AL#13457 \$33-48021-00002



Received State of Indiana

JUL 01 2024 Dept of Environmental Manik Office of Air Quality

Significant Permit Modification For Part 70 Permit T133-33667-00002

Submitted By: Lone Star Industries, Inc. dba Buzzi Unicem USA 3301 S. County Road 150 West Greencastle, IN 46135

Submitted To: Indiana Department of Environmental Management Office of Air Quality Air Permits Administration 100 North Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251

June 2024



Buzzi Unicem USA

June 27, 2024

Indiana Department of Environmental Management Office of Air Quality – Air Permitting Group 100 N. Senate Avenue – IGCN 1003 Indianapolis, IN 46204

Re: Lone Star Industries, Inc., dba Buzzi Unicem USA Significant Permit Modification Part 70 Permit: T133-41298-00002 Greencastle, IN – Putnam County

Dear Air Permitting Group,

Lone Star Industries, Inc. is submitting the following application to add a new Clinker Storage Silo system and a Clinker Reclaim system in our permit. These new units will tie directly in to our existing Clinker Storage Silo system.

There is no increase in throughput and the existing throughput limits should serve to address emissions from the new units as well.

If you have any questions or need any additional information, please feel free to contact me at 765-655-0428 / miriam.press@buzziunicemusa.com

Sincerely, Lone Star Industries, Inc.

Miria Meso

Miriam Press Environmental Engineer

cc: Tim Menke; Plant Manager Paul Schell; Senior Corporate Environmental Manager

Buzzi Unicem USA Greencastle Plant 3301 S. County Road 150 Greencastle, IN 46135



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June 2024



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ATTACHMENT A - SUPPORTING EMISSION CALCULATION TABLES

Lone Star Industries Inc. dba Buzzi Unicem USA Greencastle, Indiana June 2024

1.0 Introduction

This Part 70 Operating Permit Significant Modification Application (Application) is being submitted to the Indiana Department of Environmental Management (IDEM), Office of Air Quality – Air Permits Administration to request a permit modification of the Part 70 Operating Permit T133-33667-00002 issued to Lone Star Industries, Inc. dba Buzzi Unicem USA (Lone Star), for their Portland cement manufacturing plant located in Greencastle, Indiana.

Lone Star is requesting a permit modification to construct a new clinker storage silo with associated conveyors and a hopper. The proposed changes will include the addition of eight new sources, each with a corresponding baghouse to control particulate emissions. Pursuant to 326 IAC 2-7-12(b)(1), these proposed changes require a permit modification.

Lone Star Industries Inc. dba Buzzi Unicem USA Greencastle, Indiana June 2024

2.0 Project Description

Lone Star is proposing to construct a new clinker storage silo directly east of the existing clinker storage silos to allow for additional operational flexibility in the quantity of clinker that can be stored at any one time as well as reduce the amount of clinker stored outside and subsequently re-introduced to the silos through the existing outside clinker reclaim system. No increase in the production throughput of clinker is proposed for this project, it is simply to allow for greater storage capabilities and to protect the clinker quality.

The new equipment and modifications associated with the project include the new clinker storage silo itself and new conveyor belts to feed clinker to, and transfer clinker from, the silo to the Finish Mills. All equipment associated with the project will be equipped with baghouses for the control of particulate emissions.

The following is an overview of the proposed changes:

- Silo 8 (nominal capacity 50,000 tons) will be installed to store clinker in addition to the existing Silos 1-7 (nominal capacity 5,000 tons each).
- Existing Belt 510V which currently transfers clinker to the existing Silos 1-7 will be extended to transfer clinker to a new bucket conveyor, Belt GC509723. The transfer point from Belt 510V to Belt GC509723 will be equipped with Baghouse GC509715.
- Belt GC509273 will be installed to transfer the clinker from Belt 510V into Silo 8. The transfer point from the bucket conveyor into the silo will be equipped with Baghouse GC509801.
- Two parallel pan conveyors, Belt GC509773 (south) and Belt 509785 (north), will be installed in a tunnel constructed below Silo 8 to transfer clinker out of Silo 8. There will be two pick-up points for each conveyor, one on the west side of the silo and one on the east side of the silo. Each pickup point will have a separate baghouse.
 - For Belt GC509773, the west side pickup point will be equipped with Baghouse GC509767 and the east side pickup point will be equipped with Baghouse GC509769.
 - For Belt GC509785, the west side pickup point will be equipped with Baghouse GC509787 and the east side pickup point will be equipped with Baghouse GC509789.
- Belt GC509749 will be installed to transfer clinker from both Belts GC509773 and GC509785 to existing Belt 511V. The transfer point to Belt GC509749 will be equipped with Baghouse GC509729.
- Existing Belt 511V which transfers clinker from the existing silos to the finish mills will be extended to pick up clinker from Belt GC509749. The pickup point onto Belt 511V will be equipped with Baghouse GC509737.

The project also includes small clinker reclaim system which will be added to allow clinker to be returned directly to the finish mills for processing when necessary. This

system includes a hopper and a feeder belt and will discharge to Belt 509749. The hopper system will be equipped with Baghouse GC509805 to keep all equipment under negative pressure to control fugitive dust emissions.

Table 1 below provides a list of the new emission units proposed to be added associated with the project and their associated baghouses.

| Stack ID | Emission Unit ID | Baghouse | Description | Flowrate (ACFM) |
|----------|---------------------|----------|--|--------------------|
| FF3-40 | 3-40 | GC509715 | BELT 510V TRANSFER TO BELT GC509723 | 3,500 |
| FF3-41 | 3-41 | GC509801 | BELT GC509273 TRANSFER INTO SILO 8 | 15,000 |
| FF3-42 | 3-42 | GC509767 | WESTERN SILO 8 TRANSFER TO BELT GC509773 | 850 |
| FF3-43 | 3-43 | GC509769 | EASTERN SILO 8 TRANSFER TO BELT GC509773 | 850 |
| FF3-44 | 3-44 | GC509787 | WESTERN SILO 8 TRANSFER TO BELT GC509785 | 850 |
| FF3-45 | 3-45 | GC509789 | EASTERN SILO 8 TRANSFER TO BELT GC509785 | 850 |
| FF3-46 | 3-46 | GC509729 | BELTS GC509773 AND GC509785 TRANSFER TO BELT GC509749 | 5,700 |
| FF3-47 | 3-47 | GC509737 | BELT GC509749 TO BELT 511V | 2,300 |
| FF3-48 | 3-48 | GC509805 | RECLAIM HOPPER GC509755 TO BELT GC509743 TO BELT GC509749 | 8,000 |

Table 1 - Emission Units to be Added

The new clinker silo will have a nominal storage capacity of 50,000 tons. The annual throughput of the new clinker silo is expected to be 1,500,000 tons/year. The new silo is intended to reduce or eliminate the necessity for storing clinker outside, thereby reducing fugitive emissions from transfer in / transfer out activities and also improving the quality of stored clinker. There is no proposed increase in total clinker production or throughput associated with the project. The existing PSD limits for clinker production and clinker input to the finish mills should provide adequate assurance for the units proposed in this project as well.

Lone Star is proposing to begin construction by November 2024 and complete construction by March 2026. Lone Star may begin operation of the transfer in and storage only operations of the new Silo 8 during the December 2025 – January 2026 timeframe if needed rather than store clinker outside.

Lone Star Industries Inc. dba Buzzi Unicem USA Greencastle, Indiana June 2024

3.0 IDEM Forms

Per the IDEM Air Permits webpage, this section of the Application includes the following IDEM forms for the proposed modification.

- IDEM Form 50639 (COVER) Application Cover Sheet
- IDEM Form 51607 (Checklist) Forms Checklist
- IDEM Form 50640 (GSD-01) Basic Source Level Information
- IDEM Form 51605 (GSD-02) Plant Layout Diagram
- IDEM Form 51599 (GSD-03) Process Flow Diagram
- IDEM Form 51606 (GSD-04) Stack/Vent Information
- IDEM Form 51610 (GSD-05) Emission Unit Information
- IDEM Form 51612 (GSD-06) Particulate Emissions Summary
- IDEM Form 52543 (PI-03) Bulk Handling Storage
- IDEM Form51904 (CE-01) Control Equipment Summary
- IDEM Form 51953 (CE-02) Particulate Control Baghouse/Fabric Filter
- IDEM Form 53512 (FED-1) Summary of Federal Requirements NSPS & NESHAP
- IDEM Form 51905 (FED-02) MACT Pre-Construction Review
- IDEM Form 51861 (CD-01) Emission Unit Compliance Status
- IDEM Form 51864 (CD-04) Compliance Schedule and Certification

| | AIR PERMII A State Form 50639 (R4 / INDIANA DEPARTM | PPLICATION COVER SH 1-10) IENT OF ENVIRONMENTAL MAN/ 13457 | IEET Agement | IDEM – Off 100 N. Sei Ir Te Toll Free: 1- Facs | ice of Air Quality – Permits Branch nate Avenue, MC 61-53 Room 1003 Idianapolis, IN 46204-2251 Iephone: (317) 233-0178 or 800-451-6027 x30178 (within Indiana) Imile Number: (317) 232-6749 www.IN.gov/idem |
|---|---|---|---|--|--|
| NOTES: | The purpose of the process the air purpose of the permit application top of all subseque permit application | his cover sheet is to obtain the core ermit application. This cover sheet in s submitted to IDEM, OAQ. Place uent forms and attachments that end a packet. | information needed to s required for <u>all</u> air this cover sheet on compass your air | PERMIT NUM | OR OFFICE USE ONLY IBER: 4802 00000 |
| | Submit the comp attachments, to II the upper right has | leted air permit application packet, in DEM Air Permits Administration un and corner of this page. | ncluding all forms and sing the address in | DATE | CATION WAS RECEIVED: |
| | IDEM will send a | bill to collect the filing fee and any c | other applicable fees. | | JUL 01 2024 |
| | Detailed instruction Application Form | ons for this form are available on the s website. | e Air Permit | Į | Dept of Environmental Mgmt |
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Anne -

| | PART B: Pre-Application Meeting | | | | | | |
|-----|--|-------------|--|--|--|--|--|
| Pa | rt B specifies | whether a | a meeting was held or is being requested to discuss the permit application. | | | | |
| 9. | 9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project? | | | | | | |
| | 🛛 No | Yes: | Date: | | | | |
| 10. | Would you like project? | to schedule | a meeting with IDEM management and your permit writer to discuss the details of this | | | | |
| | No No | Yes: | Proposed Date for Meeting: | | | | |

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as Confidential Business Information?

🛛 No 🛛 🗌 Yes

 \boxtimes

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.

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).

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

| Tim Menke | Plant Manager |
|--------------|---------------|
| Name (typed) | Title |
| | |
| | 6/25/2024 |
| Signature | Date |



OAQ AIR PERMIT APPLICATION – FORMS CHECKLIST State Form 51607 (R5 / 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 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.
- 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 A: General Source Data | | | | | |
|-----------------------------|-----------|--------------------------------------|----------------------|--|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? | |
| XY DN | COVER | Application Cover Sheet | 50639 | Include for every application, modification, and renewal, including source specific operating agreements (SSOA). | |
| | 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. | |
| XY DN | GSD-02 | Plant Layout Diagram | 51605 | Include for every new source application, and modification. | |
| ⊠Y □n | GSD-03 | Process Flow Diagram | 51599 | Include one for every process covered by the application. | |
| X IN | GSD-04 | Stack / Vent Information | 51606 | Include for every new source application, and modification. | |
| XY DN | GSD-05 | Emissions Unit Information | 51610 | Include for every process covered by the application. | |
| XY DN | GSD-06 | Particulate Emissions Summary | 51612 | Include if the process has particulate emissions (PM). | |
| | 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). | |
| | GSD-09 | Summary of Additional Information | 51611 | Include if the additional information is included. | |
| | GSD-10 | Insignificant Activities | 51596 | Include if there are unpermitted insignificant activities. | |
| | GSD-11 | Alternative Operating Scenario | 51601 | Include if an AOS is requested. | |
| | GSD-12 | Affidavit of Nonapplicability | 51600 | Include if the standard notification requirements do not apply. | |
| | GSD-13 | Affidavit of Applicability | 51603 | Include if the standard notification requirements apply. | |
| | GSD-14 | Owners and Occupants Notified | 51609 | Include if the standard notification requirements apply. | |
| | GSD-15 | Government Officials Notified | 51608 | Include if the standard notification requirements apply. | |
| | RENEWAL | Renewal Checklist | 51755 | Include with every operating permit renewal packet. | |

