

**OFFICE OF ENVIRONMENTAL QUALITY CONTROL
BUREAU OF AIR QUALITY
SYNTHETIC MINOR CONSTRUCTION PERMIT**

McCarthy Improvement Company
21402 Highway 221 North
Laurens, SC 29360

Permission is hereby granted to construct two central mix concrete batch plants. Plant #1 will consist of a 300 yd³/hr Rexcon Logo 12 Central Mix Concrete Batch Plant, a split silo (cement and flyash compartments), five bulk storage bins for additional cement and flyash storage, a 545kW (1.86x10⁶ BTU/hr) No. 2 fuel oil (diesel) fired generator, two 5,000-gallon No. 2 fuel oil storage tanks, and four 3,000-gallon concrete admixture tanks. Particulate matter emissions from the silos, weigh batcher, and central mixer will be controlled by a C&W RA-200 Bag-type Central Dust Collector with a 99.9% efficiency. Plant #2 will consist of a 250 yd³/hr Rexcon Logo 10 Central Mix Concrete Batch Plant, a split silo (cement and flyash compartments), five bulk storage bins for additional cement and flyash storage, a 320kW (1.09x10⁶ BTU/hr) No. 2 fuel oil (diesel) fired generator, a 5,000-gallon No. 2 fuel oil storage tank, and four 3,000-gallon concrete admixture tanks. Particulate matter emissions from the silos, weigh batcher, and central mixer will be controlled by a McNeilus RA-1500 Central Dust Collector with a 99.9% efficiency. **This permit is being issued under SC Regulation 61-62.1, Section II(E) - Synthetic Minor Construction Permits.**

NOTWITHSTANDING ANY OF THE CONDITIONS LISTED BELOW, NO APPLICABLE LAW, REGULATION, OR STANDARD WILL BE CONTRAVENED.

CONDITIONS

1. All official correspondence, plans, permit application forms, and written statements are an integral part of this permit.
2. The owner/operator shall submit written notification to the Director of the Engineering Services Division of the date construction is commenced, postmarked no later than 30 days after such date, and written notification of the actual date of initial startup of each new or altered source, postmarked within 15 days after such date.

PERMIT NUMBER: 9900-0564-CA
DATE OF ISSUE: <DRAFT >
FACILITY SIC/NAICS CODES: 3273 / 327320

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3. Approval to construct shall become invalid if construction is not commenced within 18 months after receipt of such approval, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time frame. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.
4. The owner or operator shall comply with all terms, conditions, and limitations of this permit.

This is pursuant to the provisions of Section 48-1-110, 1976 *Code of Laws of South Carolina*, as amended, and the *South Carolina Air Quality Control Regulation 61-62.1*, Section II.

I. STANDARD CONDITIONS

- A. This permit expressly incorporates all the provisions of *South Carolina Department of Health and Environmental Control Regulation 61-62.1*, Section II, Paragraph J.

II. SPECIAL CONDITIONS

A. EMISSION LIMITATIONS

Air pollutant emissions shall not exceed the following:

ID	Pollutant/Standard	Limit	Reference Method	Regulation	State Only
Plant 1	PM	71.2 lb/hr (total)	AAB	SC Regulation 61-62.5, Standard 4, Section VIII	No
Plant 2	PM	69.0 lb/hr (total)	AAB	SC Regulation 61-62.5, Standard 4, Section VIII	No
Plants 1/2	Opacity	20% (each piece)	Method 9	SC Regulation 61-62.5, Standard 4, Section IX	No
Plants 1/2	PM	< 250 ton/yr (total)	AAB	SC Regulation 61-62.1, Section II(E)	No
Plants 1/2	PM ₁₀	< 100 ton/yr (total)	AAB	SC Regulation 61-62.1, Section II(E)	No

N/A = Not Applicable

AAB = As Approved by BAQ

The emission limitations listed for each emission unit are based on operation at permitted capacity. Operation at less than permitted capacity must meet emission limits specified in the applicable regulations based on that operating rate. All test methods must be the most recent revisions that are published in the *Code of Federal Regulations*, in accordance with the requirements of SC Regulation 61-62.1, Section IV, Source Test.

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B. CONTINUOUS MONITORING REQUIREMENTS

ID	Pollutant
N/A	N/A

N/A = Not Applicable

C. SOURCE TEST SCHEDULE

ID	Pollutant	Frequency	Method
N/A	N/A	N/A	N/A

N/A = Not Applicable

D. ADDITIONAL CONDITIONS

Condition Number	Conditions
1.	The permittee shall pay fees in accordance with SC Regulation 61-30, SC Environmental Protection Fees.
2.	In accordance with SC Regulation 61-62.1 Section II(J), for all sources not required to have continuous emissions monitors, in the event of any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the local Environmental Quality Control (EQC) Regional office within twenty-four (24) hours after the beginning of the occurrence. The permittee shall also submit a written report within thirty (30) days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality (BAQ). The report shall contain as a minimum, the following: the identity of the emission unit and associated equipment where excess emissions occurred, the magnitude of excess emissions, the time and duration of excess emissions, the steps taken to remedy the malfunction and to prevent a recurrence, documentation that control equipment and processes were at all times maintained and operated, to the maximum extent practicable, in a manner that was consistent with good practice for minimizing emissions. Such a report shall in no way serve to excuse, otherwise justify, or in any manner affect any potential liability or enforcement action resulting from the occurrence.

