



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

<Enter Date>

<Enter Contact Name>  
<Enter Title>  
<Enter Company Name>  
<Enter Mailing Address>

Subject: Air Permit No. <Permit Number>  
**GENERAL AIR PERMIT FOR CONCRETE BATCH PLANTS**  
<Enter Company Name>  
<Enter City>, <Enter County> County, North Carolina  
Permit Class: General Small  
Facility ID# <Enter Facility ID>

Dear <Enter Contact Name>.:

In accordance with your completed application received <Enter Date Received>, we are forwarding herewith Permit No. <Permit Number> to <Enter Company Name>, <Enter City>, <Enter County> County, North Carolina for the construction and operation of air emissions sources or air cleaning devices and appurtenances. Additionally, any emissions activities determined from your air permit application as meeting the exemption requirements contained in 15A NCAC 2Q .0102 have been listed for information purposes as an "ATTACHMENT" to the enclosed air permit. Please note the records retention requirements are contained in General Condition 2 of the General Conditions and Limitations.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. Such a request will stay the effectiveness of the entire permit. This hearing request must be in the form of a written petition, conforming to G.S. 150B-23 of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Unless a request for a hearing is made pursuant to G.S. 150B-23, this air permit shall be final and binding.

You may request modification of your air permit through informal means pursuant to G.S. 150B-22. This request must be submitted in writing to the Director and must identify the specific

<Enter Regional Office Name>  
<Enter Regional Office Address>  
<Enter Regional Office Phone Number/Fax Number>  
Internet: [www.ncdenr.gov](http://www.ncdenr.gov)

<Enter Contact Name>

<Enter Date>

Page 2

provisions or issues for which the modification is sought. Please note that the permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under G.S. 150B-23.

**Unless exempted by a condition of this permit or the regulations, construction of new air pollution sources or air cleaning devices, or modifications to the sources or air cleaning devices described in this permit must be covered under a permit issued by the Division of Air Quality prior to construction. Failure to do so is a violation of G.S. 143-215.108 and may subject the Permittee to civil or criminal penalties as described in G.S. 143-215.114A and 143-215.114B.**

This permit shall be effective from <Enter Effective Date> until <Enter Expiration Date>, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

**Changes have been made to the permit stipulations. The Permittee is responsible for carefully reading the entire permit and evaluating the requirements of each permit stipulation. The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.** Should you have any questions concerning this matter, please contact <Enter Engineer Name> at <Enter Engineer Phone Number>.

Sincerely,

<Enter Regional Supervisor Name>, Regional Supervisor  
Division of Air Quality, NCDENR

<Enter Engineer Initials>

Enclosures

c: <Enter Regional Office Name>

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF AIR QUALITY

**AIR PERMIT NO. <Permit Number>**

Issue Date: <Enter Issue Date>

Effective Date: <Enter Effective Date>

Expiration Date: <Enter Expiration Date>

Replaces Permit: <Permit Number>

---

To construct and operate air emission source(s) and/or air cleaning device(s), and for the discharge of the associated air contaminants into the atmosphere in accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina (NCGS) as amended, and other applicable Laws, Rules and Regulations,

<Enter Company Name>

<Enter Facility Street Address>

<Enter City>, <Enter County> County, North Carolina

Permit Class: General Small

Facility ID# <Enter Facility ID>

(the Permittee) is hereby authorized to construct and operate the air emissions sources and/or air cleaning devices and appurtenances described below:

One Concrete batch plant with fabric filter air pollution control system(s) installed on all sources;

1. One (1) cement mixing weigh hopper and loading operation; and,
2. Silos for cement and flyash storage.

in accordance with the completed application <Enter Application No.> received <Enter Receipt Date> including any plans, specifications, previous applications, and other supporting data, all of which are filed with the Department of Environment and Natural Resources, Division of Air Quality (DAQ) and are incorporated as part of this permit.

This permit is subject to the following specified conditions and limitations including any TESTING, REPORTING, OR MONITORING REQUIREMENTS:

## A. SPECIFIC CONDITIONS AND LIMITATIONS

1. Any air emission sources or control devices authorized to construct and operate above must be operated and maintained in accordance with the provisions contained herein. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A North Carolina Administrative Code (NCAC), Subchapter 2D .0202, 2D .0515, 2D .0521, 2D .0535, 2D .0540, 2D .0611, 2D .1100, 2Q .0310 and 2Q .0711.
2. PERMIT RENEWAL AND EMISSION INVENTORY REQUIREMENT - The Permittee, at least 90 days prior to the expiration date of this permit, shall request permit renewal by letter in accordance with 15A NCAC 2Q .0304(d) and (f). Pursuant to 15A NCAC 2Q .0203(i), no permit application fee is required for renewal of an existing air permit (without a modification request). The renewal request (with AA application form) should be submitted to the Regional Supervisor, DAQ. Also, at least 90 days prior to the expiration date of this permit, the Permittee shall submit the air pollution emission inventory report (with Certification Sheet) in accordance with 15A NCAC 2D .0202, pursuant to N.C. General Statute 143 215.65. The report shall be submitted to the Regional Supervisor, DAQ and shall document air pollutants emitted for the 2021 calendar year.
3. PARTICULATE CONTROL REQUIREMENT - As required by 15A NCAC 2D .0515 "Particulates from Miscellaneous Industrial Processes," particulate matter emissions from the emission sources shall not exceed allowable emission rates. The allowable emission rates are, as defined in 15A NCAC 2D .0515, a function of the process weight rate and shall be determined by the following equation(s), where P is the process throughput rate in tons per hour (tons/hr) and E is the allowable emission rate in pounds per hour (lbs/hr).  
$$E = 4.10 * (P)^{0.67} \quad \text{for } P \leq 30 \text{ tons/hr, or}$$
$$E = 55 * (P)^{0.11} - 40 \quad \text{for } P > 30 \text{ tons/hr}$$
4. VISIBLE EMISSIONS CONTROL REQUIREMENTS - As required by 15A NCAC 2D .0521 "Control of Visible Emissions," visible emissions from the permitted sources shall meet the visible emissions control requirements listed below:
  - a. Visible emissions from sources manufactured after July 1, 1971 shall not be more than 20 percent opacity when averaged over a six-minute period, except that six-minute periods averaging not more than 87 percent opacity may occur not more than once in any hour nor more than four times in any 24-hour period.
  - b. Visible emissions from sources manufactured as of July 1, 1971 shall not be more than 40 percent opacity when averaged over a six-minute period, except that six-minute periods averaging not more than 90 percent opacity may occur not more than once in any hour nor more than four times in any 24-hour period.

However, sources which must comply with 15A NCAC 2D .0524 "New Source Performance Standards" or .1111 "National Emission Standards for Hazardous Air Pollutants" must comply with applicable visible emissions requirements contained therein *instead of* the standard listed above.

5. NOTIFICATION REQUIREMENT - As required by 15A NCAC 2D .0535, the Permittee of a source of excess emissions that last for more than four hours and that results from a malfunction, a breakdown of process or control equipment or any other abnormal conditions, shall:
- a. Notify the Director or his designee of any such occurrence by 9:00 a.m. Eastern time of the Division's next business day of becoming aware of the occurrence and describe:
    - i. the name and location of the facility,
    - ii. the nature and cause of the malfunction or breakdown,
    - iii. the time when the malfunction or breakdown is first observed,
    - iv. the expected duration, and
    - v. an estimated rate of emissions.
  - b. Notify the Director or his designee immediately when the corrective measures have been accomplished.

This reporting requirement does not allow the operation of the facility in excess of Environmental Management Commission Regulations.

6. FUGITIVE DUST CONTROL REQUIREMENT - As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f).

"Fugitive dust emissions" means particulate matter that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

7. FABRIC FILTER REQUIREMENT - Particulate matter emissions from the permitted equipment shall be controlled by fabric filters. Pursuant to 15A NCAC 2D .0611, the Permittee shall inspect and maintain the fabric filters as provided below:
- a. Inspection and Maintenance Requirements - To comply with the provisions of this permit and ensure that emissions do not exceed the regulatory limits, the Permittee shall perform, at a minimum, an annual (for each 12 month period following the initial inspection) internal inspection of the fabric filter system. In addition, the Permittee shall perform periodic inspections and maintenance as recommended by the equipment manufacturer.
  - b. Recordkeeping Requirements - The results of all inspections and any variance from manufacturer's recommendations or from those given in this permit (when

applicable), shall be investigated with corrections made and dates of actions recorded in a logbook. Records of all maintenance activities shall be recorded in the logbook. The logbook (in written or electronic form) shall be kept on-site and made available to DAQ personnel upon request.

8. TOXIC AIR POLLUTANT CONTROL REQUIREMENTS - The facility shall not emit arsenic in such quantities that may cause an exceedance of the acceptable ambient level (AAL) pursuant to 15A NCAC 2D .1104. To demonstrate compliance with this requirement, the Permittee shall limit the quantity of concrete processed to less than the applicable "Maximum Concrete Production Rate", as listed below, based on the type of facility (truck mix or central mix) and the facility's "Minimum Distance to Property Line." "Minimum distance to property line" is the distance from the cement mixing weigh hopper to the *closest point* of the facility's property line.