| | Part B: Process Information | | | | | |
|-------------|-----------------------------|---|----------------------|--|--|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? | | |
| □Y ⊠N | AEF-01 | Alternate Emission Factor Request | 51860 | Submit if you are requesting to use an emission factor other than AP-42. | | |
| □Y ⊠N | PI-01 | Miscellaneous Processes | 52534 | Include one form for each process for which there is not a specific PI form. | | |
| | PI-02A | Combustion Unit Summary | 52535 | Include one form to summarize all combustion units (unless SSOA). | | |
| | PI-02B | Combustion: Boilers, Process Heaters, & Furnaces | 52536 | Include one form for each boiler, process heater, or furnace (unless SSOA). | | |
| OY N | PI-02C | Combustion: Turbines & Internal Combustion Engines | 52537 | Include one form for each turbine or internal combustion engine (unless SSOA). | | |
| □y ⊠n | PI-02D | Combustion: Incinerators & Combustors | 52538 | Include one form for each incinerator or combustor (unless SSOA). | | |
| | PI-02E | Combustion: Kilns | 52539 | Include one form for each kiln (unless SSOA). | | |
| | PI-02F | Combustion: Fuel Use | 52540 | Include one form for each combustion unit (unless SSOA). | | |
| | PI-02G | Combustion: Emission Factors | 52541 | Include one form for each combustion unit (unless SSOA). | | |
| DY ØN | PI-02H | Combustion: Federal Rule Applicability | 52542 | Include one form for each combustion unit (unless SSOA). | | |
| ⊠Y □N | PI-03 | Storage and Handling of Bulk Material | 52543 | Include if the process involves the storage and handling of bulk materials. | | |
| | PI-04 | Asphalt Plants | 52544 | Include for each asphalt plant process (unless general permit). | | |
| | PI-05 | Brick / Clay Products | 52545 | Include for each brick and/or clay products process. | | |
| | PI-06 | Electroplating Operations | 52546 | Include for each electroplating process. | | |
| | PI-07 | Welding Operations | 52547 | Include for each welding process. | | |
| □Y ⊠N | PI-08 | Concrete Batchers | 52548 | Include for each concrete batcher (unless SSOA). | | |
| □Y ⊠N | PI-09 | Degreasing | 52549 | Include for each degreasing process (unless SSOA). | | |
| □Y ⊠N | PI-10 | Dry Cleaners | 52550 | Include for each dry cleaning process | | |
| □Y ⊠N | PI-11 | Foundry Operations | 52551 | Include for each foundry process | | |
| | PI-12 | Grain Elevators | 52552 | Include for each grain elevator (unless SSOA). | | |
| | PI-13 | Lime Manufacturing | 52553 | Include for each lime manufacturing process. | | |
| | PI-14 | Liquid Organic Compound Storage | 52554 (doc) | Include if the process involves the storage of liquid organic compounds. | | |
| □y ⊠n | 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. | | |
| | PI-15 | Portland Cement Manufacturing | 52556 | Include for each Portland cement manufacturing process. | | |
| | PI-16 | Reinforced Plastics & Composites | 52557 | Include for each reinforced plastics and composites process. | | |

| Part B: Process Information | | | | | |
|-----------------------------|---------|---------------------------------------|----------------------|--|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? | |
| | PI-17 | Blasting Operations | 52558 | Include for each blasting process (unless SSOA). | |
| □y ⊠n | PI-18 | Mineral Processing | 52559 | Include if the process involves mineral processing (unless SSOA). | |
| | PI-19 | Surface Coating & Printing Operations | 52560 | Include for each surface coating or printing process (unless SSOA). | |
| DY MN | PI-20 | Woodworking / Plastic Machining | 52561 | Include for each woodworking or plastic machining process (unless SSOA). | |
| | PI-21 | Site Remediation | 52570 | Include for each soil remediation process. | |
| | PI-22 | Ethanol Plants (Under Development) | None | Include for each ethanol plant. | |

| Part C: Control Equipment | | | | | | |
|---------------------------|---------|---|----------------------|---|--|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? | | |
| XY DN | CE-01 | Control Equipment Summary | 51904 | Include if add-on control equipment will be used for the process. | | |
| XY DN | CE-02 | Particulates – Baghouse / Fabric Filter | 51953 | Include for each baghouse or fabric filter. | | |
| | CE-03 | Particulates – Cyclone | 52620 | Include for each cyclone. | | |
| | CE-04 | Particulates - Electrostatic Precipitator | 52621 | Include for each electrostatic precipitator. | | |
| DY ØN | CE-05 | Particulates – Wet Collector / Scrubber / Absorber | 52622 | Include for each wet collector, scrubber, or absorber. | | |
| □Y ⊠N | CE-06 | Organics – Flare / Oxidizer / Incinerator | 52623 | Include for each flare, oxidizer, or incinerator. | | |
| □Y ⊠N | CE-07 | Organics – Adsorbers | 52624 | Include for each adsorber. | | |
| | CE-08 | Organics – Condenser | 52625 | Include for each condenser. | | |
| | CE-09 | Reduction Technology | 52626 | Include for each control device using reduction technology (e.g., SCR, SNCR). | | |
| | CE-10 | Miscellaneous Control Equipment | 52436 | Include one form for equipment for which there is not a specific CE form. | | |

| | Part D: Compliance Determination for Part 70 Sources | | | | | | |
|-------------|--|--|----------------------|---|--|--|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? | | | |
| X IN | CD-01 | Emissions Unit Compliance Status | 51861 | Include for every Title V application, including modifications. | | | |
| □y ⊠n | CD-02 | Compliance Plan by Applicable Requirement | 51862 | Include for every Title V application, including modifications. | | | |
| | CD-03 | Compliance Plan by Emissions Unit | 51863 | Include for every Title V application, including modifications. | | | |
| ⊠Y □N | CD-04 | Compliance Schedule and Certification | 51864 | Include for every Title V application, including modifications and renewal. | | | |
| □Y ⊠N | FED-03 | Compliance Assurance Monitoring | 53377 | Include for every Title V application, including modifications. | | | |

.....

| | Part E: Best Available Control Technology | | | | | | |
|-------------|---|--|----------------------|---|--|--|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? | | | |
| DY 🛛 N | BACT-01 | Analysis of Best Available Control Technology | None | Include for every BACT application. | | | |
| DY ØN | BACT-01a | Background Search: Existing BACT Determinations | None | Include for every BACT application. | | | |
| | BACT-01b | Cost/Economic Impact Analysis | None | Include for every BACT application. | | | |
| □y ⊠n | BACT-02 | Summary of Best Available Control Technology | None | Include for every BACT application. | | | |
| □y ⊠n | PSD / EO-01 | PSD / Emission Offset Checklist | None | Include for every PSD application and every NSR application that requires emission offsets. | | | |

| Part F: Emission Credit Registry | | | | |
|----------------------------------|---------|--------------------------------|----------------------|---|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? |
| DY N | EC-01 | Generation of Emission Credits | 51783 | Include if the modification results in emission reductions. |
| □y ⊠n | EC-02 | Transfer of Emission Credits | 51784 | Submit whenever registered emission credits are transferred. |
| | EC-03 | Use of Emission Credits | 51785 | Include if the modification requires the use of emission credits for offsets. |
| | EC-04 | Emission Credit Request | 51906 | Submit if you are looking for emission credits for offsets. |

| Part G: Plantwide Applicability Limits | | | | |
|--|---------|---|----------------------|---|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? |
| | PAL-01 | Actuals Plantwide Applicability Limit | 52451 | Include if the modification results in emission reductions. |
| | PAL-02 | Revised Plantwide Applicability Limit | 52452 | Submit whenever registered emission credits are transferred. |
| | PAL-03 | Plantwide Applicability Limit Renewal | 52453 | Include if the modification requires the use of emission credits for offsets. |
| DY N | PAL-04 | Request for Termination of Plantwide Applicability Limit | 52454 | Submit if you are looking for emission credits for offsets. |

| Part H: Air Toxics | | | | |
|--------------------|------------|--|----------------------|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? |
| ⊠Y □N | 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. |
| ⊠Y □N | FED-02 | MACT Pre-Construction Review | 51905 | Include if constructing or modifying a process subject to a Part 63 NESHAP. |
| □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. |

| Part I: Special Permits | | | | |
|-------------------------|----------|-------------------------------|----------------------|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? |
| □Y ⊠N | INTERIM | Interim Approval | None | Submit if you are applying for interim operating approval. |
| □Y ⊠N | ASPHALT | Asphalt General Permit | None | Submit if you are applying for or modifying an asphalt plant general permit. |
| □y ⊠n | NOXBTP | NO _x Budget Permit | None | Submit if you are a power plant or if you have opted in to the NO _x budget trading program. |
| □Y ⊠N | ACIDRAIN | Phase 2 Acid Rain Permit | None | Submit if you are applying for, modifying, or renewing a Phase 2 Acid Rain permit. |

| Part J: Source Specific Operating Agreements (SSOA) | | | | | |
|---|---------|---|----------------------|---|--|
| Applicable? | Form ID | Title of Form | State Form Number | When should this form be included in my application packet? | |
| DY ØN | OA-01 | Summary of Application and Existing Agreements | 53438 | Submit if you are applying for or modifying a Source Specific Operating Agreement. | |
| OY ØN | OA-02 | Industrial / Commercial Surface Coating Operations -OR- Graphic Arts Operations (326 IAC 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 graphic arts operations not subject to 326 IAC 8-5-5. | |
| DY ØN | 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 operations. | |
| | OA-04 | Woodworking Operations (326 IAC 2-9-4) | 53441 | Submit if you are applying for or modifying a SSOA for woodworking operations. | |
| | OA-05 | Abrasive Cleaning Operations (326 IAC 2-9-5) | 53442 | Submit if you are applying for or modifying a SSOA for abrasive cleaning operations. | |
| | OA-06 | Grain Elevators (326 IAC 2-9-6) | 53443 | Submit if you are applying for or modifying a SSOA for grain elevators. | |
| DY N | 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 plants. | |
| □y ⊠n | OA-08 | Crushed Stone Processing Plants (326 IAC 2-9-8) | 53445 | Submit if you are applying for or modifying a SSOA for crushed stone processing plants. | |
| □y ⊠n | OA-09 | Ready-Mix Concrete Batch Plants (326 IAC 2-9-9) | 53446 | Submit if you are applying for or modifying a SSOA for ready-mix concrete batch plants. | |
| | 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 preparation plants. | |
| DY N | OA-11 | Automobile Refinishing Operations (326 IAC 2-9-11) | 53448 | Submit if you are applying for or modifying a SSOA for automobile refinishing operations. | |
| DY N | OA-12 | Degreasing Operations (326 IAC 2-9-12) | 53449 | Submit if you are applying for or modifying a SSOA for degreasing operations. | |
| | OA-13 | External Combustion Sources (326 IAC 2-9-13) | 53450 | Submit if you are applying for or modifying a SSOA for external combustion sources. | |
| □y ⊠n | OA-14 | Internal Combustion Sources (326 IAC 2-9-14) | 53451 | Submit if you are applying for or modifying a SSOA for internal combustion sources. | |



OAQ GENERAL SOURCE DATA APPLICATION GSD-01: Basic Source Level Information State Form 50640 (R5 / 1-10) INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

JUL 01 2024

Dept of Environmental Mgmt

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-01 is the provide essential information about the entire source of air pollutant emissions. GSD-01 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
 public inspection.

| PART A: Source / Company Location Information | | | | |
|--|--|--|--|--|
| Source / Company Name: Lone Star Industries, Inc. dba Buzzi Unicem USA Plant ID: 133 – 00002 | | | | |
| 3. Location Address: 3301 South County Road 150 West | - | | | |
| City: Greencastle | State: IN ZIP Code: 46135 – | | | |
| 4. County Name: Putnam | 5. Township Name: Greencastle | | | |
| 6. Geographic Coordinates: | | | | |
| Latitude: 39.615907 | Longitude: -86.869086 | | | |
| 7. Universal Transferal Mercadum Coordinates (if known | n): | | | |
| Zone: 16 Horizontal: 511 | l km Vertical: 4385 km | | | |
| 8. Adjacent States: Is the source located within 50 miles of | f an adjacent state? | | | |
| □ No 🛛 Yes – Indicate Adjacent State(s): 🖾 Illinois (IL) | Michigan (MI) Ohio (OH) Kentucky (KY) | | | |
| 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): 🔤 C | CO Pb NO _x O ₃ PM PM ₁₀ PM _{2.5} SO ₂ | | | |
| 10. Portable / Stationary: Is this a portable or stationary sou | irce? 🗌 Portable 🛛 Stationary | | | |
| DART Ri Souvoo Summaau | | | | |
| 11. Company Internet Address (optional): | | | | |
| 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. 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. | | | | |
| 🛛 Not Applicable 🗌 No 🗌 Yes – Complete I | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. | | | |
| Not Applicable No Yes – Complete I 14. Existing Approvals: Have any exemptions, registrations | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. , or permits been issued to this source? | | | |
| ☑ Not Applicable ☑ No ☑ Yes - Complete I 14. Existing Approvals: Have any exemptions, registrations ☑ No ☑ Yes - List these permits and their correspondence | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. , or permits been issued to this source? conding emissions units in Part M, Existing Approvals. | | | |
| Not Applicable No Yes – Complete I 14. Existing Approvals: Have any exemptions, registrations No Yes – List these permits and their corresp 15. Unpermitted Emissions Units: Does this source have a | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. , or permits been issued to this source? conding emissions units in Part M, Existing Approvals. ny unpermitted emissions units? | | | |
| Not Applicable No Yes – Complete I 14. Existing Approvals: Have any exemptions, registrations No Yes – List these permits and their corresp 15. Unpermitted Emissions Units: Does this source have a No Yes – List all unpermitted emissions units | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. , or permits been issued to this source? , onding emissions units in Part M, Existing Approvals. ny unpermitted emissions units? in Part N, Unpermitted Emissions Units. | | | |
| Not Applicable No Yes - Complete I 14. Existing Approvals: Have any exemptions, registrations No Yes - List these permits and their corresp 15. Unpermitted Emissions Units: Does this source have a No Yes - List all unpermitted emissions units 16. New Source Review: Is this source proposing to constru | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. , or permits been issued to this source? conding emissions units in Part M, Existing Approvals. ny unpermitted emissions units? <i>in Part N, Unpermitted Emissions Units.</i> ct or modify any emissions units? | | | |
| ☑ Not Applicable □ No □ Yes - Complete I 14. Existing Approvals: Have any exemptions, registrations ☑ No □ Yes - List these permits and their corresp 15. Unpermitted Emissions Units: Does this source have a ☑ No □ Yes - List all unpermitted emissions units 16. New Source Review: Is this source proposing to construction in ☑ No □ Yes - List all proposed new construction in | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. , or permits been issued to this source? conding emissions units in Part M, Existing Approvals. ny unpermitted emissions units? in Part N, Unpermitted Emissions Units. ct or modify any emissions units? in Part O, New or Modified Emissions Units. | | | |
| Not Applicable No Yes - Complete I 14. Existing Approvals: Have any exemptions, registrations No Yes - List these permits and their corresp 15. Unpermitted Emissions Units: Does this source have a No Yes - List all unpermitted emissions units 16. New Source Review: Is this source proposing to construt No Yes - List all proposed new construction i 17. Risk Management Plan: Has this source submitted a Rist | he portable source be changing in the near future? Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source. , or permits been issued to this source? conding emissions units in Part M, Existing Approvals. ny unpermitted emissions units? in Part N, Unpermitted Emissions Units. ct or modify any emissions units? in Part O, New or Modified Emissions Units. sk Management Plan? | | | |

