


**CONSTRUCTION PERMIT NO: GCP-5**

*Registration No.  
(For NMED use only)*

**GENERAL PERMIT CATEGORY: Concrete Batch Plants**

**ISSUED BY: New Mexico Environment Department**

  
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JIM NORTON, Director  
Environmental Protection Division

Date of Issuance 9/12/06

Air Quality Permit No. GCP-5 for Concrete Batch Plants (Permit) is issued by the Air Quality Bureau (AQB) of the New Mexico Environment Department (Department) under Title 20 Chapter 2 Part 72 of the New Mexico Administrative Code. [20.2.72 NMAC – *Construction Permits*, Section 220 – *General Permits*] The Department issues general permits in order to register groups of sources that have similar operations, processes, and emissions and that are subject to the same or substantially similar requirements. [20.2.72.220.A(1) NMAC] General permits provide an additional permitting option for specific types of sources that can meet the predetermined permit requirements. [20.2.72.220.C(1) NMAC]

This Permit authorizes the owner or operator to construct, modify, and operate a Concrete Batch plant (Facility) in New Mexico (excluding Bernalillo County and Tribal lands) under the conditions set forth herein as long as all conditions of this Permit are continually met.

An owner or operator who registers for and receives approval to construct under this Permit, will have satisfied the State of New Mexico's requirement for obtaining an air quality permit prior to constructing, modifying, or operating a source of air pollutants. However, other federal, state, or local agencies may have additional requirements such as zoning restrictions.

All terms written with initial capital letters are defined in Section VII – *Acronyms and Definitions*, of this Permit. Regulatory authority, if applicable, is cited in brackets. Please refer to the guidance document for this Permit for details, descriptions, and registration instructions. Questions regarding eligibility for this Permit can be directed to the Air Quality Bureau of the Environment Department at (505) 827-1494, or visit the New Mexico Environment Department's Web Site at <http://www.nmenv.state.nm.us/AQB>.

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## **SECTION I. APPLICABILITY**

### **I.A. FACILITIES ALLOWED TO REGISTER UNDER THIS GENERAL CONSTRUCTION PERMIT.**

The owner or operator may apply for registration of a Concrete Batch plant under this Permit if:

1. The Facility's purpose is to produce Concrete or Concrete products [SIC 3271, 3272 (with Department approval), or 3273];
2. The Facility can comply with all of the requirements of this Permit;
3. The Facility includes any combination of the following Emissions Units used in the production of concrete (and no others) within the Property Boundary:
  - a. Permanent or temporary Facility that will have an actual production rate less than or equal to 2400 yards per day (YPD),
  - b. Any combination of stockpiles or haul roads,
  - c. Conveyers (belt, pneumatic, screw, etc.),
  - d. Silos, bins, and hoppers,
  - e. Mixers,
  - f. Truck loading stations,
  - g. Associated emission control systems (air pollution control devices),
  - h. Natural gas, diesel, or propane fired heaters with a heat input rate of less than 25 MMBtu per hour that are used to heat water for the concrete mix,
  - i. Internal combustion engines, including generators when grid power is not available,
  - j. Systems for screening, handling, storing, and weighing aggregate,
  - k. Systems for loading, transferring, and storing mineral filler,
  - l. Sources exempt under 20.2.72.202 NMAC,
  - m. Equipment for storing, measuring and dispensing cement dye, retardants, accelerants or other chemical admixtures,
  - n. Truck washing stations,
  - o. Wheel washing stations, or
  - p. Other equipment typically found at concrete batch plants.

