83E-03
0.02 0.08 3.87F-04 1.70F-03 1.05F-04				HAP			>-	,			2			
			Total Po	tential Emissions	0.02	0.08	3.87E-04	1.70E-03	1.05F-04	4 67F.04	00	900	14	0.53

1. Baghouse/bin vent filter exit grain loading based on a similar facility.

2. Exit grain loading for PBBH2 also includes PM condensable emissions. PM Condensable grain loading conservatively assumes that PM condensable = 50% of PM filterable.

3. Potential hourly Pb emissions for the bin vents assume a lead fraction of 0.02 gr Pb/gr PM based on a similar facility. Potential hourly Pb emissions for RBBH1, CBBH1, PBBH1, and PBBH2 were estimated using

the February 2008 source testing results at a similar facility and a 50% safety factor, as shown in the following equation:

Potential Hourly Pb Emissions (lb/hr) = Max. Pb Emission Rate from February 2008 Source Testing of PBH1 and PBH2 (0.0049 lb/hr) \* [100% + Safety Factor (50%)] \* Baghouse Exhaust Gas Flow Rate (scfm) / Exhaust Gas Flow Rate for PBH1 and PBH2 (75,000 scfm)

4. Potential hourly emissions for pollutants other than PM and Pb were proportioned from the emission rate of lead based on the ratio of the concentration of lead to the ratio of the concentrations of each metal in EAF dust and WZO, Potential hourly Pb emissions for TBBH1 and TBBH2 were estimated using the same equation above, and scaled Pb emissions to account for the lead concentration in WIP as compared to EAF dust. respectively. See Table C-3 for each compound's assumed concentration in EAF dust.

5. Mercury emissions are based on a facility-wide mass balance. As such, all potential mercury emissions from the facility's EAF dust, WIP, and WZO product handing are captured under the Klins calculations.

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Table C-4 - Baghouses ... ital to Emit Calculations Waelz Sustainable Products, LLC - Muncie, Indiana

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) Lenidal E	Otenidal Cinissions (form pagnouses	Table of Care Plants	South Later Charles	Z	Nickel	Salar	Solonium	AliS	Silver	Vanadium	dium	Zinc	
sagnouse ID	Baghouse Description	(scfm)	of Operation	(lb/hr)	(tpy)								
RBBH1	EAF Receiving Building Baghouse	140,000	8,760	3.61E-04	1,585-03	3.57E-05	1.57E-04	4,96E-05	2.17E-04	1.01E-03	4.43E-03	2.53E-01	1.11
СВВН1	Carbon/Limestone Receiving Building Baghouse	140,000	8,760	3.61E-04	1,58E-03	3.57E-05	1.57E-04	4.96E-05	2.17E-04	1.01E-03	4,43E-03	2.53E-01	1,11
PBBH1	Pelletizing Building / Cone Pelletizers Baghouse	140,000	8,760	3.61E-04	1.58E-03	3.57E-05	1.57E-04	4.96E-05	2.17E-04	1.01E-03	4.43E-03	2.53E-01	1.11
PBBH2	Pelletizing Building / Rotary Dryer Baghouse	140,000	8,760	3.61E-04	1.58E-03	3,57E-05	1.57E-04	4.96E-05	2.17E-04	1.016-03	4,43E-03	2.53E-01	1.13
TBBH1	Kiin 1 Transition Building / WIP Building Baghouse	140,000	8,760	,		,	,	ŀ	•	•	F	0.03	0.13
TBBH2	Kiin 2 Transition Building / WiP Building Baghouse	140,000	8,760	'	,	3	-	i	,	ı	-	0.03	0.13
FPBV1	Finished Product Silo No. 1 (Railway) Bin Vent Filter	3,145	8,760	1,40E-05	6,12E-05	1	-	1.60E-05	6.99E-05	-	*	4.32E-02	1.89E-01
FPBV2	Finished Product Silo No. 2 (Railway) Bin Vent Filter	3,145	8,760	1.40E-05	6.12E-05	ì	1	1.60E-05	6,99E-05	•	,	4.32E-02	1.89E-01
FPBV3	Finished Product Silo No. 3 (Load Supersack) Bin Vent Filter	3,145	8,760	1.40E-05	6.12E-05	•	•	1.60E-05	6.99E-05	+	•	4.32E-02	1.89E-01
FPBV4	Finished Product Silo No. 4 (Load Supersack) Bin Vent Filter	3,145	8,760	1.40E-05	6.12E-05	ı	-	1.60E-05	6.99E-05	ı	,	4.32E-02	1.89E-01
FPBVS	Finished Product Silo No. 5 (Load Supersack) Bin Vent Filter	3,145	8,760	1,40E-05	6.12E-05	,	-	1.60E-05	6.99E-05	,	,	4.32E-02	1.89E-01
RMBV1	EAF Hopper No. 1 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	8,760	4.26E-05	1.86E-04	4.21E-06	1.85E-05	5.85E-06	2.56E-05	1.19E-04	5.22E-04	2.98E-02	0.13
RMBV2	EAF Hopper No. 2 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	8,760	4.26E-05	1.86E-04	4.21E-06	1.85E-05	5.85E-06	2.56E-05	1.19E-04	5.22E-04	2.98E-02	0.13
RMBV3	EAF Hopper No. 3 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	8,760	4,26E-05	1.86E-04	4.21£-06	1.85E-05	5.85E-06	2.56E-05	1.19E-04	5.22E-04	2,98E-02	0.13
RMBV4	EAF Hopper No. 4 (Feed to Cone Pelletizer) Bin Vent Filter	3,145	8,760	4.26E-05	1.86E-04	4.21E-06	1.85E-05	5.85E-06	2.56E-05	1.19E-04	5.22E-04	2.98E-02	0.13
	A STATE OF THE PARTY OF THE PAR		HAP		٨		۸		N	_	z	2	
	***************************************	Total Pe	Total Potential Emissions 1.68E-03	1.68E-03	7.38E-03	1.60E-04	7.005-04	3.02E-04	1.32E-03	4.52E-03	0.020	1.40	6.15