| PART C: Source Contact Information | | | | | |
|--|---|------------------------------|--|--|--|
| IDEM will send the original, signed permit decises the permit be an employee of the permittee of the permitt | IDEM will send the original, signed permit decision to the person identified in this section. | | | | |
| 18. Name of Source Contact Person: Miriam Press | | | | | |
| 19. Title (optional): Environmental Engineer | | | | | |
| 20. Mailing Address: 3301 South County Road 150 West | 0. Mailing Address: 3301 South County Road 150 West | | | | |
| City: Greencastle | State: IN | ZIP Code : 46135 – | | | |
| 21. Electronic Mail Address (optional): miriam.press@buzz | iunicemusa.com | | | | |
| 22. Telephone Number: (765) 655 – 0428 | 23. Facsimile Number | r (optional): () – | | | |
| | | | | | |
| PART D: Authorized Individual/ | Responsible Official Inf | ormation | | | |
| Individual or Responsible Official is different from t | he Source Contact s | pecified in Part C. | | | |
| 24. Name of Authorized Individual or Responsible Officia | al: Tim Menke | | | | |
| 25. Title: Plant Manager | | | | | |
| 26. Mailing Address: 3301 South County Road 150 West | | | | | |
| City: Greencastle | State: IN | ZIP Code : 46135 – | | | |
| 27. Telephone Number : (765) 653 – 9766 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: Lone Star Industries, Inc. db | a Buzzi Unicem USA | | | | |
| 31. Name of Owner Contact Person: Fabio Rizzi, Sr. VP, | Operations | | | | |
| 32. Mailing Address: 100 Brodhead Road | | | | | |
| City: Bethlehem | State: PA | ZIP Code : 18017 – | | | |
| 33. Telephone Number: (610) 882 – 5000 | 34. Facsimile Number | · (optional): () – | | | |
| 34. Operator: Does the "Owner" company also operate the s | ource to which this appli | cation applies? | | | |
| No – Proceed to Part F below. Yes – Enter "SAME AS OWNER" on line 35 and proceed to Part G below. | | | | | |
| PART F: Opera | tor Information | | | | |
| 35. Company Name of Operator: SAME AS OWNER | | | | | |
| 36. Name of Operator Contact Person: | | | | | |
| 37. Mailing Address: | | | | | |
| City: | State: | ZIP Code: - | | | |
| 8. Telephone Number: () – 39. Facsimile Number (optional): () – | | | | | |

| PART G: Age | nt Information | | | |
|---|---|---------------------------------------|--|--|
| 40. Company Name of Agent: Spectrum Environmental Sc | iences, Inc. | | | |
| 41. Type of Agent: 🛛 Environmental Consultant | 11. Type of Agent: 🛛 Environmental Consultant 🔤 Attorney 📄 Other (specify): | | | |
| 42. Name of Agent Contact Person: Miranda Brown | | | | |
| 43. Mailing Address: 110 Water Street PO Box 46 | 1 | | | |
| City: Thurmont | State: MD | ZIP Code: 21788 – | | |
| 44. Electronic Mail Address (optional): mbrown@s | pectrumenv.com | | | |
| 45. Telephone Number: (240) 446 – 3492 | 46. Facsimile Number | <u>(optional): () –</u> | | |
| Request for Follow-up: Does the "Agent" wish to receiv during the public notice period (if applicable) and a copy | e a copy of the preliminar of the final determination? | y findings 🛛 No 🗌 Yes | | |
| PART H: Local Li | brary Information | | | |
| 48. Date application packet was filed with the local librar | y: Date of Permit Subm | ittal | | |
| 49. Name of Library: Putnam County Library | | | | |
| 50. Name of Librarian (optional): | | | | |
| 51. Mailing Address: 103 E. Poplar Street | | | | |
| City: Greencastle | State: IN | ZIP Code: 46135 - | | |
| 52. Internet Address (optional): | | | | |
| 53. Electronic Mail Address (optional): | T | | | |
| 54. Telephone Number: (765) 653 – 2755 | 55. Facsimile Number | (optional): () – | | |
| PART I: Company Nan Complete this section only if the source has previously opera above in Section A. | ne History (if applicable) nted under a legal name th | hat is different from the name listed | | |
| 56. Legal Name of Company | | 57. Dates of Use | | |
| | | to | | |
| 58. Company Name Change Request: Is the source official on all official documents issued by IDEM, OAQ? No Yes - Change Company Name to: | Ily requesting to change the second | ne legal name that will be printed | | |

PART J: Portable Source Location History (if applicable)

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

| | | (|
|--------------|-------------------------------------|----------------------------|
| 59. Plant ID | 60. Location of the Portable Source | 61. Dates at this Location |
| <u> </u> | - | to |
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| PART K: Request to Change Location of Portable Source (if applicable) | | | | |
|---|-------------------------------|--|--|--|
| Complete this section to request a change of lo | cation for a portable source. | | | |
| 62. Current Location: | · · · · · | | | |
| Address: | | | | |
| City: | City: State: ZIP Code: - | | | |
| County Name: | | | | |
| 63. New Location: | | | | |
| Address: | | | | |
| City: State: ZIP Code: - | | | | |
| County Name: | | | | |

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| P/ | ART L: Source Process Description | on | | |
|--|-----------------------------------|--------------|---------------------------------------|--|
| Complete this section to summarize the main processes at the source. | | | | |
| 64. Process Description | 65. Products | 66. SIC Code | 67. NAICS Code | |
| Portland Cement Manufacturing | Portland Cement | 3241 | 32731 | |
| | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | |
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| | PART M: Existing Approvals (if applicable) | |
|------------------|---|-----------------------------------|
| Complete this se | ection to summarize the approvals issued to the source since issuar | nce of the main operating permit. |
| 68. Permit ID | 69. Emissions Unit IDs | 70. Expiration Date |
| | Administrative amendment approved 09/08/2022 | |
| | | |
| ····· | | |
| | | |
| | | |
| | | |

| PART N: Unpermitted Emissions Units (if applicable) | | | | | | | |
|---|----------------------------|-----------------------|---------------------------|--------------------|--|--|--|
| 73. Actual Dates | | | | | | | |
| 71. Emissions Unit ID | 72. Type of Emissions Unit | Began Construction | Completed Construction | Began Operation | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| PART O: New or Modified Emissions Units (if applicable) | | | | | | | | | |
|--|--|--------|----------------------------|-----------------------|--------------------------|--------------------|--|--|--|
| Complete this se | Complete this section only if the source is proposing to add new emission units or modify existing emission units. | | | | | | | | |
| | > | 0 | | 78. Estimat | ted Dates | | | | |
| 74. Emissions Unit ID | 75. NEV | 76. MO | 77. Type of Emissions Unit | Begin Construction | Complete Construction | Begin Operation | | | |
| 3-40, 3-41, 3-42, 3-43, 3-44, 3-45, 3-46, 3-47, 2-48 | Y | | Clinker Silo System | 11/1/2024 | 3/1/2026 | 12/1/202 5 | | | |
| 0-40 | | | | | 01111020 | | | | |
| | | | | | | | | | |

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| Pa | an | 6 | of | F |

| State Form 50640 (R | 5/1-1 | 0) | | | Page 6 of 6 |
|---------------------|-------|----|---|------|-------------|
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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.

Part A: Basic Plant Layout

Part A provides IDEM, OAQ with the appropriate information about all buildings and access-limiting features in and around the plant site. **Please use this table as a checklist.** You must provide scaled drawings, with the actual scale shown. All dimensions and units must be clearly indicated with a brief explanation of what is being shown. Include the following (*All measurements should be given in feet.*):

- 1. Building Location and Dimensions
- 2. Property Lines and Access-Limiting Features
- 3. Surrounding Building Location and Dimensions
- 4. X Distances to Property Lines and Access-Limiting Features

6.

- 5. X UTM Location Coordinates
- Compass (pointing North)
- 🛛 Scale

7.

| | | Part B: Stack Information | | | | |
|--------------------------------------|---|--|--|--|--|--|
| Pari ven poir ider follo | Part B provides IDEM, OAQ with the appropriate information about all stacks, roof monitors, control devices, and process vents at the plant site. Please use this table as a checklist. You must show the location of all applicable emission points and include all relevant stack and emissions unit identification numbers for each. In addition, you will need to identify <u>each</u> of these emission points under "Stack Identification" on form GSD-04, Stack/Vent Information. Include the following (<i>All measurements should be in feet.</i>): | | | | | |
| 8. | Exhaust Stacks | | | | | |
| 9. | Process Vents | | | | | |
| 10. | Roof Monitors | 🖾 No Roof Monitors | | | | |
| 11. | Control Devices | No Control Devices | | | | |
| 12. | Interior Vents | □ No Interior Vents □ Doors and Windows (for processes vented inside a building) | | | | |

| | Part C: Roadway Information |
|------------|--|
| Par use | t C provides IDEM, OAQ with the appropriate information about the roadways in and around the plant site. Please • this table as a checklist. Include the following (<i>All measurements should be in feet</i> .): |
| 13. | Adjacent Roadways |
| 14. | Roadway Surface Description (gravel, dirt, paved, etc.) |
| 15. | Number of Lanes |

Part D: Source Building Information

| This table prov table. (<i>All mea</i> | ides detailed informatic asurements should be g | on about eacl viven in feet.) | n building at | the plant site | e that is part of the source. If additional space is neede | ed, you may make a copy of this |
|--|--|----------------------------------|-----------------|------------------|--|--|
| 16. Building | 17. Building | 18. Building Dimensions | | | 19. Distance & direction to the nearest property | 20. Distance & direction to |
| ID | Description | Length (feet) | Width (feet) | Height (feet) | line or access limiting feature (feet & compass coordinate) | the nearest residence (feet & compass coordinate) |
| NA | | | | | | |
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Part E: Surrounding Building / Residence Information

This table provides detailed information about each building or residence surrounding the plant site. If additional space is needed, you may make a copy of this table. (All measurements should be given in feet.)

| 21. Surrounding Building / | 22. Surrou Reside | nding Buildin nce Property | g / Dimensions | 23. Distance & direction to the nearest property line or access | 24. Building ID of nearest building | 25. Distance & direction to the nearest building on |
|---------------------------------------|----------------------|-------------------------------|-------------------|--|---------------------------------------|---|
| Residence Description | Length (feet) | Width (feet) | Height (feet) | limiting feature (feet & compass coordinate) | on the plant site | the plant site (feet & compass coordinate) |
| NA | | | <u></u> | | · · · · · · · · · · · · · · · · · · · | |
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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.





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.IN.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
 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: Process Flow Diagram

Part A provides basic information to understanding the nature of the process. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (*All throughputs should be given in pounds per hour.*):

| 1. | Process Description: | Clinker Silo System | | | | | |
|--|--|---|--|--|--|--|--|
| 2. | 🛛 Process Equipment | 3. 🗌 Raw Material Input 4. 🖾 Process Throughput | | | | | |
| 5. | 5. Additions Deletions Modifications | | | | | | |
| Use the space below to briefly explain the impacts of the additional equipment, the reason for removing any equipment, and/or the reason for the proposed modification. (<i>If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.</i>) | | | | | | | |
| See | See Section 2.0 of the Application for a detailed description of all new equipment being added. The attached process flow diagram identifes all the new equipment for the new clinker silo system. | | | | | | |

| | Part B: Process Operation Schedule | | | | | | | |
|-----|---|-------------------------|----------------------------|----------------------------|--|--|--|--|
| Par | Part B indicates the actual (or estimated actual) hours of operation for the process. | | | | | | | |
| 6. | Process Operation Schedule 24 | Hours per Day <u>7</u> | Days per Week <u>52</u> | Weeks Per Year | | | | |
| | Schodulod Downtime: Use the space | o below to include as n | auch information as is kno | wn about scheduled periods | | | | |

7. Scheduled Downtime: Use the space below to include as much information as is known about scheduled periods of downtime for this process. (If additional space is needed, please attach a separate sheet with the information and indicate in the space below that additional information is attached.) NA

Part C: Emissions Point Information

| Pari tabl sho | Part C provides information about each potential outlet of air pollutant emissions to the atmosphere. Please use this table as a checklist to indicate that you have included the following items on your process flow diagram (<i>All throughputs should be given in pounds per hour.</i>): | | | | | |
|---------------------|--|--|--|--|--|--|
| 8. | Stack / Vent Information | | | | | |
| 9. | Pollutants Emitted | | | | | |
| 10. | Air Pollution Control | | | | | |

Part D: Process Flow Diagram

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.



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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

- NOTES:
- 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.
 - 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.

