

217/782-2113

LIFETIME GENERAL OPERATING PERMIT FOR A CENTRAL MIX CONCRETE BATCH PLANT

PERMITTEE

NAME: _____
Attn: _____
Street Address: _____
City, State & Zip Code: _____

Application No.: _____ I.D. No.: _____
Applicant's Designation: _____ Date Received: _____
Subject: Central Mix Concrete Batch Plant
Date Issued: _____ Expiration Date: See Condition 1.
Location: _____

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

Central Mix Concrete Batch Plant as specified below in Findings:

Findings

1. This general lifetime operating permit is applicable to a concrete batch plant that meets the following criteria:
 - a. The sum of concrete produced (dry basis) shall not exceed 580,000 tons (290,000 cubic yards) per year; and
 - b. The particulate matter emissions from the silo loading are controlled by a baghouse.
- 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 condition(s):

- 1.a. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.
- b. This permit shall terminate if it is withdrawn or is superseded by a revised permit.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 control;
 - b. Three cement hoppers and mixers;
 - c. Fifteen transfer systems; and
 - d. Three mixer loading systems.
3. Emissions of particulate matter from the concrete batch plant shall not exceed 5.0 tons/month and 24.8 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.
4. 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.
- 5a. 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.
6. The Permittee 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.
7. 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.
- 8a. The 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. Pollution control devices shall be in operation at all times when the associated emission unit(s) is in operation and emitting air contaminants.
9. 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.
- 10. 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.
- 11. 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.
- 12. 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
5415 North University
Peoria, Illinois 61614

Illinois Environmental Protection Illinois EPA
Division of Air Pollution Control - Region 3
2009 Mall Street
Collinsville, Illinois 62234

- 13. The lifetime 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.
14. This Permit will expire on the day operation ceases at this location.

If you have any questions on this permit, please contact _____ at 217/782-2113.

Edwin C. Bakowski, P.E.
Acting Manager, Permit Section
Division of Air Pollution Control

ECB:___:psj

cc: Region _

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 580,000 tons (290,000 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.

<u>Operation</u>	<u>Throughput (Tons/Yr)</u>	<u>Emission Factor</u>		<u>Emissions</u>	
		<u>PM (Lb/Ton)</u>	<u>PM₁₀ (Lb/Ton)</u>	<u>PM (Ton/Yr)</u>	<u>PM₁₀ (Ton/Yr)</u>
Aggregate Transfer	270,425	0.0069	0.0033	0.94	0.45
Sand Transfer	207,060	0.0021	0.00099	0.22	0.11
Cement Silo Loading*	71,195	0.00099	0.00034	0.04	0.02
Cement Supplement Loading*	10,585	0.0089	0.0049	0.05	0.03
Weigh Hopper Loading	477,485	0.0051	0.0024	1.22	0.58
Mixer Loading**	81,780	0.544	0.134	<u>22.24</u>	<u>5.48</u>
			Totals:	24.71	6.67

* Particulate matter control due to baghouse.

** 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 580,000 tons (290,000 cubic yards) per year.

____:psj