1. Baghouse/bin vent filter exit grain loading based on a similar facility.

2. Exit grain loading for PBBH2 also includes PM condensable emissions. PM Condensable grain loading conservatively assumes that PM condensable = 50% of PM filterable.

3. Potential hourly Pb emissions for the bin vents assume a lead fraction of 0.02 gr Pb/gr PM based on a similar facility. Potential hourly Pb emissions for RBBH1, CBBH3, PBBH1, and PBBH2 were estimated using

the February 2008 source testing results at a similar facility and a 50% safety factor, as shown in the following equation:

s February 2008 source testing results at a similar facility and a 20% safety factor, as smown in the following expaction.

Potential Hourly Pb Emissions (Ib/hr) = Mas. Pb Emission Rate from February 2008 Source Testing of PBH1 and PBH2 (0.0049 Ib/hr) \* [100% + Safety Factor [50%]] \*

Baghouse Exhaust Gas Flow Rate (scfm) / Exhaust Gas Flow Rate for PBH1 and PBH2 (75,000 scfm)

Potential hourly Pb emissions for 188H1 and TBBH2 were estimated using the same equation above, and scaled Pb emissions to account for the lead concentration in WIP as compared to EAF dust.

4. Potential hourly emissions for pollutants other than PM and Pb were proportioned from the emission rate of lead based on the ratio of the concentration of lead to the ratio of the concentrations of each metal in EAF dust and WZO, respectively. See Table C-3 for each compound's assumed concentration in EAF dust.

5. Mercury emissions are based on a facility-wide mass balance. As such, all potential mercury emissions from the facility's EAF dust, WIP, and WZO product handling are captured under the Kiins calculations.

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### Table C-5 - Feed Dryer Potential to Emit Calculations for Criteria Pollutants

Waelz Sustainable Products, LLC - Muncie, Indiana

### **Feed Dryer Burner Operational Data**

Fuel Combusted	Natural Gas
Heat Input Capacity	17 MMBtu/hr
Natural Gas Heating Value <sup>1</sup>	1,020 Btu/scf
Potential Annual Hours of Operation	8,760 hrs/yr

<sup>1.</sup> Average natural gas heating value, per the EPA's AP-42, Section 1.4, Natural Gas Combustion (July 1998).

### Potential Criteria Pollutant Emissions from Natural Gas Combustion in the Feed Dryer

Pollutant	Natural Gas Combustion Emission Factor (lb/MMscf) <sup>1</sup>	Potential Hourly Emissions (lb/hr) <sup>2</sup>	Potential Annual Emissions (tpy)
СО	84	1.40	6.13
NO <sub>x</sub>	100	1.67	7.30
PM	7.6	Included w	ith PBBH2
SO <sub>2</sub>	0.6	0.01	0.04
VOC	5.5	0.09	0.40
Pb	5.0E-04	Included w	ith PBBH2

- 1. Emission factors per the EPA's AP-42, Section 1.4, *Natural Gas Combustion*, Tables 1.4-1 and 1.4-2 (July 1998) for small (< 100 MMBtu/hr), uncontrolled boilers.
- 2. Potential hourly emissions were calculated using the following equation:

  Hourly Emissions (lb/hr) = Natural Gas Combustion Emission Factor (lb/MMscf) \* Heat Input Capacity (MMBtu/hr) / Natural Gas Heating Value (Btu/scf)