Stack / Vent Information

This table provides detailed information about each stack or vent through which air pollutants could be released into the atmosphere. If an air stream is vented inside a building, the vent does not need to be listed on this form. If additional space is needed, you may make a copy of this form.

| 1. Stack / Vent ID | tack / 2. Type 3. Shape 4. Outlet ent ID Dimension | | 4. Outlet Dimensions | 5. Height | 6. Maximum Outlet Flow Rate | 7. Outlet Gas Temperature | 8. Related Stacks / Vents |
|-----------------------|---|---------|-------------------------|-----------|--------------------------------|------------------------------|------------------------------|
| | (V H W O) | (C R O) | (feet) | (feet) | (acfm) | (Degrees F) | (B P O) |
| FF3-40 | V | R | 1.3x1.3 | 137.30 | 3531.00 | 68.0 | |
| FF3-41 | V | R | 1.3x3.6 | 191.20 | 15009.00 | 68.0 | |
| FF3-42 | Н | С | 0.66 | -2.00 | 850.00 | 68.0 | |
| FF3-43 | H | С | 0.66 | -2.00 | 850.00 | 68.0 | |
| FF3-44 | Н | С | 0.66 | -2.00 | 850.00 | 68.0 | |
| FF3-45 | Н | С | 0.66 | -2.00 | 850.00 | 68.0 | |
| FF3-46 | V | R | 1.3x1.6 | 25.00 | 5709.00 | 68.0 | |
| FF3-47 | V | R | 1.3x1 | 22.60 | 2295.00 | 68.0 | |
| FF3-48 | V | R | 1.3x2.6 | 26.60 | 8005.00 | 68.0 | |
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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.

| 1. Unit ID | 2. Model Number | 3. Serial Number | 4. Description | 5. Manufacturer | 6. Installation Date | 7. Maximum Capacity | 8. Stack / Vent ID |
|---------------|---|---------------------|--|-----------------|-------------------------|------------------------|-----------------------|
| 3-40 | PNF 8x8-3- H-WI (Fabric Filter) | NA | BELT 510V TRANSFER TO BELT GC509723 | Redecam | 11/1/24 | 300.00 TPH | FF3-40 |
| 3-41 | PNF 11x14- 4.5-SW-H (Fabric Filter) | NA | BELT GC509273 TRANSFER INTO SILO 8 | Redecam | 11/1/24 | 300.00 TPH | FF3-41 |
| 3-42 | NA (Fabric Filter) | NA | WESTERN SILO 8 TRANSFER TO BELT GC509773 | DCL | 11/1/24 | 350.00 TPH | FF3-42 |
| 3-43 | NA (Fabric Filter) | NA | EASTERN SILO 8 TRANSFER TO BELT GC509773 | DCL | 11/1/24 | 350.00 TPH | FF3-43 |
| 3-44 | NA (Fabric Filter) | NA | WESTERN SILO 8 TRANSFER TO BELT GC509785 | DCL | 11/1/24 | 350.00 TPH | FF3-44 |
| 3-45 | NA (Fabric Filter) | NA | EASTERN SILO 8 TRANSFER TO BELT GC509785 | DCL | 11/1/24 | 350.00 TPH | FF3-45 |
| 3-46 | PNF 9x9-3- H-WI (Fabric Filter) | NA | BELTS GC509773 AND GC509785 TRANSFER TO BELT GC509749 | Redecam | 11/1/24 | 350.00 TPH | FF3-46 |
| 3-47 | PNF 6x6-3- H-WI (Fabric Filter) | NA | BELT GC509749 TO BELT 511V | Redecam | 11/1/24 | 350.00 TPH | FF3-47 |
| 3-48 | PNF 10x12- 3-H-WI (Fabric Filter) | NA | RECLAIM HOPPER GC509755 TO BELT GC509743 TO BELT GC509749 | Redecam | 11/1/24 | 350.00 TPH | FF3-48 |
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OAQ GENERAL SOURCE DATA APPLICATION GSD-06: Particulate Emissions Summary State Form 51612 (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 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, the application process may be stopped. If additional space is needed, you may make a copy of this table.

| Emis | sions Point | Potential To Emit (tons per year) | | | | | | |
|-------|---|-----------------------------------|----------|-----------|--------|------------------|----------------|-----------|
| 1. ID | 2. Description | 3. PM | 4. PM-10 | 5. PM-2.5 | 6. TSP | 7. Fugitive Dust | 8. Fugitive PM | 9. HAP PM |
| 3-40 | BELT 510V TRANSFER TO BELT GC509723 | 1.31 | 1.12 | 0.39 | | | | |
| 3-41 | BELT GC509273 TRANSFER INTO SILO 8 | 5.63 | 4.79 | 1.69 | | | | |
| 3-42 | WESTERN SILO 8 TRANSFER TO BELT GC509773 | 0.03 | 0.03 | 0.01 | | | | |
| 3-43 | EASTERN SILO 8 TRANSFER TO BELT GC509773 | 0.03 | 0.03 | 0.00 | | | | |
| 3-44 | WESTERN SILO 8 TRANSFER TO BELT GC509785 | 0.03 | 0.03 | 0.01 | | | | |
| 3-45 | EASTERN SILO 8 TRANSFER TO BELT GC509785 | 0.03 | 0.03 | 0.01 | | | | |
| 3-46 | BELTS GC509773 AND GC509785 TRANSFER TO BELT GC509749 | 2.14 | 1.82 | 0.64 | | | | |
| 3-47 | BELT GC509749 TO BELT 511V | 0.86 | 0.73 | 0.26 | | | | |
| 3-48 | RECLAIM HOPPER GC509755 TO BELT GC509743 TO BELT GC509749 | 3.00 | 2.55 | 0.90 | | | | |
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| Part B: Control of Particulate Emissions | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|
| 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. | | | | | | | | | | |
| 10. Emissions Point ID 11. Control Measure 12. Control Measure Description | | | | | | | | | | |
| 3-40 | No Control Dust Suppression | Fabric Filter GC509715, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024. | Yes No Date Submitted: | | | | | | | |
| | Other: <u>Baghouse</u> | | <u>June 2024</u> | | | | | | | |
| 3-41 | No Control Dust Suppression | Fabric Filter GC509801, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 | Yes No No Date Submitted: | | | | | | | |
| | Other: Baghouse | | <u>June 2024</u> | | | | | | | |
| 3-42 | No Control Dust Suppression Other: Baghouse | Fabric Filter GC509767, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 | Yes No Date Submitted: June 2024 | | | | | | | |
| 3-43 | No Control Dust Suppression Other: Baghouse | Fabric Filter GC509769, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 | Yes No Date Submitted: June 2024 | | | | | | | |
| 3-44 | No Control Dust Suppression Other: Baghouse | Fabric Filter GC509787, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 | Yes No Date Submitted: June 2024 | | | | | | | |
| 3-45 | No Control Dust Suppression Other: <u>Baghouse</u> | Fabric Filter GC509789, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 | Yes No Date Submitted: <u>June</u> 2024 | | | | | | | |
| 3-46 | No Control Dust Suppression Other: Baghouse | Fabric Filter GC509729, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 | Yes No Date Submitted: June 2024 | | | | | | | |
| 3-47, | No Control Dust Suppression Other: <u>Baghouse</u> | Fabric Filter GC509737, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 Fabric Filter GC509805, subject to 40 CFR 63 Subpart LLL and operated per the Operations & Maintenance Plan last submitted to IDEM in May 2024 | Yes No Date Submitted: June 2024 | | | | | | | |
| J 3-40 | | I the Operations & Maintenance Flan last submitted to IDEM III May 2024 | 1 | | | | | | | |

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: Fugit | ive Dust (if applicable) | |
|--|----------------------|--------------------|---|--------|
| Part C identifies measures implemented t | or controlling fugit | ive particulate en | issions from process operations and unpaved | roads. |
| 14. Dust Control Plans: Check all that a | pply. | | 15. Control Measures: | |
| 🛛 Conveying: | U Wet | 🖾 Dry | Fabric filters | |
| Stock Piles: | 🗌 Open | Covered | | |
| Unpaved Roads: Watered? | 🗌 Yes | 🗌 No | | |
| Other (specify): | | | | |
| Other (specify): | | | | |
| Other (specify): | | | | |

| | PART D: Vehicular Traf | fic on Unpaved Roa | ds (if applicable) | | |
|--|---|---|--|--|---|
| ormation on vehicular traffic p vay trips equal one round trip. y trip distance. | atterns when the site conta For external traffic (vehic | ains unpaved roads. les entering and leavi | All data should be provided a ng the property lines), the dia | assuming peak stance from the | hours of vehicular plant to the property |
| Content of Unpaved | | | | | |
| 18. Max. No. round trips at peak hours (trips/hr) | 19. Distance of one- way trip (miles/trip) | 20. Max. vehicle speed (mph) | 21. Max. gross vehicle weight (fully loaded) (tons) | 22. Tare weight (tons) | 23. No. of wheels on vehicle (wheels) |
| | | Non-11-11-11-11-11-11-11-11-11-11-11-11-11 | | | |
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| | ormation on vehicular traffic p /ay trips equal one round trip. / trip distance. Content of Unpaved 18. Max. No. round trips at peak hours (trips/hr) | PART D: Vehicular Traf prmation on vehicular traffic patterns when the site conta (ay trips equal one round trip. For external traffic (vehic / trip distance.) Content of Unpaved 18. Max. No. round trips at peak hours (trips/hr) (trips/hr) | PART D: Vehicular Traffic on Unpaved Roa prmation on vehicular traffic patterns when the site contains unpaved roads. /ay trips equal one round trip. For external traffic (vehicles entering and leavi / trip distance. Content of Unpaved 18. Max. No. round trips at peak hours (trips/hr) 19. Distance of one-way trip (miles/trip) 20. Max. vehicle speed (mph) (trips/hr) 19. Distance of one-way trip (miles/trip) 20. Max. vehicle speed (mph) | PART D: Vehicular Traffic on Unpaved Roads (if applicable) primation on vehicular traffic patterns when the site contains unpaved roads. All data should be provided a ray trips equal one round trip. For external traffic (vehicles entering and leaving the property lines), the dis / trip distance. Content of Unpaved 19. Distance of one-way trip (miles/trip) 20. Max. vehicle speed (mph) 21. Max. gross vehicle weight (fully loaded) (tons) (trips/hr) (miles/trip) (mph) (tons) (tons) | PART D: Vehicular Traffic on Unpaved Roads (if applicable) prmation on vehicular traffic patterns when the site contains unpaved roads. All data should be provided assuming peak I ray trips equal one round trip. For external traffic (vehicles entering and leaving the property lines), the distance from the / trip distance. Content of Unpaved For external traffic on 0 reway trip at peak hours (trips/hr) 19. Distance of one-way trip (miles/trip) 20. Max. vehicle speed (true) 21. Max. gross vehicle weight (fully loaded) (tons) 22. Tare weight (tons) (trips/hr) Index/trip) Index/ |



OAQ PROCESS INFORMATION APPLICATION PI-03: Storage & Handling of Bulk Material State Form 52543 (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 obtain detailed information about the storage and handling of bulk materials. Complete one form
 for each process (or group of identical processes). Use additional forms if necessary. 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 anyone to inspect and photocopy.

PART A: Storage & Handing Information

Part A identifies all process units associated with storage and handling process for bulk materials. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize 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/year) |
|---|---|--|---|---|--|
| Silo | 3-40 through 3- 48 | | 11/1/2024 | Clinker | 1500000.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| Add-On Control T | echnology: / | dentify all control techr | nologies used for this | unit, and attach complet | ed CE-01 (unless "none"). |
| None None | | | | | |
| 🛛 Baghouse / Fab | ric Filter – Atta | ach CE-02. | Cyclon | e – Attach CE-03. | |
| Electrostatic Pre | ecipitator – Att | ach CE-04. | 🗌 Absorp | tion / Wet Collector / S | Scrubber – Attach CE-05. |
| Adsorber – Attac | h CE-07. | | Other (| (specify): | – Attach CE-10. |
| Control Techniqu | es: Identify ar | ny other air emission | control options us | ed for the process. | |
| The silo and associ controlled by fabric | iated conveyc filters. | ors and hoppers will I | be enclosed to min | imize dust emissions. | All equipment will be |
| Process Limitatio information if neces | ns / Addition ssary. | al Information: Ide | ntify any acceptab | le process limitations. | Attach additional |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | Equipment / Component Type Silo Add-On Control T None Baghouse / Fab Electrostatic Pre Adsorber – Attac Control Techniqu The silo and associ controlled by fabric | Equipment / Component Type 2. Unit ID Silo 3-40 through 3- 48 Silo 3-40 through 3- 48 Add-On Control Technology: / None Baghouse / Fabric Filter – Atta Electrostatic Precipitator – Atta Adsorber – Attach CE-07. Control Techniques: Identify all The silo and associated conveyor controlled by fabric filters. Process Limitations / Addition information if necessary. | Equipment / Component Type 2. Unit ID 3. Number of Identical Units Silo 3-40 through 3- 48 - Add-On Control Technology: Identify all control techn - None - - Baghouse / Fabric Filter - Attach CE-02. - - Electrostatic Precipitator - Attach CE-04. - - Adsorber - Attach CE-07. - - Control Techniques: Identify any other air emission - The silo and associated conveyors and hoppers will I controlled by fabric filters. - Process Limitations / Additional Information: Ide information if necessary. - | Equipment / Component Type 2. Unit ID 3. Number of Identical Units 4. Installation Date (see instructions) Silo 3-40 through 3- 48 11/1/2024 Add-On Control Technology: Identify all control technologies used for this None Baghouse / Fabric Filter – Attach CE-02. Cyclon Electrostatic Precipitator – Attach CE-04. Absorp Adsorber – Attach CE-07. Other of Other of Control Techniques: Identify any other air emission control options us The silo and associated conveyors and hoppers will be enclosed to min controlled by fabric filters. | Equipment / Component Type 2. Unit ID 3. Number of Identical Units 4. Installation Date (see instructions) 5. Material Handled/ Stored Silo 3-40 through 3- 48 11/1/2024 Clinker Add-On Control Technology: Identify all control technologies used for this unit, and attach complet 1 None Cyclone – Attach CE-02. Cyclone – Attach CE-03. Electrostatic Precipitator – Attach CE-04. Absorption / Wet Collector / S Adsorber – Attach CE-07. Other (specify): Control Technoluges: Identify any other air emission control options used for the process. The silo and associated conveyors and hoppers will be enclosed to minimize dust emissions. controlled by fabric filters. Process Limitations / Additional Information: Identify any acceptable process limitations. information if necessary. |