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Condition Number	Conditions
3.	<p>Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in the air dispersion modeling may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment A of this permit. Higher emission rates may be administratively incorporated into Attachment A of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.</p> <p>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment A, not to exceed the pollutant limitations of this construction permit. Should the facility wish to increase the emission rates listed in Attachment A, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified in this permit condition. This is a State Only enforceable requirement.</p>
4.	These conditions shall not supersede any State or Federal requirements such as National Emission Standards for Hazardous Air Pollutants, unless these conditions would impose a more restrictive limit.
5.	This construction permit was reviewed and issued based on the permit application submitted by the owner/operator. The owner/operator shall obtain any Bureau authorization required under South Carolina Regulation 61-62.1, Section II(A) prior to making modifications not covered under this construction permit.
6.	<p>The owner or operator shall submit a written request to the Director of the Engineering Services Division for a new or revised operating permit to cover any new or altered source postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source. The written request for a new or revised operating permit must include, as a minimum, the following information:</p> <ol style="list-style-type: none"> i. A list of sources that were placed into operation. ii. The actual date of initial startup of each new or altered source.
7.	The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department. If construction is certified as provided above, the permittee may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department. If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Director of the Engineering Services Division a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation. Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.
8.	Unless elsewhere specified within this permit, all records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request.
9.	In accordance with SC Regulation 61-62.1, Section II(E) – Synthetic Minor Construction Permits, particulate matter (PM) emissions shall be limited to less than 250 tons per year. Compliance with this limit will be demonstrated through control device performance.
10.	In accordance with SC Regulation 61-62.1, Section II(E) – Synthetic Minor Construction Permits, particulate matter with an aerodynamic diameter of less than 10 microns (PM ₁₀) emissions shall be limited to less than 100 tons per year. Compliance with this limit will be demonstrated through control device performance.

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Condition Number	Conditions									
11.	<p>In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ($E = 4.10P^{0.67}$) and for process weight rates greater than 30 tons per hour ($E = 55.0P^{0.11} - 40$) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, each process's allowable particulate matter emission limit is limited to the amount shown in the table below at its nominal production rating:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Process</th> <th style="text-align: center;">Emission Limit (lbs/hr)</th> <th style="text-align: center;">Process Weight Rate (tons/hr)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Plant #1</td> <td style="text-align: center;">71.2</td> <td style="text-align: center;">603.6</td> </tr> <tr> <td style="text-align: center;">Plant #2</td> <td style="text-align: center;">69.0</td> <td style="text-align: center;">503.0</td> </tr> </tbody> </table>	Process	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)	Plant #1	71.2	603.6	Plant #2	69.0	503.0
Process	Emission Limit (lbs/hr)	Process Weight Rate (tons/hr)								
Plant #1	71.2	603.6								
Plant #2	69.0	503.0								
12.	In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.									
13.	The generators are permitted to burn only No. 2 fuel oil (diesel) as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.									
14.	This facility must gain approval from this Department prior to relocation to any other site in South Carolina.									
15.	A log indicating the number of cubic yards per day of actual production will be maintained for this facility and made available to Department personnel upon request.									
16.	All control devices shall be on-line and operating properly when the plant is in operation.									
17.	Ruptured or inoperative bags/cartridges will be replaced promptly. A log will be kept of filter maintenance, specifically the time and date bags/cartridges are replaced. These records will be readily made available to Department personnel upon request.									
18.	Fugitive emissions must be controlled by wet suppression, or in any other manner which has received prior approval from this Bureau. The control of fugitive emissions shall include, but not be limited to, the property around the batch plant itself and all entrances through which motor vehicles travel. Volatile organic compounds shall not be used for dust control purposes, and oil treatment is also prohibited.									
19.	Sand and aggregate piles must be kept as wet as necessary to prevent visible dust emissions.									
20.	Fines collected by the air pollution control equipment shall be handled in a manner that minimizes fugitive emissions to the maximum extent possible.									
21.	<p>All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring control device performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.1 Section II.</p>									
22.	Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.									