### **I.B. EXCLUDED SOURCES**

The following facilities cannot register for this Permit:

1. A Facility that does not meet the requirements in Subsection III.C - Siting Restrictions;
2. A facility subject to any federal New Source Performance Standard (NSPS) other than 40 CFR § 60 Subparts A and Kb;
3. A facility subject to a National Emissions Standard for Hazardous Air Pollutants (NESHAP) or Maximum Achievable Control Technology (MACT);
4. A Facility that operates in conjunction with another facility on the same property, except as allowed in Subsection III.E - Co-Locations;

5. A Facility subject to 20.2.72 NMAC, Sections 400 through 499 – Permitting for Toxic Air Pollutants;
6. A facility that processes slag, asbestos tailings or asbestos-containing waste materials; or
7. A facility that encapsulates and/or disposes of radionuclides or hazardous solid waste.

**I.C. PERMITTING ALTERNATIVES**

1. The owner or operator of a Facility subject to 20.2.72 NMAC who does not choose to register or whose Facility fails to qualify for this Permit shall apply for a Construction Permit pursuant to 20.2.72 NMAC – Construction Permits and must receive such permit prior to construction.

**I.D. FACILITIES WITH BOTH A CONSTRUCTION PERMIT (PART 72) AND A GENERAL CONSTRUCTION PERMIT**

1. A Facility that has a Construction Permit under 20.2.72 NMAC may also register for a GCP-5. Subparagraphs II.C.2.b and IV.C.1.i of this Permit contain specific requirements for Facilities that have both a GCP-5 and a Construction Permit.

**I.E. LARGE AND SMALL FACILITIES**

1. Table I.E.1 shall govern the applicability of requirements in this GCP to Permitted Facilities based on daily production, which correlates directly with potential emissions. The permittee shall operate the Facility in accordance with one of the operating scenarios in the table. The Facility's initial operating size, when the GCP is granted by the Department, shall be based on information provided by the applicant on the registration form. [see II.C.5.a]

**TABLE I.E.1 REQUIREMENT APPLICABILITY**

* Facility Size (YPD)	Requirements
Greater than 360 yards of concrete per calendar day.	Plants in this category are subject to all requirements in this GCP.
Less than or equal to 360 yards of concrete per calendar day.	Plants in this category are subject to all requirements in this GCP except: III.F.2.e, III.F.10.b, IV.A.1.b, IV.A.2, and IV.B.3.j

\* Some extremely small Facilities may emit less than 10 pounds per hour and less than 25 TPY of any single pollutant, and can therefore operate under a NOI instead of a GCP. Any Facility capable of loading more than 13.9 TPH of cement or more than 2.9 TPH of fly-ash will exceed the 10 pound per hour limit. An applicant who thinks that his Facility may qualify for a NOI shall submit an NOI application to the Department.

**SECTION II. REGISTRATION PROCESS**

**II.A. GENERAL**

1. The applicant shall complete the current GCP-5 registration form provided by the Department, submit it to the Department, and provide a copy to the nearest Department Field

Office. [20.2.72.220.A(2)(b) NMAC] Field office locations are found on the Department's Website at [http://www.nmenv.state.nm.us/NMED/field\\_op.html](http://www.nmenv.state.nm.us/NMED/field_op.html). Within thirty (30) days of receiving an application to register under this Permit, the Department shall review the application and shall grant or deny the registration. The owner or operator of a Facility approved for registration will receive a package containing a copy of the registration form, a copy of this GCP, and the approval letter.

2. Construction, operation or relocation of a Facility shall not begin until the owner or operator has received written authorization from the Department. The Department shall notify the owner or operator of approval or denial by certified mail. [20.2.72.200.E NMAC and 20.2.72.220.C(6)(a) NMAC]

## **II.B. PUBLIC NOTIFICATION**

1. The applicant shall provide public notice, including newspaper advertisement and posting at the Facility site, 15 days prior to submitting the registration form to the Department, in accordance with 20.2.72.220.C(2) NMAC. (See *GCP-5 Instructions and Guidance* for a public notice template.)

## **II.C. REGISTRATION FORM**

GCP-5 permit application forms, available from District offices and the Department's website, (<http://www.nmenv.state.nm.us/aqb/index.html>) shall be completed with the following information and attachments, and submitted to the address on the registration form.