PART B: Process Material Information

Part B summarizes the process material information. Provide the information in the items below for each material stored and/or handled in this process.

| 10. Material Handled/Stored (from table above) | 11. Method of Handling | 12. Type of Storage | 13. Storage Capacity (tons) | 14. Pile Acreage | 15. Silt Content (% by weight) | 16. Moisture Content (% by weight) |
|--|---------------------------|------------------------|-----------------------------------|---------------------|--------------------------------------|--|
| Clinker | Silo | Silo | 50000.00 | | | |
| | | | | | | |
| | | | | | | |

| PART C: Emission Factors | | | | | | | | | | |
|---|-------------------|--------------------|---------------------|-------|---|--|--|--|--|--|
| 17. Process Equipment & ID (complete for all units listed in | 18. Air Pollutant | 19. Emissions iron | 19. Emission Factor | | 20. Source of Emission Factor (if not using AP-42, include calculations) | | | | | |
| Part A of this form) | | value | units | | | | | | | |
| 3-40 through 3-48 | PM | 0.01 | gr/acf | AP-42 | Other | | | | | |
| 3-40 through 3-48 | PM-10 | 0.0085 | gr/acf | AP-42 | Other | | | | | |
| 3-40 through 3-48 | PM-2.5 | 0.003 | gr/acf | AP-42 | Other | | | | | |
| | | | | AP-42 | Other | | | | | |

| P | ART D: Federal Rule Applicability | | | | | | | | |
|--|--|----------|--|--|--|--|--|--|--|
| Part D identifies any federal rules that apply | / to the process. | | | | | | | | |
| 21. Is a New Source Performance Standa If yes, attach a completed FED-01 for each | 21. Is a New Source Performance Standard (NSPS) applicable to this source? If yes, attach a completed FED-01 for each rule that applies. | | | | | | | | |
| 🔲 40 CFR Part 60, Subpart CC | Glass Manufacturing Plants | | | | | | | | |
| 🗌 40 CFR Part 60, Subpart DD | Grain Elevators | | | | | | | | |
| 🗌 40 CFR Part 60, Subpart HH | Lime Manufacturing Plants | | | | | | | | |
| 🗍 40 CFR Part 60, Subpart LL | Metallic Mineral Processing Plants | | | | | | | | |
| 🗌 40 CFR Part 60, Subpart UU | Asphalt Processing and Asphalt Roofing Manufacture | | | | | | | | |
| 🔲 40 CFR Part 60, Subpart OOO | Non-Metallic Mineral Processing Plants | | | | | | | | |
| 40 CFR Part 60, Subpart UUU | Calciners and Dryers in Mineral Industries | | | | | | | | |
| 22. Is a National Emission Standard for H source? If yes, attach a completed FED-0 | Hazardous Air Pollutants (NESHAP) applicable to this 1 for each rule that applies. | Xes 🗌 No | | | | | | | |
| ☐ 40 CFR Part <u>61</u> , Subpart | (Specify): | | | | | | | | |
| 🛛 40 CFR Part <u>63,</u> Subpart <u>LLL</u> | (Specify): | | | | | | | | |
| 23. Non-Applicability Determination: Prov rule title or the source category), but the | 23. Non-Applicability Determination: Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |



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.IN.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.

| 1. | Control Equipment ID | 2. | Control Equipment Description | 3. | Pollutant Controlled | 4. | Emission Unit ID | 5. | Stack / Vent ID | 6. | Applicable Rule |
|----|-------------------------|----------|----------------------------------|----|-------------------------|----|---------------------|----------|--------------------|----|--------------------|
| | GC509715 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-40 | | FF3-40 | | 40 CFR 63 LLL |
| | GC509801 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-41 | | FF3-41 | | 40 CFR 63 LLL |
| | GC509767 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-42 | | FF3-42 | | 40 CFR 63 LLL |
| | GC509769 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-43 | | FF3-43 | | 40 CFR 63 LLL |
| | GC509787 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-44 | | FF3-44 | | 40 CFR 63 LLL |
| | GC509789 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-45 | | FF3-45 | | 40 CFR 63 LLL |
| | GC509729 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-46 | | FF3-46 | | 40 CFR 63 LLL |
| | GC509737 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-47 | | FF3-47 | | 40 CFR 63 LLL |
| | GC509805 | | Fabric Filter | | PM, PM10, PM2.5 | | 3-48 | | FF3-48 | | 40 CFR 63 LLL |
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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: Identification and Description of Control Equipment

| Ра | rt A identifies the particula | te control device and describes its physical properties. |
|----|--------------------------------|--|
| 1. | Control Equipment ID: | GC509767 |
| 2. | Installation Date: | 11/1/2024 |
| 3. | Bags or Cartridges? | 🗌 Bags 🛛 Cartridges |
| 4. | Filter Material: | Polyester/PTFE |
| 5. | Number of Bags/Cartric | dges per Compartment: 4 |
| 6. | Number of Compartme | nts:1 |
| 7. | Mode of Operation: | And |
| 8. | Cleaning Method: | 🔄 Shaking 🔲 Reverse Pulse 🗌 Reverse Air 🛛 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): TBD |
| 10 | . Is a bag leak detector i | nstalled on this device? 🗌 Yes 🖾 No |
| 11 | . Type / Description of B | ag Leak Detector: Positive Pressure Negative Pressure |
| 12 | Air to Cloth Ratio (Ex: 1. | 3 <i>: 1.0</i>): 3.7 : 1.0 |
| 13 | . Is Lime Injection used o | on this device? 🗌 Yes 🖾 No |
| 14 | . Is Carbon Injection use | d on this device? Ves No |

PART B: Operational Parameters

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 | | 850 | |
| 16. Gas Stream Temperature | ۴ | | 68 | |
| 17. Gas Stream Pressure | inches of water | | | 0.00 to 10.00 |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

t

| Part C provides the pollutant concer | ntrations of the p | ollutant lad | en gas stream | | | | |
|--------------------------------------|----------------------|--------------|-----------------|---------------|---------------------|-------------|--|
| | | 23. Units | 24. Inlet | 25. Outlet | 26. Efficiency (%): | | |
| | | | | | Capture | Control | |
| a. Lead (Pb) | | | | | | | |
| b. Hazardous Air Pollutant (H | AP) (specify): | | | | | | |
| C. Particulate Matter (PM) | | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% | |
| d. Particulate Matter less than f | ί0μm (PM 10) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% | |
| e. Particulate Matter less than 2 | .5µm (PM₂,₅) | gr/acf | 1.00 | 0.003 | 100.0% | 99.0% | |
| f. Other Pollutant (specify): | a Alata Persona a | | | | | | |
| PART I | D: Monitoring, F | Record Kee | eping, & Testi | ng Procedures | t may need to | ac included | |
| in the permit. | osed memoring | | eping, a teatin | | It may need to i | | |
| 27. Item(s) Monitored: | Opacity | | | | | | |
| 28. Monitoring Frequency: | Monthly | | | | | | |
| 29. Item(s) Recorded: | Visible Emissi | ons | | | | | |
| 30. Record Keeping Frequency: | Monthly | | | | | | |
| 31. Pollutant(s) Tested: | Opacity | | | | | | |

| 32. Test Method(s): | 22 | | | |
|--------------------------------------|---------------------------------------|-----------------------------|-------------------------|------------------------|
| 33. Testing Frequency: | Monthly | | | |
| | PART E: P | reventive Maintena | nce Plan | |
| Part E verifies that a complete Pre- | ventive Maintenal | nce Plan (PMP) has | been prepared for | the control device, if |
| 34. Do vou have a Preventive Ma | aintenance Plan | (PMP)? | | |
| No PMP is needed. | Yes - the follow | ing items are identifi | ed on the PMP: | |
| A. Identification of the in | dividual(s) responsible | e for inspecting, maintaini | ng and repairing emissi | ion control devices. |
| B. Description of the iten | ns or conditions that w | vill be inspected. | | · |
| C. Schedule for inspection | on of items or conditio | ns described above. | | |
| D. Identification and qua | ntification of the repla | cement parts that will be r | maintained in inventory | for quick replacement. |
| | · · · · · · · · · · · · · · · · · · · | | | |

| | PART F: Determination of | Integral Control | | |
|---|--|--------------------|------------------------|------------------|
| Part F provides explanation to | determine whether the control device | ce should be consi | dered integral to t | he process. |
| 35. Has IDEM already made If "Yes", provide the follow | an integral control determination ing: | for this device? | No | 🗌 Yes |
| Permit Number: | Issuance Date: | Determinat | i on: 🗌 Integra | I 🗌 Not Integral |
| 36. Is this device integral to If "Yes", provide the reaso | the process? n(s) why the device is integral. | 🗌 No | 🛛 Yes | |
| A properly functioning bag | house is required to operate the clin | ker silo. | | |
| , | | | | |
| | | | | |



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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.

| ц. Ц. с. с. | · | PART A: Identific | cation and Description of Control Equipment |
|----------------|-------------------------------|-----------------------|---|
| Pa | rt A identifies the particula | te control device a | and describes its physical properties. |
| 1. | Control Equipment ID: | GC509769 | |
| 2. | Installation Date: | 11/1/2024 | |
| 3. | Bags or Cartridges? | Bags | ⊠ Cartridges |
| 4. | Filter Material: | Polyester/PTFE | E |
| 5. | Number of Bags/Cartric | lges per Compar | artment: 4 |
| 6. | Number of Compartme | nts: | 1 |
| 7. | Mode of Operation: | | Intermittent Periodic I Continuous |
| 8. | Cleaning Method: | | 🗌 Shaking 🔄 Reverse Pulse 📄 Reverse Air 🖂 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): | : TBD |
| 10. | Is a bag leak detector in | nstalled on this d | device? 🗌 Yes 🛛 No |
| 11. | Type / Description of B | ag Leak Detector | or: Positive Pressure Negative Pressure |
| 12. | Air to Cloth Ratio (Ex: 1.3 | 3:1.0): 3.7:1.0 |) |
| 13. | Is Lime Injection used o | on this device? | 🗌 Yes 🖾 No |
| 14. | Is Carbon Injection use | d on this device? | Yes 🛛 No |

PART B: Operational Parameters

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 | | 850 | |
| 16. Gas Stream Temperature | ۴F | | 68 | |
| 17. Gas Stream Pressure | inches of water | | | 0.00 to 10.00 |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | ib/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | · · · |
| 22. Other (specify): | | | | |

| Pai | PART C Pollutant concentrations Part C provides the pollutant concentrations of the pollutant laden gas stream. | | | | | | |
|-------------|--|--|-----------|-----------|------------|---------------------|---------|
| | | | 23. Units | 24. Inlet | 25. Outlet | 26. Efficiency (%): | |
| M | | | | | | Capture | Control |
| | a. | Lead (Pb) | | | | | |
| | b. | Hazardous Air Pollutant (HAP) (specify): | | | | | |
| \boxtimes | c. | Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% |
| \boxtimes | d. | Particulate Matter less than 10µm (PM10) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% |
| \boxtimes | e. | Particulate Matter less than 2.5µm (PM2.5) | gr/acf | 1.00 | 0.003 | 100.0% | 99.0% |
| | f. | Other Pollutant (specify): | · | | | | |

| art D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included the permit. | | | | |
|--|-------------------|--|--|--|
| 27. Item(s) Monitored: | Opacity | | | |
| 28. Monitoring Frequency: | Monthly | | | |
| 29. Item(s) Recorded: | Visible Emissions | | | |
| 30. Record Keeping Frequency: | Monthly | | | |
| 31. Pollutant(s) Tested: | Opacity | | | |
| 32. Test Method(s): | 22 | | | |
| 33. Testing Frequency: | Monthly | | | |

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 Maintenance Plan (PMP)? No PMP is needed. Yes – the following items are identified on the PMP: A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices. B. Description of the items or conditions that will be inspected. C. Schedule for inspection of items or conditions described above. D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

PART F: Determination of Integral Control Part F provides explanation to determine whether the control device should be considered integral to the process. 35. Has IDEM already made an integral control determination for this device? 🖾 No T Yes If "Yes", provide the following: Permit Number: **Issuance Date: Determination:** Integral Not Integral 36. Is this device integral to the process? ΠNο 🛛 Yes If "Yes", provide the reason(s) why the device is integral. A properly functioning baghouse is required to operate the clinker silo.