### Potential GHG Emissions from Natural Gas Combustion in the Feed Dryer

Pollutant	Natural Gas Combustion Emission Factor (lb/MMBtu) <sup>1</sup>	Potential Hourly Emissions (lb/hr)	Potential Annual Emissions (tpy)
CO <sub>2</sub>	116.98	1,989	8,710
CH₄	2.20E-03	0.04	0.16
N <sub>2</sub> O	2.20E-04	3.75E-03	0.02
CO <sub>2</sub> e <sup>2</sup>	117.10	1,991	8,719

- 1. Emission factors for natural gas combustion from 40 CFR 98 Subpart C, Tables C-1 and C-2, converted from kg/MMBtu to lb/MMBtu.
- 2. CO<sub>2</sub>e is based on the sum of the emissions for each GHG pollutant multiplied by that pollutant's global warming potential from 40 CFR 98 Subpart A, Table A-1:

 $CO_2$ : 1  $CH_4$ : 25  $N_2O$ : 298

### Table C-6 - Feed Dryer Potential to Emit Calculations for HAP Emissions

Waelz Sustainable Products, LLC - Muncie, Indiana

Potential HAP Emissions from Natural Gas Combustion in the Feed Dryer

			Potential	Emissions
Pollutant	НАР	Emission Factor <sup>1</sup> (lb/MMScf)	Max (lb/hr)	Annual (tpy)
2-Methylnaphthalene	Υ	2.4E-05	4.00E-07	1.75E-06
3-Methylchloranthrene	Υ	1.8E-06	3.00E-08	1.31E-07
7,12-Dimethylbenz(a)anthracene	Υ	1.6E-05	2.67E-07	1.17E-06
Acenaphthene	Υ	1.8E-06	3.00E-08	1.31E-07
Acenaphthylene	Υ	1.8E-06	3.00E-08	1.31E-07
Acetaldehyde	Υ	1.5E-05	2.53E-07	1.11E-06
Acrolein	Υ	1.8E-05	3.00E-07	1.31E-06
Ammonia	N	3.2	5.33E-02	2.34E-01
Anthracene	Υ	2.4E-06	4.00E-08	1.75E-07
Arsenic	γ	2.0E-04	3.33E-06	1.46E-05
Benz(a)anthracene	Υ	1.8E-06	3.00E-08	1.31E-07
Benzene	Υ	2.1E-03	3.50E-05	1.53E-04
Benzo(a)pyrene	Υ	1.2E-06	2.00E-08	8.76E-08
Benzo(b)fluoranthene	Υ	1.8E-06	3.00E-08	1.31E-07
Benzo(g,h,i)perylene	Υ	1.2E-06	2.00E-08	8.76E-08
Benzo(k)fluoranthene	Υ	1.8E-06	3.00E-08	1.31E-07
Beryllium	Υ	1.2E-05	2.00E-07	8.76E-07
Cadmium	Y	1.1E-03	1.83E-05	8.03E-05
Chromium VI	Υ	1.4E-03	2.33E-05	1.02E-04
Chrysene	Υ	1.8E-06	3.00E-08	1.31E-07
Cobalt	Υ	8.4E-05	1.40E-06	6.13E-06
Dibenzo(a,h)anthracene	Υ	1.2E-06	2.00E-08	8.76E-08
Dichlorobenzene	Υ	1.2E-03	2.00E-05	8.76E-05
Fluoranthene	Υ	3.0E-06	5.00E-08	2.19E-07
Fluorene	Υ	2.8E-06	4.67E-08	2.04E-07
Formaldehyde	Υ	7.5E-02	1.25E-03	5.48E-03
Hexane	Υ	1.8	3.00E-02	1.31E-01
Indeno(1,2,3-cd)pyrene	Υ	1.8E-06	3.00E-08	1.31E-07
Lead	Υ	5.0E-04	8.33E-06	3.65E-05
Manganese	Υ	3.8E-04	6.33E-06	2.77E-05
Mercury	Υ	2.6E-04	4.33E-06	1.90E-05
Naphthalene	Υ	6.1E-04	1.02E-05	4.45E-05
Nickel	Υ	2.1E-03	3.50E-05	1.53E-04
Phenanthrene	Υ	1.7E-05	2.83E-07	1.24E-06
Pyrene	Υ	5.0E-06	8.33E-08	3.65E-07
Selenium compounds	Υ	2.4E-05	4.00E-07	1.75E-06
Toluene	Υ	3.4E-03	5.67E-05	2.48E-04
		Total HAP	3.15E-02	1.38E-01

<sup>1.</sup> Emission factors for natural gas combustion are from NCDAQ Natural Gas Combustion Spreadsheet and AP-42, Fifth Edition, Volume 1, Chapter 1.4 - Natural Gas Combustion, 07/98. The emission factors for acetaldehyde, acrolein, and ammonia are cited in the NCDAQ spreadsheet as being sourced from the USEPA's WebFIRE database.