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Condition Number	Conditions
23.	The owner/operator shall install, operate and maintain pressure drop gauge(s) on each module of the baghouses. Pressure drop readings shall be recorded daily during source operation. The baghouses shall be in place and operational whenever processes controlled by the baghouses are running,
24.	The cement and flyash silo control device shall be visually inspected for leaks or visible emissions in the exhaust whenever the silo is being loaded or during a daily facility inspection, whichever is lesser. If leaks or visible emissions in the exhaust are present, loading of the silo shall immediately cease until corrective action has been taken. The results of the inspections shall be recorded, along with any corrective action taken.
25.	A weekly inspection shall be performed during truck load-out for proper operation. The results from the inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken.
26.	The generators shall comply with the requirements of all applicable regulations including but not limited to: <ul style="list-style-type: none">(1) National Emission Standards For Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subparts A (General Provisions) and ZZZZ (Stationary Reciprocating Internal Combustion Engines)

Elizabeth J. Basil, Director
Engineering Services Division
Bureau of Air Quality

ATTACHMENT A

Modeled Emission Rates MCCARTHY IMPROVEMENT COMPANY 9900-0564-CA PAGE 1 OF 1

STANDARD NO. 8 – TOXIC AIR POLLUTANTS LEVEL I DE MINIMIS ANALYSIS			
POLLUTANT	CAS NUMBER	EMISSION RATE (LBS/DAY)	DE MINIMIS (LBS/DAY)
Arsenic	7440-38-2	0.001	0.012
Beryllium	7440-41-7	0.0	0.0
Cadmium	7440-43-9	0.000	0.003
Chromium	0.030	0.001	0.030
Manganese	-	0.015	0.300
Nickel	7440-02-0	0.002	0.006
Selenium	-	0.000	0.012

STANDARD NO. 2 - MODELED NAAQS EMISSION RATES (LBS/HR)					
STACK ID	TSP	PM₁₀	SO₂	NO_x	CO
Dust Collector for Rexcon Logo 12-Plant 1	1.64	0.49	---	---	---
Dust Collector for Rexcon Logo 10-Plant 2	1.36	0.40	---	---	---
545 kW Genset Rexcon Logo12-Plant 1	0.1860	0.1529	1.8786	5.95091	1.5807
320 kW Genset for Rexcon Logo 10-Plant 2	0.1092	0.0898	0.5514	4.8069	1.0355
FACILITY TOTAL	3.2952	1.1327	2.43	10.7578	2.6162

STANDARD NO. 8 - MODELED AIR TOXIC EMISSION RATES (LBS/HR)				
STACK ID	Phosphorus	-	-	-
	7723-14-0	-	-	-
Cement Silo	8.69E-07	-	-	-
Supplement Silo	3.88E-05	-	-	-
Central Mix	1.02E-04	-	-	-
FACILITY TOTAL	1.42E-04	-	-	-

DATE

McCarthy Improvement Company
5401 Victoria Ave
Davenport, IA 52807

ATTENTION: Nick Wolf

Dear Mr. Wolf:

Enclosed is Construction Permit No. 9900-0564-CA. Please note the conditions on this permit by reading it carefully. Pursuant to the South Carolina Administrative Procedures Act, this permit decision may be appealed in accordance with applicable state law. Please see the enclosed Notice of Appeal Procedure, effective July 01, 2006, for guidelines on appeal submittals.

In addition to this permit to construct, a permit to operate is required in accordance with the Air Pollution Control Regulations and Standards for the State of South Carolina. The regulations require a written request for a new or revised operating permit to cover any new, or altered source, postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source unless a more stringent time frame is required.

Please examine this new permit carefully for errors or omissions and notify the appropriate staff member, Christopher Hardee, (803-898-0039) or e-mail at hardeecd@dhec.sc.gov promptly if any are discovered.

Sincerely,

Elizabeth J. Basil, Director
Engineering Services Division
Bureau of Air Quality

EJB:CDH:<TYPIST'S INITIALS>

Enclosures

cc: Mark Harvley, Region 1, Greenwood EQC Office
Permit File: 9900-0564

ec: Amy McClary, S&ME, Inc.

Notice of Appeal Procedure

The following procedures are in effect beginning July 1, 2006, pursuant to 2006 Act No. 387:

1. This decision of the S.C. Department of Health and Environmental Control (Department) becomes the final agency decision 15 days after notice of the decision has been mailed to the applicant or respondent, unless a written request for final review is filed with the Department by the applicant, permittee, licensee, or affected person.
2. An applicant, permittee, licensee, or affected person who wishes to appeal this decision must file a written request for final review with the Clerk of the Board at the following address or by facsimile at 803-898-3393.

Clerk of the Board
SC DHEC
2600 Bull Street
Columbia, SC 29201

3. The request for final review should include the following:
 - a. the grounds on which the Department's decision is challenged and the specific changes sought in the decision
 - b. a statement of any significant issues or factors the Board should consider in deciding how to handle the matter
 - c. a copy of the Department's decision or action under review
4. In order to be timely, a request for final review must be received by the Clerk of the Board within 15 days after notice of the decision has been mailed to the applicant or respondent. If the 15th day occurs on a weekend or State holiday, the request is due to be received by the Clerk of the Board on the next working day. The request for final review must be received by the Clerk of the Board by 5:00 p.m. on the date it is due.
5. If a timely request for final review is filed with the Clerk of the Board, the Clerk will provide additional information regarding procedures.
6. The Board of Health and Environmental Control has 60 days from the date of receipt of a request for final review to conduct a final review conference. The conference may be conducted by the Board, its designee, or a committee of three members of the Board appointed by the chair.
7. If a final review conference is not conducted within 60 days, the Department decision becomes the final agency decision, and a party may request a contested case hearing before the Administrative Law Court within 30 days after the deadline for the final review conference.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.