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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: Identification and Description of Control Equipment

| Pa | rt A identifies the particular | te control device an | nd describes its physical properties. |
|----|--------------------------------|--|---|
| 1. | Control Equipment ID: | GC509787 | |
| 2. | Installation Date: | 11/1/24 | |
| 3. | Bags or Cartridges? | 🔄 Bags 🛛 🖸 | ☐ Cartridges |
| 4. | Filter Material: | Polyester/PTFE | |
| 5. | Number of Bags/Cartric | lges per Compartr | ment: 4 |
| 6. | Number of Compartme | nts: | 1 |
| 7. | Mode of Operation: | tiveleses av period and a | Intermittent Periodic I Continuous |
| 8. | Cleaning Method: | ne l'electrony de la composition de la La composition de la c | 🗌 Shaking 🔄 Reverse Pulse 🔄 Reverse Air 🖂 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): | TBD |
| 10 | . Is a bag leak detector in | istalled on this de | vice? 🔲 Yes 🖾 No |
| 11 | . Type / Description of B | ag Leak Detector: | Positive Pressure Negative Pressure |
| 12 | . Air to Cloth Ratio (Ex: 1.3 | 3:1.0): 3.7:1.0 | |
| 13 | . Is Lime Injection used o | n this device? | Yes 🛛 No |
| 14 | . Is Carbon Injection use | d on this device? | |

PART B: Operational Parameters

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 | | 850.00 | |
| 16. Gas Stream Temperature | ۴ | | 68 | |
| 17. Gas Stream Pressure | inches of water | | | 0.00 to 10.00 |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

, avail.

| | 23. Units | 24. inlet | 25. Outlet | 26. Efficienc | (%): |
|---|-----------|-----------|------------|---------------|---------|
| | | | | Capture | Control |
| 🔄 a. Lead (Pb) | | | | | |
| b. Hazardous Air Pollutant (HAP) <i>(specify)</i> : | | | | | |
| c. Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% |
| d. Particulate Matter less than 10μm (PM ₁₀) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% |
| e. Particulate Matter less than 2.5μm (PM _{2.5}) | gr/acf | 1.00 | 0.003 | 100,0% | 99.0% |
| f. Other Pollutant (specify): | | | | | |

| Part D identifies any existing or prop in the permit. | osed monitoring, record keepin | g, & testing procedures that may need to be i | ncluded |
|--|--------------------------------|---|---------|
| 27. Item(s) Monitored: | Opacity | | |
| 28. Monitoring Frequency: | Monthly | | |
| 29. Item(s) Recorded: | Visible Emissions | | |
| 30. Record Keeping Frequency: | Monthly | | |
| 31. Pollutant(s) Tested: | Opacity | | |
| 32. Test Method(s): | 22 | | |
| 33. Testing Frequency: | Monthly | | |

| Part E verif applicable. | PART E: Preventive Maintenance Plan ies that a complete Preventive Maintenance Plan (PMP) has been prepared for the control device, if Use this table as a checklist to ensure that the PMP is complete. | |
|-----------------------------|--|--|
| 34. Do you | a have a Preventive Maintenance Plan (PMP)? | |
| 🛛 No | PMP is needed. Yes – the following items are identified on the PMP: | |
| | A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices. | |
| | B. Description of the items or conditions that will be inspected. | |
| | C. Schedule for inspection of items or conditions described above. | |
| | D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement. | |

PART F: Determination of Integral Control

| Part F provides explanation to | determine whether the control device | ce should be cor | nsidered integral to the | e process. |
|---|--|------------------|--------------------------|--------------|
| 35. Has IDEM already made If "Yes", provide the follow | an integral control determination | for this device | ? 🛛 No | 🗌 Yes |
| Permit Number: | Issuance Date: | Determin | ation: Integral | Not Integral |
| 36. Is this device integral to If "Yes", provide the reaso | the process? n(s) why the device is integral. | 🗌 No | 🛛 Yes | |
| A properly functioning bag | house is required to operate the clin | ker silo | | |

A property functioning bagnouse is required to operate the clinker silo.



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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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 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 Description of Control Equipment

| Pa | rt A identifies the particula | te control device and describes its physical properties. |
|----|-------------------------------|--|
| 1. | Control Equipment ID: | GC509789 |
| 2. | Installation Date: | 11/1/24 |
| 3. | Bags or Cartridges? | 🗌 Bags 🛛 🖂 Cartridges |
| 4. | Filter Material: | Polyester/PTFE |
| 5. | Number of Bags/Cartric | dges per Compartment: 4 |
| 6. | Number of Compartme | nts: 1 the second s |
| 7. | Mode of Operation: | Intermittent Periodic Intermittent |
| 8. | Cleaning Method: | 🔄 Shaking 🔲 Reverse Pulse 🗌 Reverse Air 🖂 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): TBD |
| 10 | . Is a bag leak detector i | nstalled on this device? |
| 11 | . Type / Description of B | ag Leak Detector: Positive Pressure Negative Pressure |
| 12 | . Air to Cloth Ratio (Ex: 1.3 | 3:1.0): 3.7:1.0 |
| 13 | . Is Lime Injection used o | on this device? 🗌 Yes 🖾 No |
| 14 | . Is Carbon Injection use | d on this device? 🔲 Yes 🖾 No |

PART B: Operational Parameters

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 | | 850 | |
| 16. Gas Stream Temperature | °F | | 68 | |
| 17. Gas Stream Pressure | inches of water | | | 0.00 to 10.00 |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

| Par | PART C: Pollutant Concentrations Part C provides the pollutant concentrations of the pollutant laden gas stream. | | | | | | | |
|-------------|--|--------|------|--------|---------|---------|--|--|
| | 23. Units 24. Inlet 25. Outlet 26. Efficiency (%): | | | | | | | |
| | | | | | Capture | Control | | |
| | a. Lead (Pb) | | | | | | | |
| | b. Hazardous Air Pollutant (HAP) (specify): | | | | | | | |
| \boxtimes | c. Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% | | |
| \boxtimes | d. Particulate Matter less than 10μm (PM10) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% | | |
| \boxtimes | e. Particulate Matter less than 2.5µm (PM2.5) | gr/acf | 1.00 | 0.003 | 100.0% | 99.0% | | |
| | f. Other Pollutant (specify) | | | | | | | |

| 'art D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included n the permit. | | | | |
|---|-------------------|--|--|--|
| 27. Item(s) Monitored: | Opacity | | | |
| 28. Monitoring Frequency: | Monthly | | | |
| 29. Item(s) Recorded: | Visible Emissions | | | |
| 30. Record Keeping Frequency: | Monthly | | | |
| 31. Pollutant(s) Tested: | Opacity | | | |
| 32. Test Method(s): | 22 | | | |
| 33. Testing Frequency: | Monthly | | | |

| Part E verif | PART E: Preventive Maintenance Plan ies 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 | I have a Preventive Maintenance Plan (PMP)? | |
| 🛛 No | PMP is needed. Yes – the following items are identified on the PMP: | |
| | A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices. | |
| | B. Description of the items or conditions that will be inspected. | |
| | C. Schedule for inspection of items or conditions described above. | |
| | D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement. | ay Salasa Dinina |

PART F: Determination of Integral Control

| Part F provides explanation to | determine whether the control devic | e should be con | sidered integral to the | process. |
|---|--|------------------|-------------------------|--------------|
| 35. Has IDEM already made If "Yes", provide the follow | an integral control determination | for this device? | No | 🗌 Yes |
| Permit Number: | Issuance Date: | Determina | ation: | Not Integral |
| 36. Is this device integral to If "Yes", provide the reaso | the process? n(s) why the device is integral. | 🗌 No | Yes - | |
| • • • · · · | | | | |

A properly functioning baghouse is required to operate the clinker silo.



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NOTES:

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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.

| ġ. | | PART A: Identifi | cation and Description of Control Equipment |
|-----|--------------------------------|---------------------------------|---|
| Pa | rt A identifies the particulal | te control device | and describes its physical properties. |
| 1. | Control Equipment ID: | GC509715 | |
| 2. | Installation Date: | 11/1/2024 | |
| 3. | Bags or Cartridges? | 🔀 Bags | Cartridges |
| 4. | Filter Material: | Polyester | |
| 5. | Number of Bags/Cartrid | lges per Compa | artment: 64 |
| 6. | Number of Compartmen | nts: | · <u>1</u> |
| 7. | Mode of Operation: | | Intermittent Periodic I Continuous |
| 8. | Cleaning Method: | -Alain-Alain an ang baran. - | Shaking Reverse Pulse Reverse Air 🛛 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): | : TBD |
| 10. | Is a bag leak detector ir | nstalled on this | device? 🗌 Yes 🖾 No |
| 11. | Type / Description of B | ag Leak Detecto | or: Positive Pressure Negative Pressure |
| 12. | Air to Cloth Ratio (Ex: 1.3 | 3:1.0): 3.6:1.0 |) |
| 13. | Is Lime Injection used o | n this device? | 🗌 Yes 🖾 No |
| 14. | Is Carbon Injection used | d on this device? | ' 🗌 Yes 🛛 No |

PART B: Operational Parameters

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 | | 3500.00 | |
| 16. Gas Stream Temperature | ۴F | | 68.00 | |
| 17. Gas Stream Pressure | inches of water | -11.20 | | to |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

| Par | PART C: Pollutant Concentrations Part C provides the pollutant concentrations of the pollutant laden gas stream. | | | | | | | |
|-------------|---|--|--------|------|--------|---------|---------|--|
| | 23. Units 24. Inlet 25. Outlet 26. Efficiency (%): | | | | | | | |
| | | | | | | Capture | Control | |
| | a. | Lead (Pb) | | | | | | |
| | b. | Hazardous Air Pollutant (HAP) (specify): | | | | | | |
| \boxtimes | c. | Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% | |
| \boxtimes | d. | Particulate Matter less than 10µm (PM10) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% | |
| \boxtimes | e. | Particulate Matter less than 2.5µm (PM2.5) | gr/acf | 1.00 | 0.003 | 100.0% | 99.0% | |
| | f. | Other Pollutant (specify): | | | | | | |

| art D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included I the permit. | | | | |
|--|-------------------|--|--|--|
| 27. Item(s) Monitored: | Opacity | | | |
| 28. Monitoring Frequency: | Monthly | | | |
| 29. Item(s) Recorded: | Visible Emissions | | | |
| 30. Record Keeping Frequency: | Monthly | | | |
| 31. Pollutant(s) Tested: | Opacity | | | |
| 32. Test Method(s): | 22 | | | |
| 33. Testing Frequency: | Monthly | | | |

| PART E: Preve | ntive Maintenance Plan |
|--|--|
| Part E verifies that a complete Preventive Maintenance applicable. Use this table as a checklist to ensure that the second secon | Plan (PMP) has been prepared for the control device, if ne PMP is complete. |
| 34. Do you have a Preventive Maintenance Plan (PM | P)? |
| ⊠ No PMP is needed. □ Yes – the following i | terns are identified on the PMP: |
| A. Identification of the individual(s) responsible for i | nspecting, maintaining and repairing emission control devices. |
| B. Description of the items or conditions that will be | inspected. |
| C. Schedule for inspection of items or conditions de | scribed above. |
| D. Identification and quantification of the replaceme | nt parts that will be maintained in inventory for quick replacement. |

PART F: Determination of Integral Control

| Part F provides explanation to | determine whether the control dev | ice should be cor | sidered integral to the | process. |
|---|---|-------------------|-------------------------|--------------|
| 35. Has IDEM already made If "Yes", provide the follow | an integral control determination ving: |) for this device | ? 🛛 No | Yes |
| Permit Number: | Issuance Date: | Determin | ation: | Not Integral |
| 36. Is this device integral to If "Yes", provide the reaso | the process? on(s) why the device is integral. | □ No | 🛛 Yes | |
| A properly functioning has | | | | |

A properly functioning baghouse is required to operate the clinker silo.



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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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| | ART A: Identific | ation and Description of Control Equipment |
|---------------------------------|-----------------------|---|
| Part A identifies the particula | te control device a | and describes its physical properties. |
| 1. Control Equipment ID: | GC509729 | · |
| 2. Installation Date: | 11/1/2024 | |
| 3. Bags or Cartridges? | 🛛 Bags | Cartridges |
| 4. Filter Material: | Polyester | |
| 5. Number of Bags/Cartric | lges per Compai | rtment: 81 |
| 6. Number of Compartme | nts: | 1 |
| 7. Mode of Operation: | | 🗌 Intermittent 🔲 Periodic 🛛 🖾 Continuous |
| 8. Cleaning Method: | | 🗌 Shaking 🔄 Reverse Pulse 🔄 Reverse Air 🖾 Jet Pulse |
| 9. Cleaning Cycle / Freque | ency (specify units): | TBD |
| 10. Is a bag leak detector i | nstalled on this d | levice? 🗌 Yes 🖾 No |
| 11. Type / Description of B | ag Leak Detecto | r: |
| 12. Air to Cloth Ratio (Ex: 1. | 3:1.0): 4.6:1.0 | |
| 13. Is Lime Injection used o | n this device? | Yes 🛛 No |
| 14. Is Carbon Injection use | d on this device? | ☐ Yes ⊠ No |

PART B: Operational Parameters

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 | | 5700.00 | |
| 16. Gas Stream Temperature | ۴F | | 68.00 | |
| 17. Gas Stream Pressure | inches of water | -12.00 | | to |
| 18. Moisture Content | % | 1 | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

| Par | t C p | provides the pollutant concentrations of the | pollutant lad | en gas stream | | | |
|-------------|-----------|--|---------------------|---------------|---------------------|---------|---------|
| | | | 23. Units 24. Inlet | 25. Outlet | 26. Efficiency (%): | | |
| | | | | | | Capture | Control |
| | a. | Lead (Pb) | | | | | |
| | b. | Hazardous Air Pollutant (HAP) (specify): | | | | | |
| \boxtimes | C. | Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% |
| \boxtimes | d. | Particulate Matter less than 10µm (PM10) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% |
| \boxtimes | e. | Particulate Matter less than 2.5µm (PM2.5) | gr/acf | 1.00 | 0.003 | 100.0% | 99.0% |
| | f. | Other Pollutant (specify): | | | | | |

Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit. Opacity 27. Item(s) Monitored: Monthly 28. Monitoring Frequency: **Visible Emissions** 29. Item(s) Recorded: Monthly 30. Record Keeping Frequency: Opacity 31. Pollutant(s) Tested: 22 32. Test Method(s): Monthly 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 Maintenance Plan (PMP)? |
| No PMP is needed. |
| A. Identification of the individual(s) responsible for inspecting, maintaining and repairing emission control devices. |
| B. Description of the items or conditions that will be inspected. |
| C. Schedule for inspection of items or conditions described above. |
| D. Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement. |

PART F: Determination of Integral Control

| Part F provides explanation to determine whether the control device should be considered integral to the process. | | | | | |
|---|--|------------------|--------|----------|--------------|
| 35. Has IDEM already made a If "Yes", provide the followi | an integral control determination ng: | for this device? | 2 | 🛛 No | 🗌 Yes |
| Permit Number: | Issuance Date: | Determina | ation: | Integral | Not Integral |
| 36. Is this device integral to the lif "Yes", provide the reasor | t he process? n(s) why the device is integral. | 🗌 No | × | es | |
| A properly functioning bag | nouse is required to operate the clin | ker silo. | | | · · |



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NOTES:

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 any one to inspect and photocopy.