### Table C-7 - Emergency Generator Potential to Emit Calculations

Waelz Sustainable Products, LLC - Muncie, Indiana

### **Emergency Generators Operational Data**

Fuel Fired		Die	esel
Capacity	Generator 1 (EG1)	2,000	hp
Capacity	Generator 2 (EG2)	2,000	hp
Max. Fuel Sulfur	Content <sup>1</sup>	0.05	%
Potential Annua	Hours of Operation <sup>1</sup>	500	hrs/yr

<sup>2.</sup> Diesel fuel sulfur content limit and potential hours of operation based on a similar facility.

### **Potential Criteria Pollutant Emissions from Emergency Generators**

Pollutant	Diesel Combustion Emission Factor	Potential	Hourly Emission	ns (lb/hr)	Potentia	l Annual Emissi	ons (tpy)
rongtant	(lb/hp-hr) <sup>1,2</sup>	EG1	EG2	Total	EG1	EG2	Total
CO	5.50E-03	11.00	11.00	22.00	2.75	2.75	5.50
$NO_X$	0.024	48.00	48.00	96.00	12.00	12.00	24.00
PM	7.00E-04	1.40	1.40	2.80	0.35	0.35	0.70
SO <sub>2</sub>	4.05E-04	0.81	0.81	1.62	0.20	0.20	0.40
VOC <sup>3</sup>	7.05E-04	1.41	1.41	2.82	0.35	0.35	0.71
Pb	6.30E-08	1.26E-04	1.26E-04	2.52E-04	3.15E-05	3,15E-05	6.30E-0

<sup>1.</sup> Except for Pb, emission factors are from the EPA's AP-42, Section 3.4, Large Stationary Diesel and All Stationary Dual-fuel Engines, Table 3.4-1 (October 1996) for diesel fuel firing.

### **Potential GHG Emissions from Emergency Generators**

Pollutant	No. 2 Fuel Oil Combustion Emission Factor	Potential	Hourly Emissio	ns (lb/hr)²	Potentia	il Annual Emissi	ons (tpy)
	(lb/MMBtu) <sup>1</sup>	EG1	EG2	Total	EG1	EG2	Total
CO <sub>2</sub>	163.05	2,283	2,283	4,566	570.69	570.69	1,141
CH₄	6.61E-03	0.09	0.09	0.19	0.02	0.02	0.05
N <sub>2</sub> O	1.32E-03	0.02	0.02	0.04	4.63E-03	4.63E-03	9.26E-03
CO₂e³	163.61	2,291	2,291	4,581	572.65	572.65	1,145

<sup>1.</sup> Emission factors for natural gas combustion from 40 CFR 98 Subpart C, Tables C-1 and C-2, converted from kg/MMBtu to ib/MMBtu.

3. CO<sub>2</sub>e is based on the sum of the emissions for each GHG pollutant multiplied by that pollutant's global warming potential from 40 CFR 98 Subpart A, Table A-1:

 $CO_2$ : 1  $CH_4$ : 25  $N_2O$ : 298

<sup>2.</sup> The Pb emission factor was taken from the EPA's AP-42, Section 1.3, Fuel Oil Combustion, Table 1.3-10 (May 2010) for distillate fuel oil combustion. The emission factor was converted from lb/10<sup>12</sup> Btu to lb/hp-hr using the following equation:

Pb Emission Factor (lb/hp-hr) = Pb Emission Factor (lb/10<sup>12</sup> Btu) / (10<sup>12</sup>) \* Average Diesel Engine Brake-Specific Fuel Consumption from AP-42 Table 3.3-1 (7,000 Btu/hp-hr)

<sup>3.</sup> Conservatively assumed VOC=THC.

<sup>2.</sup> Emissions were estimated using an average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr, per AP-42, Table 3.3-1: GHG Emissions (lb/hr) = GHG Emission Factor (lb/MMBtu) \* (7,000 Btu/hp-hr) / (10^6 Btu/MMBtu) \* Engine Capacity (hp)