### **1. General Information**

- a. The Facility's site name and the contact person's name, address, phone number, e-mail address and fax number;
- b. The name of the company and the person(s) that own(s) and operate(s) the Facility;
- c. The date the application was notarized; and
- d. The primary four (4) digit Standard Industrial Classification (SIC) code. For concrete Facilities the SIC code will be one of the following:
  - 3271 Concrete Block and Brick,
  - 3272 Concrete Products, Except Block and Brick,
  - 3273 Ready-Mixed Concrete.

### **2. Initial Facility Status**

- a. Whether the Facility is currently constructed and is operating in New Mexico;
- b. Whether the Facility currently has a Construction Permit(s), if so, the current permit number(s), and whether the existing permit(s) will remain active or not;
- c. Whether the application was submitted in response to a Notice of Violation; if so the NOV file number;
- d. Whether the Facility is an excluded source as described in Subsection I.B. – *Excluded Sources* of this Permit; and
- e. The type of material processed by the Facility.

### **3. Initial Facility Location**

- a. The Section, Range, Township, county, and elevation;

- b. The Universal Transverse Mercator (UTM) Easting and Northing coordinates (specify NAD-27 or NAD-83), zone, and latitude and longitude coordinates at the center of the Facility's Area of Operations;
  - c. The name and zip code of the nearest New Mexico town or tribal community;
  - d. The direction and distance from the Facility to the nearest town or tribal community;
  - e. The direction and distance from the perimeter of the Area of Operations to the nearest occupied structure;
  - f. Detailed written driving instructions to the Facility from the nearest town or tribal community;
  - g. The status of the land (e.g., Private, State, Federal, Tribal); and
  - h. The name, location, distance and direction from the Facility to any Class I Areas within three (3) miles of the perimeter of the Area of Operations.
4. Initial Operating Schedule
- a. The anticipated month and year that construction will start at this site; and
  - b. The anticipated month and year that operation will start at this site.
5. Initial Facility Information
- a. The Facility's maximum proposed production rate, YPD and YPY;
  - b. The area (in acres) to which public access is restricted;
  - c. The area (in acres) of disturbed earth;
  - d. The area (in acres) covered by storage piles and operations;
  - e. The haul road length(s) and dust control measures;
  - f. The equipment list, excluding engine driven vehicles, with the manufacturer and model number, (if the manufacturer and model number is not available - please indicate), equipment size or capacity, and the function or purpose of each piece of equipment;
  - g. The manufacturer's maximum design capacity for each piece of equipment; and
  - h. The manufacturer's recommended pressure drop across the Filter(s). If the manufacturer's recommendations are unavailable or are no longer relevant, include a statement that the Facility will use the results of a successful compliance test to establish normal operating range for the Filter(s).
6. Other Required Information and Attachments
- a. A process flow sheet and/or block diagram indicating individual equipment, emission points, unit numbers, and types of controls applied to those points;
  - b. A plot plan drawn to scale, showing emission points denoted by unit number, Area of Operations, structures, tanks, fences, Restricted Area, and the Property Boundary of the property owned, leased or under direct control of the owner or operator;
  - c. An appropriate legible map, such as a 7.5 minute United States Geological Survey (USGS) Topographic Quadrangle map, that shows the proposed location of the Facility;
  - d. Documentation showing that the applicant has given the public notice described in Subsection II.B – *Public Notification*;
  - e. A description of the methods by which public access to the Restricted Area is limited;

- f. A preliminary operational plan defining the measures to be taken to mitigate source emissions during:
  - (1) Facility malfunctions, startup, shutdown, or scheduled maintenance as defined in 20.2.7 NMAC, and
  - (2) Weather conditions that would cause exceedence of the visible emission requirement in paragraph III.A.6. Reasonable measures to be employed include, but are not limited to, application of additional water to storage piles and haul roads.
- g. The contact name, address, and date that a copy of the application was sent or delivered to a field office;
- h. Certification by the Facility's owner, operator, or authorized representative before a notary public that all of the information included in the registration form is true and complete to the best of the signing individual's knowledge [20.2.72.203 A(12) NMAC]; and
- i. A check or money order for the fees required by 20.2.75 NMAC. [payable to: NM Environment Department, AQB.]