PART A: Identification and Description of Control Equipment

| Pa | rt A identifies the particulat | te control device a | and describes its p | hysical propertie | S. | |
|-----|--------------------------------|------------------------|---------------------|-------------------|------------|-------------------------|
| 1. | Control Equipment ID: | GC509737 | | | | |
| 2. | Installation Date: | 11/1/2024 | | | | |
| 3. | Bags or Cartridges? | 🛛 Bags | Cartridges | | | |
| 4. | Filter Material: | Polyester | | | | |
| 5. | Number of Bags/Cartric | lges per Compar | tment: 36 | | | |
| 6. | Number of Compartme | nts: | 1 | | | |
| 7. | Mode of Operation: | | Intermittent | Periodic | 🛛 Continuo | us |
| 8. | Cleaning Method: | | Shaking | Reverse Puls | se 🗌 F | Reverse Air 🛛 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): | TBD | | | |
| 10 | . Is a bag leak detector ir | nstalled on this d | evice? 🗌 Ye | es 🛛 No | | |
| 11. | . Type / Description of B | ag Leak Detector | : 🗌 Po | ositive Pressure | 🗌 Negativ | ve Pressure |
| 12 | Air to Cloth Ratio (Ex: 1.3 | <u>3:1.0):</u> 4.1:1.0 | | | | |
| 13 | Is Lime Injection used o | n this device? | 🗌 Yes 🖾 No | | | |
| 14 | Is Carbon Injection used | d on this device? | 🗌 Yes 🛛 No | | | |

PART B: Operational Parameters

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 | | 2300.00 | |
| 16. Gas Stream Temperature | ۴ | | 68.00 | |
| 17. Gas Stream Pressure | inches of water | -12.00 | | to |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | 1 | | |

| | | 23. Units | 24. Inlet | 25. Outlet | 26. Efficiency | (%): |
|-------------|--|---------------------------|-----------|------------|----------------|---------|
| | | | | | Capture | Control |
| | a. Lead (Pb) | | | | | |
| | b. Hazardous Air Pollutant (HAP) (sp | ecify): | | | | |
| \boxtimes | c. Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% |
| \boxtimes | d. Particulate Matter less than 10µm (P | VI10) gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% |
| \boxtimes | e. Particulate Matter less than 2.5µm (P | M _{2.5}) gr/acf | 1.00 | 0.003 | 100.0% | 99.0% |
| | f. Other Pollutant (specify): | | | | | 1 |

| Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included n the permit. | | | |
|---|-------------------|--|--|
| 27. Item(s) Monitored: | Opacity | | |
| 28. Monitoring Frequency: | Monthly | | |
| 29. Item(s) Recorded: | Visible Emissions | | |
| 30. Record Keeping Frequency: | Monthly | | |
| 31. Pollutant(s) Tested: | Opacity | | |
| 32. Test Method(s): | 22 | | |
| 33. Testing Frequency: | Monthly | | |

| | PART E: Preventive Maintenance Plan |
|---|---|
| Part E verifies that a complete F applicable. Use this table as a | Preventive Maintenance Plan (PMP) has been prepared for the control device, if checklist to ensure that the PMP is complete. |
| 34. Do you have a Preventive | Maintenance Plan (PMP)? |
| No PMP is needed. | Yes – the following items are identified on the PMP: |
| A. Identification of th | e individual(s) responsible for inspecting, maintaining and repairing emission control devices. |
| B . Description of the | items or conditions that will be inspected. |
| C. Schedule for insp | action of items or conditions described above. |
| D. Identification and | quantification of the replacement parts that will be maintained in inventory for quick replacement. |

PART F: Determination of Integral Control

| Part F provides explanation to | determine whether the control device | ce should be considered integral to the | ie process. |
|---|--|---|--------------|
| 35. Has IDEM already made a If "Yes", provide the followi | an integral control determination ng: | for this device? 🛛 🕅 No | 🗌 Yes |
| Permit Number: | Issuance Date: | Determination: Integral | Not Integral |
| 36. Is this device integral to the process? If "Yes", provide the reason(s) why the device is integral. | | 🗌 No 🛛 Yes | |
| A menorie functioning book | | 1 | |

A properly functioning baghouse is required to operate the clinker silo.



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NOTES:

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 any one to inspect and photocopy.

PART A: Identification and Description of Control Equipment

| Pa | rt A identifies the particular | te control device a | and describes its physical properties. |
|------------|--------------------------------|--------------------------|---|
| 1. | Control Equipment ID: | GC509801 | |
| 2. | Installation Date: | 11/1/2024 | |
| 3. | Bags or Cartridges? | 🛛 Bags | Cartridges |
| 4. | Filter Material: | Polyester | |
| 5. | Number of Bags/Cartric | lges per Compar | tment: 154 |
| 6. | Number of Compartme | n ts: | 1 |
| 7. | Mode of Operation: | | Intermittent Periodic I Continuous |
| 8. | Cleaning Method: | | 🗌 Shaking 🔄 Reverse Pulse 📄 Reverse Air 🔀 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): | TBD |
| 10 | . Is a bag leak detector ir | nstalled on this d | levice? 🗌 Yes 🖾 No |
| 11: 11: | . Type / Description of Ba | ag Leak Detector | r: Positive Pressure I Negative Pressure |
| 12 | . Air to Cloth Ratio (Ex: 1.3 | 3 <i>:1.0</i>): 4.2:1.0 | |
| 13. | . Is Lime Injection used o | n this device? | 🗌 Yes 🖾 No |
| 14 | . Is Carbon Injection used | d on this device? | 🗌 Yes 🖾 No |

PART B: Operational Parameters

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 | | 15000.00 | |
| 16. Gas Stream Temperature | ۴F | | 68.00 | |
| 17. Gas Stream Pressure | inches of water | -12.00 | | to |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

| | 23. Units | 24. Inlet | 25. Outlet | 26. Efficiency (%): | | |
|--|-----------|-----------|------------|---------------------|--------|--|
| | | | | Capture | Contro | |
| a. Lead (Pb) | | | | | | |
| b. Hazardous Air Pollutant (HAP) <i>(specify)</i> : | | | | | | |
| 🛛 c. Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% | |
| ✓ d. Particulate Matter less than 10µm (PM ₁₀) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% | |
| A e. Particulate Matter less than 2.5μm (PM _{2.5}) | gr/acf | 1.00 | 0.00 | 100.0% | 99.0% | |
| f. Other Pollutant (specify): | | | | | | |

| Part D identifies any existing or prop in the permit. | art D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included the permit. | | | | | | |
|--|--|--|--|--|--|--|--|
| 27. Item(s) Monitored: | Opacity | | | | | | |
| 28. Monitoring Frequency: | Monthly | | | | | | |
| 29. Item(s) Recorded: | Visible Emissions | | | | | | |
| 30. Record Keeping Frequency: | Monthly | | | | | | |
| 31. Pollutant(s) Tested: | Opacity | | | | | | |
| 32. Test Method(s): | 22 | | | | | | |
| 33. Testing Frequency: | Monthly | | | | | | |

| PART E: Preventive Maintena Part E verifies that a complete Preventive Maintenance Plan (PMP) has applicable. Use this table as a checklist to ensure that the PMP is comp | ince Plan been prepared ilete. | for the control device, | If |
|--|--------------------------------------|-----------------------------|---|
| 34. Do you have a Preventive Maintenance Plan (PMP)? | | | |
| No PMP is needed. | ed on the PMP: | | |
| A. Identification of the individual(s) responsible for inspecting, maintaini | ing and repairing en | nission control devices. | |
| B. Description of the items or conditions that will be inspected. | | | |
| C. Schedule for inspection of items or conditions described above. | ista litera | | |
| D. Identification and quantification of the replacement parts that will be | maintained in inven | tory for quick replacement. | e han de se de se en Heren en se de se de se |

| | PART F: Determination of | Integral Contro | | |
|---|--|------------------|-------------------------|--------------|
| Part F provides explanation to | determine whether the control device | ce should be con | sidered integral to the | e process. |
| 35. Has IDEM already made If "Yes", provide the follow | an integral control determination | for this device? | No | Yes |
| Permit Number: | Issuance Date: | Determina | ation: 🗌 Integral | Not Integral |
| 36. Is this device integral to If "Yes", provide the reaso | the process? n(s) why the device is integral. | □ No | 🛛 Yes | |
| A properly functioning bag | house is required to operate the clin | iker silo. | | |
| | | | | |
| | , | | | |



Filter 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

IDEM - Office of Air Quality - Permits Branch

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: Identification and Description of Control Equipment

| Pa | rt A identifies the particula | te control device a | and describes its physical properties. |
|-----|-------------------------------|--------------------------|---|
| 1. | Control Equipment ID: | GC509805 | |
| 2. | Installation Date: | 11/1/2024 | |
| 3. | Bags or Cartridges? | 🛛 Bags | Cartridges |
| 4. | Filter Material: | Polyester | |
| 5. | Number of Bags/Cartric | lges per Compar | artment: 120 |
| 6. | Number of Compartme | nts: | ™ ™ 1 |
| 7. | Mode of Operation: | | Intermittent Periodic Continuous |
| 8. | Cleaning Method: | | Shaking 🔲 Reverse Pulse 🗌 Reverse Air 🛛 Jet Pulse |
| 9. | Cleaning Cycle / Freque | ency (specify units): | E TBD |
| 10. | Is a bag leak detector in | nstalled on this d | device? 🗌 Yes 🖾 No |
| 11. | Type / Description of B | ag Leak Detector | or: Positive Pressure Negative Pressure |
| 12 | Air to Cloth Ratio (Ex: 1. | 3 <i>:1.0</i>): 4.3:1.0 | 0 |
| 13. | Is Lime Injection used o | n this device? | 🗌 Yes 🖾 No |
| 14. | Is Carbon Injection use | d on this device? | Yes 🛛 Yes 🖾 No |

PART B: Operational Parameters

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 | | 8000.00 | |
| 16. Gas Stream Temperature | ۴F | | 68.00 | |
| 17. Gas Stream Pressure | inches of water | -12.00 | | to |
| 18. Moisture Content | % | | 0.10% | |
| 19. Particle Size Range | gr/acf | | 0.01 | to |
| 20. Lime Injection Rate (if applicable) | lb/hr | | | |
| 21. Carbon Injection Rate (if applicable) | lb/hr | | | |
| 22. Other (specify): | | | | |

10000

| | 23. Units | 24. Inlet | 25. Outlet | 26. Efficiency (%): | | |
|---|-----------|-----------|------------|---------------------|---------|--|
| | | | | Capture | Control | |
| 🗌 a. Lead (Pb) | | | | | | |
| b. Hazardous Air Pollutant (HAP) <i>(specify)</i> : | | | | | | |
| 🗙 c. Particulate Matter (PM) | gr/acf | 1.00 | 0.01 | 100.0% | 99.0% | |
| d. Particulate Matter less than 10μm (PM ₁₀) | gr/acf | 1.00 | 0.0085 | 100.0% | 99.0% | |
| e. Particulate Matter less than 2.5μm (PM _{2.5}) | gr/acf | 1.00 | 0.003 | 100.0% | 99.0% | |
| f. Other Pollutant (specify): | | | | · · · | | |

Part D identifies any existing or proposed monitoring, record keeping, & testing procedures that may need to be included in the permit. Opacity 27. Item(s) Monitored: Monthly 28. Monitoring Frequency: **Visible Emissions** 29. Item(s) Recorded: Monthly 30. Record Keeping Frequency: Opacity 31. Pollutant(s) Tested: 22 32. Test Method(s): Monthly 33. Testing Frequency:

| Part E verifies that a complete F | PART E: Preventive Maintenance Plan reventive Maintenance Plan (PMP) has been prepared for the control device, if |
|---|--|
| applicable. Use this table as a c 34. Do you have a Preventive | Maintenance Plan (PMP)? |
| No PMP is needed. | Yes – the following items are identified on the PMP: |
| A . Identification of the | e individual(s) responsible for inspecting, maintaining and repairing emission control devices. |
| B. Description of the | items or conditions that will be inspected. |
| C. Schedule for inspe | action of items or conditions described above. |
| D. Identification and o | quantification of the replacement parts that will be maintained in inventory for quick replacement. |

PART F: Determination of Integral Control

| 35. Has IDEM already made a If "Yes", provide the follow | an integral control determination ing: | for this device | ? 🛛 No | 🗌 Yes |
|--|--|-----------------|-------------------|--------------|
| Permit Number: | Issuance Date: | Determin | ation: 🗌 Integral | Not Integral |
| 36. Is this device integral to If "Yes", provide the reason | the process? n(s) why the device is integral. | 🗌 No | ⊠ Yes | |



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. 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 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.

| 1. | Source Name: Lone Star Inc | lustries, Inc. dba Buzzi Unicem USA | 2. | Source ID: | 133 – 00002 |
|----|-----------------------------|-------------------------------------|----|------------|-----------------------|
| 3. | Emissions Unit Description: | Clinker Silo System | 4. | Unit ID: | 3-40 through 3- 48 |