### Table C-7 - Emergency Generator Potential to Emit Calculations

Waelz Sustainable Products, LLC - Muncie, Indiana

### **Potential HAP Emissions**

Pollutant <sup>3</sup>	No. 2 Fuel Oil Combustion Emission Factor	Potential	Hourly Emissio	ns (lb/hr)	Potentia	Annual Emissio	ons (tpy) <sup>2</sup>
	(lb/MMBtu) <sup>1</sup>	EG1	EG2	Total	EG1	EG2	Total
Acetaldehyde	2.52E-05	3.53E-04	3.53E-04	7.06E-04	8.82E-05	8.82E-05	1.76E-04
Acrolein	7.88E-06	1.10E-04	1.10E-04	2.21E-04	2.76E-05	2.76E-05	5.52E-05
Benzene	7.76E-04	0.01	0.01	0.02	2.72E-03	2.72E-03	5.43E-03
Benzo(a)pyrene	2.57E-07	3.60E-06	3.60E-06	7.20E-06	9.00E-07	9.00E-07	1.80E-06
Formaldehyde	7.89E-05	1.10E-03	1.10E-03	2.21E-03	2.76E-04	2.76E-04	5.52E-04
Naphthalene	1.30E-04	1.82E-03	1.82E-03	3.64E-03	4.55E-04	4.55E-04	9.10E-04
Total PAH (POM)	2.12E-04	2.97E-03	2.97E-03	5.94E-03	7.42E-04	7.42E-04	1.48E-03
Toluene	2.81E-04	3.93E-03	3.93E-03	7.87E-03	9.84E-04	9.84E-04	1.97E-03
Xylene	1.93E-04	2.70E-03	2.70E-03	5.40E-03	6.76E-04	6.76E-04	1.35E-03
			Total	HAP Emissions	5.51E-03	5.51E-03	1.10E-02

<sup>1.</sup> Emission factors obtained from AP-42 Section 3.4 - Large Stationary Diesel and All Stationary Duel-fuel Engines, 10/96, Table 3.4-3 and Table 3.4-4.

<sup>2.</sup> NSPS allows for only 100 hrs/yr of non-emergency operation of these engines. Potential emissions for the emergency generator are conservatively based on 500 hr/yr.

<sup>3.</sup> Benzo(a)pyrene and naphthalene are included as HAPs in Total PAH.

# Table C.8 - Insignificant Activities Potential to Emit Calculations Waelz Sustainable Products, LLC - Muncie, Indiana

Potential Emissions from Insignificant Diesel Fuel Storage Tank

Tank Canacity (gal)	Max. Annual Throughput <sup>2</sup>	A control Times	Potential VOC Emissions
Judy Grandes was:	(gal/yr)		(tpy) <sup>1</sup>
10,000	102,200	10.2	1.05E-03

1. Emissions were estimated using the EPA's TANKS 4,09,d.

2. Using factors from AP-42 3.3 and 3.4, the annual throughput is calculated as follows: (gal/yr) = (EG, hp + EG, hp) \* (7,000 Btu/hp-hr) / (19,300 Btu/lb) / (7.1 lb/gal) \* (EG hrs/yr)

Insignificant Water Heaters and Space Heaters Operational Data

Fuel Combusted	Natural Gas
Number of Gas-Fired Water Heaters	2 units
Combined Heat Input Capacity for Water Heaters	1.00 MMBtu/hr
Number of Gas-Fired Space Heaters	5 units
Combined Heat Input Capacity for Space Heaters	0.67 MMBtu/hr
Natural Gas Heating Value <sup>1</sup>	1,020 Btu/scf
Potential Annual Hours of Operation	8,760 hrs/yr

1. Average natural gas heating value, per the EPA's AP-42, Section 1.4, Natural Gas Combustion (July 1998).

Potential Criteria Pollutant Emissions from Natural Gas Combustion in the Insignificant Water Heaters and Space Heaters

	_		Т	Т	Т	I	Т	T.,
	sions (tpy)	Total	0.60	0.72	0.05	4.29E-03	0.04	m
	Potential Annual Emissions (tpy)	Space	0.24	0.29	0.02	9.80E-04 2.58E-03 1.72E-03	0.02	2.15E-06 1.43E-06
	Potential	Water	0.36	0.43	0.03	2.58E-03	0.02	2.15E-06
eaters		Total	0.14	0.16	0.01	9.80E-04	8.98E-03	8.17E-07
ers and Space H	nissions (lb/hr) <sup>2</sup>	Space Heaters	0.05	0.07	4.96E-03	3.92E-04	3.596-03	3.26E-07
in the insignificant Water Heat	Potential Hourly Emissions (lb/hr) <sup>2</sup>	Water Heaters	80:0	0,10	7.45E-03	5.88E-04	5,39E-03	4.90E-07
dill Emissions from Natural Gas Combustion in the insignificant Water Heaters and Space Heaters	Natural Gas Combustion	Emission Factor (Ib/MMscf) <sup>1</sup>	84	100	7.6	9'0	5.5	5,0E-04
roteittai cilteria rollutalit emissio		Pollutant	03	NO <sub>x</sub>	PM	SO <sub>2</sub>	VOC	Pb

1. Emission factors per the EPA's AP-42, Section 1.4, Natural Gas Combustion, Tables 1.4-1 and 1.4-2 (July 1998) for small (< 100 MMBtu/hr), uncontrolled boilers.