For Truck Mix Facilities:

<u>Minimum Distance to Property Line</u>	<u>Maximum Concrete Production Rate *</u>
<u>meters/feet</u>	<u>yd<sup>3</sup>/year</u>
10 m / 32.8 ft	233,500
15 m / 49.2 ft	284,500
20 m / 65.6 ft	340,500
25 m / 82.0 ft	392,500
30 m / 98.4 ft	438,500
35 m / 114.8 ft	508,500
40 m / 131.2 ft	615,500
45 m / 147.6 ft	680,500
50 m / 164.0 ft	742,500
55 m / 180.4 ft	815,500
60 m / 196.8 ft	896,000

For Central Mix Facilities:

<u>Minimum Distance to Property Line</u>	<u>Maximum Concrete Production Rate *</u>
<u>meters/feet</u>	<u>yd<sup>3</sup>/year</u>
10 m / 32.8 ft	327,000
15 m / 49.2 ft	417,000
20 m / 65.6 ft	581,000
25 m / 82.0 ft	766,500
30 m / 98.4 ft	1,002,500
35 m / 114.8 ft	1,358,000
40 m / 131.2 ft	1,358,000
45 m / 147.6 ft	1,358,000
50 m / 164.0 ft	1,358,000

55 m / 180.4 ft

1,358,000

60 m / 196.8 ft

1,358,000

\*The "Maximum Concrete Production Rate" may not be interpolated for property line distances falling between two values listed above. (For example, a Truck Mix facility with a "Minimum Distance to Property Line" of less than 60 meters but greater than or equal to 55 meters would be subject to a "Maximum Concrete Production Rate" of 815,500 yd<sup>3</sup>/yr.)

- a. Property Line Identification - The Permittee shall maintain a physical marker at the point on the property line used to establish the "Minimum Distance to Property Line", as defined above. The physical marker may consist of any fixture, including (but not limited to) a property line fence or a pole or stake installed at the point for the specific purpose of meeting this requirement.
  - b. Monitoring/Recordkeeping Requirements - The Permittee shall maintain the following records in a logbook. The logbook (in written or electronic form) shall be kept on-site and made available to DAQ personnel upon request.
    - i. Each calendar month, the Permittee shall record the quantity of concrete processed during the previous calendar month (in yd<sup>3</sup>/month); and,
    - ii. Each calendar year, the Permittee shall record the quantity of concrete processed between January 1<sup>st</sup> and December 31<sup>st</sup> of the previous calendar year (in yd<sup>3</sup>/year).
  - c. Notification Requirement - The Permittee shall submit a notification to the Regional Supervisor within 15 days of installing an additional cement silo and/or flyash silo. The notification shall include the following:
    - i. A description of the proposed silo, including storage capacity and material stored;
    - ii. A description of the proposed emission control; and,
    - iii. A statement indicating that the facility shall continue to qualify for the general permit, as described in Specific Condition No. 9 of this permit.
9. In accordance with 15A NCAC 2Q .0310, the facility shall qualify for this general permit provided it meets EACH of the following criteria:
- a. The facility does not operate any emission sources other than emission sources listed on Page 1 of this permit.
  - b. The facility is not subject to any 15A NCAC 2D or 2Q regulation not addressed in Specific Condition No. 1.
  - c. The facility is located in one of the following counties:

Alamance Cumberland Harnett

North Hampton Scotland

Anson	Currituck	Hertford	Onslow	Stanly
Beaufort	Dare	Hoke	Orange	Stokes
Bladen	Davidson	Hyde	Pamlico	Surry
Brunswick	Davie	Iredell	Pasquotank	Tyrrell
Cabarrus	Duplin	Johnston	Pender	Union
Camden	Durham	Jones	Perquimans	Vance
Carteret	Edgecombe	Lee	Person	Wake
Caswell	Franklin	Lenoir	Pitt	Warren
Catawba	Gaston	Lincoln	Randolph	Washington
Chatham	Gates	Martin	Richmond	Wayne
Chowan	Granville	Montgomery	Robeson	Wilson
Cleveland	Greene	Moore	Rockingham	Yadkin
Columbus	Guilford	Nash	Rowan	
Craven	Halifax	New Hanover	Sampson	

- d. The facility is a **truck mix or a central mix concrete batch plant** that does not process more concrete during any calendar year than the maximum production rate, as listed below, applicable to the facility based on its "minimum distance to property line". "Minimum distance to property line" is the distance from the cement mixing weigh hopper to *closest point* of the facility's property line.

