217/785-1705

JOINT GENERAL CONSTRUCTION AND LIFETIME OPERATING PERMIT

FOR PORTABLE EMISSION UNIT (central; high control)

PERMITTEE

‘VARIABLE’

Attn: ‘VARIABLE’

‘VARIABLE’

‘VARIABLE’

Application No.: ‘VARIABLE’ I.D. No.: ‘VARIABLE’

Applicant’s Designation: ‘VARIABLE’ Date Received: ‘VARIABLE’

Subject: Portable Concrete Central Mix Batch Plant

Date Issued: ‘VARIABLE’ Permit Expiration Date: See Condition 1.

Base or Initial Location: ‘VARIABLE’

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

One Central Mix Concrete Batch Plant as specified below in Findings:

## Findings

1. This joint general construction and lifetime operating permit is applicable to a concrete batch plant that meets the following criteria:

 a. The source is eligible for a permit issued pursuant to 35 Ill. Adm. Code 201.169(a) and 201.170.

 b. The sum of concrete produced (dry basis) shall not exceed 4,300,000 tons (2,150,000 cubic yards) per year; and

c. The particulate matter emissions from the silo loading and mixer loading are controlled by baghouses or dust collectors.

2a. A concrete batch plant includes all aggregate transfer, weigh hopper loading, mixer loading, truck loading, cement and/or fly ash silo loading and transferring at the site.

 b. Other facilities, such as an aggregate processing plant, asphalt mix plants, or any other process units, are not allowed to operate at the concrete batch plant site.

3. This permit imposes conditions on activities at the concrete batch plant to assure compliance with applicable requirements of 35 Ill. Adm. Code Part 212, Subpart B: Visible Emissions, Subpart K: Fugitive Particulate Matter, and Subpart L: Particulate Matter Emissions From Process Emission Units.

## Conditions

This permit is subject to standard conditions attached hereto and the following special conditions:

1. a. This permit is effective only if the Permittee has complied with all standard conditions of the construction permit.

b. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.

c. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.

d. This permit shall terminate if it is withdrawn or is superseded by a revised permit.

2. This permit allows the construction and/or operation of a concrete batch plant not exceeding:

a. Fourteen silo(s) with baghouse/dust collector control;

b. Three cement hoppers and mixers;

c. Fifteen transfer systems; and

d. Three mixer loading systems with baghouse control or dust collectors.

3. This permit does not exempt the Permittee from obtaining a Construction and/or Operating Permit for any additional emission units in excess of those units specified in Special Condition 2, unless such emission units or operations are already exempted from permitting requirements pursuant to 35 Ill. Adm. Code 201.146.

4. Pursuant to 35 Ill. Adm. Code 201.170(a), an emission unit is portable provided that the emission unit meets the following criteria:

a. Emissions from the emission unit are expected to occur for less than one year at this and any other site;

b. The emission unit of air pollution is subject to the requirements of 35 Ill. Adm. Code 201.169;

c. The emission unit or group of emission units that will be changing sites is permitted to emit less than 25 tons per year of any combination of regulated air pollutants;

d. The emission unit is mounted on a chassis or skids and is designed to be moveable; and

e. The emission unit is not used as a thermal desorption system pursuant to 35 Ill. Adm. Code Part 728 Table F or as an incinerator system.

5. Pursuant to 35 Ill. Adm. Code 201.170(b), an owner or operator of a portable emission unit may change the site of the unit without obtaining a new construction or operating permit pursuant to 35 Ill. Adm. Code 201.142, 201.143, or 201.169, provided that the owner or operator meets the following requirements:

a. The owner or operator has obtained a construction and operating permit containing special conditions as required by 35 Ill. Adm. Code 201.170(c) for the emission unit, or is exempt pursuant to 35 Ill. Adm. Code 201.170(d).

b. If a permit issued pursuant to 35 Ill. Adm. Code 201.170(c) includes more than one emission unit, the owner or operator shall move all emission units covered by the permit to the new site.

c. The owner or operator does not locate the emission unit on a site with a source:

i. That is subject to the requirements of Section 39.5 of the Act; or

ii. That would become subject to the requirements of Section 39.5 of the Act if the emissions of all regulated pollutants from the portable emission unit were included in such source’s potential to emit.

d. The owner or operator does not modify the operation of the emission unit in such a way so as to:

i. Make the emission unit subject to New Source Review (NSR) requirements pursuant to 35 Ill. Adm. Code 203 or to Prevention of Significant Deterioration (PSD) pursuant to Section 9.1(a) of the Act; or

ii. Make the emission unit a support facility of a source that is subject to Section 39.5 of the Act.

e. At least three days prior to moving the emission unit to a new site, the owner or operator shall notify the Illinois EPA by certified mail. The notification shall include the items listed in 35 Ill. Adm. Code 201.170(b)(5), unless the emission unit is exempt pursuant to 35 Ill. Adm. Code 201.170(d):

i. The location of the new site;

ii. The estimated emissions of all regulated air pollutants while located at the new site; and

iii. That the operation for the emission unit will be consistent with its construction and operating permits.

f. The owner or operator shall keep a copy of the construction and operating permits for that emission unit on the site where the emission unit is in operation.