2. Potential hourly emissions were calculated using the following equation:

Hourly Emissions (Ib/hr) = Natural Gas Combustion Emission Factor (Ib/MMscf) \* Heat Input Capacity (MMBtu/hr) / Natural Gas Heating Value (Btu/scf)

Potential GHG Emissions from Natural Gas Combustion in the Insignificant Water Heaters and Space Heaters

	Natural Gas Compustion	Potential Hourly Emissions (lb/hr	issions (lb/hr)		Potential,	Potential Annual Emissions (tpy	ions (tpy)
Pollutant	Emission Cardon (lb/bandb+1.)1	Motor Lances	Space	Total	Water	Space	,
	cumsion (a) winding		Heaters	lotal	Heaters	Heaters	lotai
CO2	116.98	116.98	77.91	194.88	512.36	341.23	853.59
CH₄	2.20E-03	2.20E-03	1.47E-03	3.67E-03	9.66E-03 6.43E-03	6.43E-03	0.02
O <sub>2</sub> O	2.20E-04	2.20E-04	1.47E-04	3.67E-04	9.66E-04	9.665-04 6.435-04	1.61E-03
CO <sub>2</sub> e <sup>2</sup>	117.10	117.10	77.99	195.09	512.89	341.58	854.47

1. Emission factors for natural gas combustion from 40 CFR 98 Subpart C, Tables C-1 and C-2, converted from kg/MMBtu to lb/MMBtu.

2. CO<sub>2</sub>e is based on the sum of the emissions for each GHG pollutant multiplied by that pollutant's global warming potential from 40 CFR 98 Subpart A, Table A-1:

CH<sub>4</sub>: 25 N<sub>2</sub>O: 298 
 Table C-8 - Insignificant Acti.
 Potential to Emit Calculations

 Waelz Sustainable Products, LLC - Muncie, Indiana

(lb/MMScf)	Space	Total	Water 9	Snace	
		222		*	Total
Heaters	Heaters			Heaters	
2.4£-05 4.71E-08	7.84E-08	1.25E-07	2.05E-07 3.	3.43E-07	5.49E-07
1.8E-06 3.53E-09	5.88E-09	9.41E-09	1.55E-08 2.		4.12E-08
1.6E-05 3.14E-08	5.22E-08	8.36E-08	1.37E-07 2.	2.29E-07	3.66E-07
1.8E-06 3.53E-09	5.88E-09	9.41E-09	1.55E-08 2.	2.57E-08	4.12E-08
1.8E-06 3.53E-09	5.88E-09	9.41E-09	1.55E-08 2.	2.57E-08	4.12E-08
1.5E-05 2.98E-08	4.96E-08	7.94E-08	1.31E-07 2.	2.17E-07	3.48E-07
1.8E-05 3.53E-08	5.88E-08	9.41E-08	1.55E-07 2.	2.57E-07	4.12E-07
3.2 6.27E-03	1.04E-02	1.67E-02		4.58E-02	7,32E-02
2.4E-06 4.71E-09	7.84E-09	1.25E-08		3.43E-08	5.49E-08
2.0E-04 3.92E-07	6.53E-07	1.05E-06	1.72E-06 2.	2.86E-06	4.58E-06
1.8E-06 3.53E-09	5.88E-09	9,41E-09	1.55E-08 2.	2.57E-08	4.12E-08
2.1E-03 4.12E-06	6.86E-06	1.10E-05	1.80E-05 3.	3.00E-05	4.81E-05
1.2E-06 2.35E-09	3.925-09	6.27E-09		1.72E-08	2.75E-08
1.8E-06 3.53E-09	5.88E-09	9.41E-09	1.55E-08 2.	2.57E-08	4.12E-08
1.2E-06 2.35E-09	3.92E-09	6.27E-09	1,03E-08 1.	1.72E-08	2.75E-08
1.8E-06 3.53E-09	5.88E-09	9.41E-09	$\dashv$		4.12E-08
1,2E-05 2.35E-08	3.92E-08	6.27E-08	1.03E-07 1.	4	2.75E-07
1.1E-03 2.16E-06	3.59E-06	5.75E-06	9.45E-06 1.	1.57E-05	2.52E-05
1.4E-03 2.75E-06	4.57E-06	7.32E-06		4	3,20E-05
1.8E-06 3.53E-09	5.88E-09	9.41E-09	1.55E-08 2.	_	4.12E-08
8,4E-05 1.65E-07	2.74E-07	4.39E-07	Н		1.92E-06
1.2E-06 2.35E-09	3.92E-09	6.27E-09			2.75E-08
1.2E-03 2.35E-06	3.92E-06	6.27E-06	$\dashv$	4	2.75E-05
3.0E-06 5.88E-09	9.79£-09	1.57E-08	-	4	6.87E-08
2.8E-06 5.49E-09	$\dashv$	1.46E-08	$\dashv$	4	6.41E-08
7.5E-02 1.47E-04	2.45E-04	3.92E-04	$\dashv$	4	1.72E-03
1.8 3.53E-03	5.88E-03	9.41E-03	┥	$\dashv$	4.12E-02
1,8E-06 3.53E-09		9.41E-09	-	4	4.12E-08
5.0E-04 9.80E-07	1.63E-06	2.61E-06	-	4	1.14E-05
3.8E-04 7.45E-07	1.24E-06	1.99E-06	-		8.70E-06
2.6E-04 5.10E-07	8.49E-07	1,36E-06	$\dashv$	_	5.95E-06
6.1E-04 1.20E-06	1.99E-06	3.19E-06	5.24E-06 8.	$\dashv$	1,40E-05
2.1E-03 4.12E-06	_	1.10E-05	-	_	4.81E-05
1.7E-05 3.33E-08	5.55E-08	8.88E-08	-	_	3.89E-07
5.0E-06 9.80E-09	$\dashv$	2.61E-08	-	_	1.14E-07
2.4E-05 4.71E-08	7.84E-08	1.25E-07	4	_	5.49E-07
3.4E-03 6.67E-06	1.11E-05	1.78E-05	_	4.86E-05	7.78E-05
	╁		╬	1.78E-05 2.92E-05	1.78E-05 2.92E-05 4.86E-05