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.

| · _ 가락은 작품이 가지 않는 ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ | | ALC: AND A CONTRACT | The second states that the second se Second second sec second second sec | A CONTRACTOR OF A | | | |
|---|--|---------------------|---|-------------------|-------------------|--|--|
| 5. Rule | 6. Description | 7. State / | 8. Limitation | 9. Test | 10. In Compliance | | |
| Cite | The second s second second se second second s | Local Only | | Method | (y/n) | | |
| 40 CFR 63 | Monthly 10-minute | N | 10% Opacity | Method 22/9 | Y | | |
| Subpart III | Method 22 visible | | | | | | |
| | emisison observations | | | | | | |
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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. | | | | | | | | | |
|---|------------------------|-------------------------|--|--|--|--|--|--|--|
| 11. Other Requirements | 12. State / Local Only | 13. In Compliance (y/n) | | | | | | | |
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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

NOTES:

Answer Street

- 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 noncompliance.
- 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.
- 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: Source Identification | and Compli | ance Schedule | |
|---|------------------|-----------------------|---|
| Part A identifies the permitted source and the permit term comp | pliance certific | ation schedule. | den genten en genteren frigte en en fre o |
| 1. Source Name: Lone Star Industries, Inc. dba Buzzi Uni | icem USA | 2. Source ID: | 133 – 00002 |
| 3. Permit Term Compliance Certification Schedule | | | |
| Date of first certification submittal: | Frequency | of future submittals: | |

| 4. | Statement of Applicability / Non-Applicability: Indicate wh requirement to submit and RMP. | hether | the source is sub | ject | to Section 1 | 12(r) and the | |
|------------------|--|--------------------|--|---------------|---------------------------|-------------------------------------|---------|
| | Source is subject to Section 112(r) and a Risk Manageme | ent Pla | n (RMP) is requir | ed. | | | |
| | Source is not subject to Section 112(r) and a Risk Manage | ement | Plan (RMP) is no | ot rec | uired. | | |
| RM | IP Submittal Information: Indicate when the RMP was submit vet been submitted to any of the listed agencies, indicate the | itted to date v | o each of the follo when the RMP wi | wing II be | agencies. mailed to th | If the RMP has at agency. If the | s he |
| RN | <u>AP for IDEM is attached to this application, please write "attached to this application, please write "attach</u> | ned" in | the Date Submit | ted c | olumn. | | |
| <u>R</u> Λ 5. | IP for IDEM is attached to this application, please write "attach Agency Name | 6. | the Date Submit | ted c 7. | olumn. Expected | Submittal Dat | te |
| 5. | AP for IDEM is attached to this application, please write "attached to the please write | 6. | the Date Submit Date Submitted | ted c 7. | Expected | Submittal Dat | te |
| 5. | AP for IDEM is attached to this application, please write "attached to this application, please write "attached agency Name Chemical Safety and Hazard Investigation Board (CSHIB) United States Environmental Protection Agency (U.S. EPA) | 6. | the Date Submit | ted c 7. | olumn. Expected | Submittal Dat | te |
| 5. | AP for IDEM is attached to this application, please write "attached to this application, please write "attached agency Name Chemical Safety and Hazard Investigation Board (CSHIB) United States Environmental Protection Agency (U.S. EPA) Indiana Department of Environmental Management (IDEM) | 6. | the Date Submit | 7. | olumn. Expected | Submittal Dat | te |

| Part C states actions to be | whether the source is or is not in taken in cases of noncompliance | n full compliance with all a e. | applicable require | ements and to ide | ntify corrective |
|---------------------------------------|--|---|--|---|---------------------------------------|
| 9. Check th | ne Most Accurate Statement. | | | | |
| The s | source described in this air pollut irements and will continue to com | ion control permit application permit the second | tion is fully in cor nts. | mpliance with all a | applicable |
| FOR perm | M CD-01 includes new requirement it. The source will meet such rec | ents that apply or will appl uirements on a timely ba | ly to the emission sis. | ns unit during the | term of the |
| L The s requi sche | source described in this air pollut irements, except for the emission dule identified below. | ion control permit applicat s unit(s) listed below. Co | tion is fully in cor mpliance will be | mpliance with all a achieved accordi | pplicable ng to the |
| 10. Unit ID | 11. Applicable Requirement | 12. Corrective Action | 13. Deadline | 14. Progress R | eports |
| | and a second | | | Start Date | Frequency |
| | | | | | |
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| 45.05 | | | | | |
| 15. Signatur | e of Responsible Official | | | | |
| I cer and | tify that, based on informati information presented are t | ion and belief formed rue, accurate and co | after reasona nplete. | ble inquiry, the | statements |
| Tim Menke | | Plant | Manager | | |
| Name (typed) |) | Title | | | |
| Signature | | Date | | | |
| Janara | | Dale | | | |
| | | | | | |

PART C: Certification of Source Compliance Status



OAQ FEDERAL RULE INCORPORATION APPLICATION FED-01: Summary of Federal Requirements – NSPS & NESHAP State Form 53512 (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 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.
 - 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 A: Identification of Applicable Standard | | | | | | | | | | |
|----|--|--|--|-----------------------|--|--|--|--|--|--|--|
| Pa | Part A identifies the applicable standard and affected source. | | | | | | | | | | |
| 1. | Type of Standard: | Part 60 NSPS | Part 61 NESHAP | Part 63 NESHAP (MACT) | | | | | | | |
| 2. | Subpart Letter: | LLL | | | | | | | | | |
| 3. | Source Category Name: | National Emission Sta Cement Manufacturir | National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry | | | | | | | | |
| 4. | Affected Source (Include all applicable emission unit IDs): | 3-40, 3-41, 3-42, 3-4: | 3, 3-44, 3-45, 3-46, 3-47, 3 | 3-48 | | | | | | | |

| Part B: Applica | ble Requireme | nts |
|-----------------|---------------|-----|
|-----------------|---------------|-----|

Part B specifies the specific requirements of the federal rule that are applicable to the process or emission unit.

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).

- 40 CFR 63.1340
- 40 CFR 63.1341
- 40 CR 63.1345
- 40 CFR 63.1347
- 40 CFR 63.1348
- 40 CR 63.149(a), (b)(2)
- 40 CFR 63.1350(f)
- 40 CFR 63.1351
- 40 CFR 63.1353
- 40 CFR 63.1354
- 40 CFR 63.1355
- •
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Part C: Performance Testing Requirements

| Pa | Part C identifies the performance testing requirements that are applicable to the process or emission unit. | | | | | | |
|----|---|--|--|--|--|--|--|
| 6. | Performance Testing: | Opacity | | | | | |
| 7. | Date of Initial Performance Test: | Within 180 days of startup | | | | | |
| 8. | Test Methods: | Method 9 | | | | | |
| 9. | 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 the federal standard that are applicable to the process or emission unit. | | | | | | | | | | |
| 11. Date Initial Notification was Submitted: | | | | | | | | | | |
| 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 pertaining to the applicable federal rule. Attach additional information using form GSD-09 as necessary.

Indiana Department Of Environmental Management Office Of Air Quality State Form 53512 (R / 1-10) NSPS & NESHAP Requirements FED-01 Page 3 of 3



OAQ FEDERAL RULE INCORPORATION APPLICATION FED-02: MACT Pre-Construction Review State Form 51905 (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

🖾 No

NOTES:

- The purpose of this form is to provide a standardized way for sources to request MACT preconstruction approval per 40 CFR 63.5.
- This is a required form for sources subject to the MACT pre-construction review requirements in 40 CFR 63.5.
- 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.

Part A: General Information

Part A identifies the applicable MACT standard and affected source, and determines whether 40 CFR Section 63.5 of the General Provisions is applicable to the affected source.

| 1. | MACT Subpart Letter: | LLL |
|----|----------------------------|---|
| | MACT Source Category Name: | National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry |
| 2. | Affected Source(s): | 3-40, 3-41, 3-42, 3-43, 3-44, 3-45, 3-46, 3-47, 3-48 |
| | | |

3. Will the proposed construction be a major source of HAP emissions? Yes

 Part B: Emissions Unit Information

 Part B identifies those emissions units that are part of the affected source and will be constructed or reconstructed.

 4. Unit ID:
 5. HAP Name or Type of HAP
 6. Quantity of HAP Emitted (specify units)

 Actual Emissions
 Potential To Emit

 NA
 9

 Image: Image:

| | Part C: Compliance Methods for New Affected S | Sources |
|----------------|---|---------------------------|
| Part C identif | es the compliance method chosen for each new affected source. | |
| 7. Unit ID: | 8. Compliance Method Description | 9. Control Efficiency (%) |
| | Monthly Visual Observations | |
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| Part D: Compliance Methods for Reconstructed Affected Sources | | | | | | | | | |
|---|---|--|----------------------------|--|--|--|--|--|--|
| Part D identifi | es the compliance method chosen | for each reconstructed affected source. | | | | | | | |
| 10. Unit ID: | 11. Description of Current Compliance Method | 12. Description of Proposed Compliance Method | 13. Control Efficiency (%) | | | | | | |
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Attachment A - Supporting Emission Calculation Tables

Supporting calculation tables are provided in this attachment for the potential emissions from the new clinker silo system and the addition clinker reclaim system.

Buzzi Unicem USA - Greencastle Plant

Maximum Hourly Production Rate (tons/hour)

Proposed Clinker Silo Emission Sources - Potential Emissions Calculations

| Maxim | Maximum Annual Hours of Operation (hours/year) 8,760 | | | | | | | | | | | | | | |
|----------|--|----------------------|--------------------------|---|---------------------|-----------------------|------------------------------------|------------------------------------|----------------|------------------------------|-------------------------------|------------------------------------|----------------|------------------------------|-------------------------------|
| | | | | DM | 1 | | | | Controlled | Emissions ⁴ | | | Uncontrolled | Emissions ⁴ | |
| Point ID | Source Description | Baghouse Point ID | Baghouse Equipment ID | Emission Factor (gr/acf) ^{1,2} | Flow Rate (acfm) | Control Efficiency | Building Control % ³ | PM Emission Rate (Ibs/hr) | PM (ton/yr) | PM ₁₀ (ton/yr) | PM _{2.5} (ton/yr) | PM Emission Rate (lbs/hr) | PM (ton/yr) | PM ₁₀ (ton/yr) | PM _{2.5} (ton/yr) |
| 3-40 | Belt 510V Transfer To Belt GC509723 | FF3-40 | GC509715 | 0.01 | 3,500 | 99.0% | | 0.30 | 1.31 | 1.12 | 0.39 | 30.00 | 131.40 | 111.69 | 39.42 |
| 3-41 | Belt GC509273 Transfer Into Silo 8 | FF3-41 | GC509801 | 0.01 | 15,000 | 99.0% | | 1.29 | 5.63 | 4.79 | 1.69 | 128.57 | 563.14 | 478.67 | 168.94 |
| 3-42 | Western Silo 8 Transfer To Belt GC509773 | FF3-42 | GC509767 | 0.01 | 850 | 99.0% | 90% | 0.01 | 0.03 | 0.03 | 0.01 | 7.29 | 31.91 | 27.12 | 9.57 |
| 3-43 | Eastern Silo 8 Transfer To Belt GC509773 | FF3-43 | GC509769 | 0.01 | 850 | 99.0% | 90% | 0.01 | 0.03 | 0.03 | 0.01 | 7.29 | 31.91 | 27.12 | 9.57 |
| 3-44 | Western Silo 8 Transfer To Belt GC509785 | FF3-44 | GC509787 | 0.01 | 850 | 99.0% | 90% | 0.01 | 0.03 | 0.03 | 0.01 | 7.29 | 31.91 | 27.12 | 9.57 |
| 3-45 | Eastern Silo 8 Transfer To Belt GC509785 | FF3-45 | GC509789 | 0.01 | 850 | 99.0% | 90% | 0.01 | 0.03 | 0.03 | 0.01 | 7.29 | 31.91 | 27.12 | 9.57 |
| 3-46 | Beits GC509773 And GC509785 Transfer To Belt GC509749 | FF3-46 | GC509729 | 0.01 | 5,700 | 99.0% | | 0.49 | 2.14 | 1.82 | 0.64 | 48.86 | 213.99 | 181.90 | 64.20 |
| 3-47 | Belt GC509749 To Belt 511V | FF3-47 | GC509737 | 0.01 | 2,300 | 99.0% | | 0.20 | 0.86 | 0.73 | 0.26 | 19.71 | 86.35 | 73.40 | 25.90 |
| 3-48 | Reclaim Hopper GC509755 To Belt GC509743 To Belt GC509749 | FF3-48 | GC509805 | 0.01 | 8,000 | 99.0% | | 0.69 | 3.00 | 2.55 | 0.90 | 68.57 | 300.34 | 255.29 | 90.10 |
| TOTALS: | | | | | 13.08 | 11.12 | 3.92 | | 1,422.87 | 1,209.44 | 426.86 | | | | |

Note 1: PM₁₀ and PM_{2.5} emissions were calculated assuming PM₁₀ is 85% of PM and PM_{2.5} is 30% of PM per AP-42 Appendix B.2 Category 4.

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Note 2: The 0.01 gr/acfm PM emission factor incorporates a baghouse control efficiency of 99.0%.

Note 3: The transfer points and associated baghouses exhaust within a tunnel, so an additional 90% control efficiency is applied to account for the building enclosure.

Note 4: The baghouses will be used whenever the associated belts are in operation to ensure environmental compliance, but also to protect product quality and the safety of employees in the area.

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Dept of Environmental Mgmt Office of Air Quality

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