For Truck Mix Facilities:

<u>Minimum Distance to Property Line</u>	<u>Maximum Concrete Production Rate *</u>
<u>meters/feet</u>	<u>yd<sup>3</sup>/year</u>
10 m / 32.8 ft	233,500
15 m / 49.2 ft	284,500
20 m / 65.6 ft	340,500
25 m / 82.0 ft	392,500
30 m / 98.4 ft	438,500
35 m / 114.8 ft	508,500
40 m / 131.2 ft	615,500
45 m / 147.6 ft	680,500
50 m / 164.0 ft	742,500
55 m / 180.4 ft	815,500
60 m / 196.8 ft	896,000

For Central Mix Facilities:

<u>Minimum Distance to Property Line</u>	<u>Maximum Concrete Production Rate *</u>
<u>meters/feet</u>	<u>yd<sup>3</sup>/year</u>



10 m / 32.8 ft	327,000
15 m / 49.2 ft	417,000
20 m / 65.6 ft	581,000
25 m / 82.0 ft	766,500
30 m / 98.4 ft	1,002,500
35 m / 114.8 ft	1,358,000
40 m / 131.2 ft	1,358,000
45 m / 147.6 ft	1,358,000
50 m / 164.0 ft	1,358,000
55 m / 180.4 ft	1,358,000
60 m / 196.8 ft	1,358,000

\*The "Maximum Concrete Production Rate" may not be interpolated for property line distances falling between two values listed above. (For example, a Truck Mix facility with a "Minimum Distance to Property Line" of less than 60 meters but greater than or equal to 55 meters would be subject to a "Maximum Concrete Production Rate" of 815,500 yd<sup>3</sup>/yr.)

10. **TOXIC AIR POLLUTANT EMISSION LIMITATIONS** - Pursuant to 15A NCAC 2Q .0711 "Emission Rates Requiring a Permit," for each of the toxic air pollutants (TAPs) listed below, facility-wide actual emissions may not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711(a):

<b>Pollutant</b>	<b>Carcinogens (lb/yr)</b>	<b>Chronic Toxicants (lb/day)</b>	<b>Acute Systemic Toxicants (lb/hr)</b>	<b>Acute Irritants (lb/hr)</b>
Beryllium	0.28			
Cadmium	0.37			
Chromium*		0.013		
Manganese and compounds		0.63		
Nickel metal		0.13		

\*"Chromium" includes all soluble chromate compounds, as chromium (VI) equivalent.

The Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" PRIOR to exceeding any of the listed TPERs.

### **B. GENERAL CONDITIONS AND LIMITATIONS**

1. In accordance with G.S. 143-215.108(c)(1), TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR RENEWAL, AND ANY OTHER INFORMATION REQUIRED BY THIS PERMIT shall be submitted to the:

Regional Supervisor  
North Carolina Division of Air Quality  
<Enter Regional Office Name> Regional Office  
<Enter Regional Office Address>  
<Enter Regional Office Telephone No.>

For identification purposes, each submittal should include the facility name as listed on the permit, the facility identification number, and the permit number.

2. RECORDS RETENTION REQUIREMENT - In accordance with 15A NCAC 2D .0605, any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.
3. ANNUAL FEE PAYMENT - Pursuant to 15A NCAC 2Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.
4. EQUIPMENT RELOCATION - In accordance with 15A NCAC 2Q .0301, a new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.
5. REPORTING REQUIREMENT - In accordance with 15A NCAC 2Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:
  - a. changes in the information submitted in the application regarding facility emissions;
  - b. changes that modify equipment or processes of existing permitted facilities; or
  - c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

6. In accordance with 15A NCAC 2Q .0309, this permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. In accordance with G.S. 143-215.108(c)(1), the facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air cleaning device(s) and appurtenances.
7. In accordance with G.S. 143-215.108(c)(1), this permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.

8. In accordance with G.S. 143-215.108(c)(1), this issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.
9. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.
10. In accordance with 15A NCAC 2D .0605, reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.
11. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.
12. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
13. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.
14. PERMIT RETENTION REQUIREMENT - In accordance with 15A NCAC 2Q .0110, the Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.
15. CLEAN AIR ACT SECTION 112(r) REQUIREMENTS - Pursuant to 15A NCAC 2D .2100 "Risk Management Program," if the Permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan with the USEPA in accordance with 40 CFR Part 68.
16. PREVENTION OF ACCIDENTAL RELEASES - GENERAL DUTY - Pursuant to Title I Part A Section 112(r)(1) of the Clean Air Act "Hazardous Air Pollutants - Prevention of Accidental Releases - Purpose and General Duty," although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release. **This condition is federally-enforceable only.**

17. GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS - If emissions testing is required by this permit, or the DAQ, or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval.

Permit issued this the <Enter Day of Issue> of <Enter Month of Issue>, <Enter Year of Issue>.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

<Enter Regional Supervisor Name>

Regional Supervisor

By Authority of the Environmental Management Commission

Air Permit No. <Permit Number>

DRAFT