1. Emission factors for natural gas combustion are from NCDAQ Natural Gas Combustion Spreadsheet and AP-42, Fifth Edition, Volume 1, Chapter 1.4 - Natural Gas Combustion, 07/98. The emission factors for acetaldehyde, acrolein, and ammonia are cited in the NCDAQ spreadsheet as being sourced from the USEPA's WebFIRE database.

## Potential Emissions from Paved Roads

	Maximum trine nor day	Adamson Mainh	Total Mericket dains				
Type	too and reference to the second		Toral weight unveil per	Maximum one-way	waximum one-way	Maximum one-way	Maximum one-way miles
	(trip/day)	Loaded (tons/trip)	day (ton/day)	distance (feet/trip)	distance (mi/trip)	miles (miles/dav)	(miles/vr)
Carbon Trucks	2	20	40	2,640	0.5	1.0	365
Diesel Trucks <sup>1</sup>	T	40	40	2.640	0.5	0.5	183
EAF Dust Dump Trucks	24	30	490	000 C			nort .
		22	704	7,040	ć.0	17.0	4,380
EAF Dust PD Trucks	pref	20	20	2,640	0.5	0.5	183
Finished Product Trucks	09	25	1.500	2.540	0.5	0.05	10 950
Total	88	The state of the s	2.080			0.00	16 050

Maximum weight loaded is assumed to 80,000 lbs based on legal weight limit to be conservative.

 $^{\rm 2}$  Assumed a 1/2 mile one-way trip based on plot plan layout of facility.

miles/trip tons/trip 23.6 Average Miles Per Trip = Average Vehicle Weight Per Trip =

Unmitigated Emission Factor, Ef =  $[k * (sL)^{0.91} * (W)^{1.02}]$  (Equation 1 from AP-42 13.2.1)

		lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)	tons = average vehicle weight (provided by source)	$g/m^2 = silt \log ding value for paved roads at iron and steel production facilities - Table 13.2.1-3)$
	PM <sub>2.5</sub>	0.00054	23.6	9.7
	PM <sub>10</sub>	0.0022	23.6	5.6
	PM	0.011	23.6	9.7
•		where k ≖	* A	sl. =

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Een = E \* [1 - (p/4N)] (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor,  $E_{ext} = Ef * [1 - (p/4N)]$ 

	days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2 for Muncie, IN)	days per year	
	130	365	
•	where p ≔	II Z	

[		Ib/mile	lb/mile	(pursuant to control measures outlined in fugitive dust control plan)
	PM <sub>2.5</sub>	0.1075	0.0979	%0
	PM <sub>10</sub>	0.438	0.399	%0
	PM	2,190	1.995	%0
		Unmitigated Emission Factor, Ef=	Mitigated Emission Factor, E <sub>ext</sub> =	Dust Control €fficiency ==

	0.02	00.0	50.0		(tons/yr)
	700		0.36	0.07	0.02
	10.0	0.00	0.18	0.04	0,01
ביני המזי המווה וומרא	0.20	0.05	4.37	0.87	0.21
EAF Dust PD Trucks 0.04	0.01	0.00	0.18	0.04	0.01
Product Trucks	2.18	0.54	10.92	2.18	0.54
Total Potential Emissions 12.09	2.42	0.59	16.02	3.20	0.79

### Methodology

= SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)] = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)] = [Maximum trips per year (trip/day)] \* [Maximum one-way distance (mi/trip)] = [Maximum Weight Loaded (tons/trip)] \* [Maximum trips per day (trip/day)] = [Maximum one-way distance (feet/trip) / [5280 ft/mile] Average Vehicle Weight Per Trip (ton/trip) Witigated PTE (Before Control) (tons/yr) Total Weight driven per day (ton/day) Maximum one-way distance (mi/trip) Maximum one-way miles (miles/day) Average Miles Per Trip (miles/trip) Unmitigated PTE (tons/yr)