6. Emissions and operation of the central mix concrete batch plant shall not exceed the following limits:

a. The sum of concrete produced (dry basis) shall not exceed 4,300,000 tons (2,150,000 cubic yards) per year;

b. The particulate matter emissions from the silos and mixer loading shall be controlled by a baghouse/dust collector; and

c. Emissions of particulate matter shall not exceed 5.0 tons/month and 23.24 tons/year. Compliance with annual limits shall be determined on a monthly basis from the sum of the current month plus the preceding eleven months.

7a. Sources located in certain areas designated in 35 Ill. Adm. Code 212.302(a) shall comply with the applicable portions of 35 Ill. Adm. Code 212.304 through 212.310 and 212.312.

 b. Sources located in certain areas designated in 35 Ill. Adm. Code 212.302(b) and 212.324(a)(1) shall comply with the applicable portions of 35 Ill. Adm. Code 212.304 through 212.310, 212.312, and 212.316.

8a. The central mix concrete batch plant shall not cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity that is visible beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.

 b. The Permittee shall comply with the opacity limitations of 35 Ill. Adm. Code 212.123 and the particulate matter emission limitations of 35 Ill. Adm. Code 212.321.

9a. The central mix concrete batch plant shall be operated in accordance with good operating practices to minimize particulate matter emissions.

 b. Inspections of the plant and control systems equipment and operations shall be performed as necessary but at least once per week when the plant is in operation to confirm compliance with the above requirements.

 c. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic inspections and maintenance on the equipment covered under this permit such that the equipment be kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.

 d. Pollution control devices shall be in operation at all times when the associated emission unit(s) is in operation and emitting air contaminants.

10. Permittee shall keep following records on a monthly basis:

a. Concrete production (tons/month, and tons/year);

b. Cement and fly ash receipts (tons/month, and tons/year); and

c. Particulate matter emissions (tons/month and tons/year)with supporting calculations.

11. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

12. If there is an exceedance of or deviation from the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA’s Compliance Section in Springfield, Illinois within 30 days after the exceedance/deviation. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or deviation and efforts to reduce emissions and future occurrences.

13. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency

Division of Air Pollution Control

Compliance Section (#40)

P.O. Box 19276

Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the appropriate Illinois EPA Regional Office at the following address unless otherwise indicated:

Illinois Environmental Protection Illinois EPA

Division of Air Pollution Control – Region 1

9511 West Harrison

Des Plaines, Illinois 60016

Illinois Environmental Protection Illinois EPA

Division of Air Pollution Control – Region 2

412 SW Washington Street

Suite D

Peoria, IL 61602

Illinois Environmental Protection Illinois EPA

Division of Air Pollution Control – Region 3

2009 Mall Street

Collinsville, Illinois 62234

14. The lifetime general operating permit must be revised for any of the following changes at the source:

a. An increase in emissions above the amount the emission unit or the source is permitted to emit;

b. A modification;

c. A change in operations that will result in the source’s noncompliance with conditions in the existing permit; or

d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

If you have any questions on this permit, please contact the Permit Section at 217/785-1705.

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| --- | --- |
| Raymond E. Pilapil | Date Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Acting Manager, Permit Section

Division of Air Pollution Control

REP:’VARIABLE’:’VARIABLE’

cc: Region ‘VARIABLE’

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from a central mix concrete plant operating in compliance with the requirements of this permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant with a concrete throughput of not more than 4,300,000 tons (2,150,000 cubic yards) per year. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Emission Factor | Emissions |
|  | Throughput | PM | PM10 | PM | PM10 |
| Operation | (Tons/Yr) | (Lbs/Ton) | (Lbs/Ton) | (Tons/Yr) | (Tons/Yr) |
|  |  |  |  |  |  |
| Aggregate Transfer | 2,004,875 | 0.0069 | 0.0033 | 6.92 | 3.31 |
| Sand Transfer | 1,535,100 | 0.0021 |  0.00099 | 1.62 | 0.76 |
| Cement Silo Loading \* | 527,825 |  0.00099 |  0.00034 | 0.27 | 0.09 |
| Cement Supplement Loading\* | 78,475 | 0.0089 | 0.0049 | 0.35 | 0.20 |
| Weigh Hopper Loading | 3,539,975 | 0.0048 | 0.0028 | 8.50 | 4.96 |
| Mixer Loading\*\*,\* | 606,300 | 0.0184 | 0.0055 | 5.58 | 1.67 |
|  |  |  | Totals | 23.24 | 10.99 |

\* Particulate matter control due to baghouse/dust collector.

\*\* Based on cement and cement supplement only.

These emissions are based on standard AP-42 emission factors and the average composition of concrete as detailed in AP-42, Chapter 11.12, and a maximum concrete throughput of 4,300,000 tons (2,150,000 cubic yards) per year.

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