 $PM_{10} = Particulate Matter (<10 um)$ PM<sub>2.5</sub> = Particle Matter (<2.5 um) PM = Particulate Matter Abbreviations

PTE = Potential to Emit

Mitigated PTE (After Control) (tons/yr)

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

Identification User Identification: City: State: Company: Type of Tank: Description:	TANK1 Indianapolis Indiana WSP Vertical Fixed Roof Tank Diesel Fuel Storage Tank
Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gallyr): Is Tank Heated (y/n):	11.95 11.95 11.92 11.90 10.000.00 10.20 102,000.00 N
Paint Characteristics Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:	White/White Good White/White Good
Roof CharacterIstics Type: Height (ft) Radius (ft) (Dome Roof)	Dome 4.00 11.95
Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)	-0.03 0.03

Meterological Data used in Emissions Calculations: Indianapolis, Indiana (Avg Atmospheric Pressure = 14.33 psia)

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

TANK1 - Vertical Fixed Roof Tank Indianapolis, Indiana

The state of the s		~~~											
					Liquid								
			ily Liquid S		Bulk				Vapor	Liquid	Vapor		
		Tum	perature (de	ng F)	Temp	Vapo	er Pressure	(psia)	Mol.	Mass	Mass	Mol.	Basis for Vapor Pressure
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight	Calculations
Distillate fuel oil no. 2	All	54,01	48.91	59.11	52,28	0,0053	0.0043	0,0063	130,0000			188,00	Option 1: VP50 = .0045 VP60 = .0065

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

### TANK1 - Vertical Fixed Roof Tank Indianapolis, Indiana

Standing Losses (fb);	
	0.4285
Vapor Space Volume (cu fi):	263,4318
Vapor Density (lb/cu ft):	0.0001
Vapor Space Expansion Factor:	0.0357 0.9993
Vented Vapor Saturation Factor:	0.9993
Tank Vapor Space Volume:	000 1040
Vapor Space Volume (cu ft):	263,4318
Tank Diameter (ft):	11.9500 2.3488
Vapor Space Outage (ft):	11,9500
Tank Shell Height (ft): Average Liquid Height (ft):	11,9000
Roof Outage (R):	2.2988
Roof Outage (Dome Roof)	
Roof Outage (ft):	2,2986
Dome Radius (ft):	11.9500
Shell Radius (R):	5,9750
Vapor Density	
Vapor Density (lb/cu ft):	0.0001
Vapor Molecular Weight (Ib/lb-mole):	130,0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0053
Daily Avg, Liquid Surface Temp. (deg. R):	513.6827
Daily Average Ambient Temp. (deg. F):	52.2583
Ideal Gas Constant R	10,731
(psia cuft / (lb-mol-deg R)): Liquid Bulk Temperature (deg, R):	511,9483
Tank Paint Solar Absorptance (Shell):	0.1700
Tank Paint Solar Absorptance (Roof):	0.1700
Daily Total Solar Insulation	5.114
Factor (Stufsqft day):	1,297.9518
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0357
Daily Vapor Temperature Range (deg. R):	20.3982
Dally Vapor Pressure Range (psia):	0.0026
Breather Vent Press, Setting Range(psla): Vapor Pressure at Oally Average Liquid	0.0600
Surface Temperature (psis):	0.0053
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0043
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0,0063
Daily Avg. Liquid Surface Temp. (deg R):	513.682
Daily Min, Liquid Surface Temp, (deg R):	508,583
Daily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R):	518.782 19,750
	,5,100
Vented Vapor Saturation Factor	9.000
Vented Vapor Saturation Factor:	0.999
Vapor Pressure at Daily Average Liquid:	0.005
Surface Temperature (psia): Vapor Space Outege (R):	2.348
Working Losses (lb):	1.674
Vapor Molecular Weight (Ib/lb-mole):	130,000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0,005
Annual Net Throughput (gal/yr.):	102,000.000
Annual Turnovers:	10,200
Turnover Factor:	1.000
Maximum Liquid Voluma (gal):	10,000,000
Maximum Liquid Height (R):	11.920
Tank Diameter (ft):	11.950
Working Loss Product Factor:	1.000
=	

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

### **Emissions Report for: Annual**

TANK1 - Vertical Fixed Roof Tank Indianapolis, Indiana

	Losses(lbs)							
Components	Working Loss	Breathing Loss	Total Emissions					
Distillate fuel oil no. 2	1.67	0.43	2.10					

Dept of Environmeral Management



nip Manager - Print Your Label(s)

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