#### **II.D. FEES**

- 1. Permit and annual fees shall be determined pursuant to 20.2.75 NMAC – Construction Permit Fees.
- 2. A Facility that meets the definition of a Small Business [20.2.75.7.F NMAC] shall pay discounted fees [20.2.75.11.C NMAC]. A Facility that has total onsite engine capacity less than or equal to 180 hp (excluding mobile sources) and produces less than or equal to 130,000 YPY shall be considered to emit less than 50 TPY of any regulated air contaminant, and 75 TPY of all regulated air contaminants.
- 3. In the first year after the Department approves registration under this permit, the Facility's emissions shall be based on the proposed maximum production rate on the registration (subparagraph II.C.5.a). Each year thereafter, the Facility's emissions shall be determined by the annual production during the previous year. If the Facility's Small Business status changes, the next annual fee will change to reflect the new status. Regardless of Small Business status, the Facility may continue to operate under this GCP permit.

#### **II.E. MODELING**

- 1. The Department has completed general air dispersion modeling for affected Facilities and has used the results to develop the requirements in this Permit. Therefore, air dispersion modeling is not required from the Applicant.

#### **II.F. REASONS THE DEPARTMENT MAY DENY A REGISTRATION**

The Department may deny registration under this Permit if:

- 1. The registration form is not complete;
- 2. The Facility is not a source qualified to register for this General Permit;
- 3. The facility cannot continuously meet the terms and conditions of the Permit [20.2.72.220.C(3) NMAC]; or

4. Any criteria listed in 20.2.72.208 NMAC are applicable.

### **SECTION III. FACILITY OPERATING REQUIREMENTS**

#### **III.A. GENERAL TERMS AND CONDITIONS**

1. The owner or operator shall operate the Facility using only the equipment described in the registration form or other equipment that has been reported to the department in accordance with Subsection IV.C – *Department Notification*, paragraphs 1.d and 1.e.
2. The owner or operator shall install, operate, and maintain the equipment in accordance with manufacturer’s specifications and recommendations unless otherwise specified by a condition of this GCP.
3. The Facility shall use only gasoline, pipeline quality natural gas, liquefied petroleum gas (LPG)/propane, and/or #2 diesel fuel with a sulfur content equal to or less than 0.05 % by weight to fuel engines and heaters.
4. Facility production shall not exceed 2400 cubic yards of concrete per day.
5. A copy of the registration forms, this GCP, and the Department's approval letter, shall be maintained onsite and shall be made available to any representative of the Department upon request.
6. No visible emissions from the permitted Facility shall be observed crossing the perimeter of the Restricted Area for more than a total of five (5) minutes in any two (2) consecutive hours during Facility operation. Compliance with this condition shall be determined by fugitive emission test(s) conducted in accordance with 40 CFR § 60.11 and Reference Method 22 in 40 CFR § 60, Appendix A. During atmospheric conditions under which emissions cannot be controlled to meet the "no visible emission" requirement, the Facility shall either:
  - a. cease operations, or
  - b. execute the applicable measures set out in Subsection II.C. – *Registration Form*, paragraph 6.f, and perform the notification required in Subsection IV.C – *Department Notification*, paragraph 2.

#### **III.B. APPLICABLE REGULATIONS**

1. The owner or operator registered under this Permit shall comply with any applicable portion of Title 20 of the New Mexico Administrative Code, Chapter 2, Air Quality. [20.2 NMAC]
2. The Department considers a Facility registered and operating under this Permit to be in compliance with the following state regulations as those regulations existed on the date of issuance of this Permit:
  - a) 20.2.3 NMAC – *Ambient Air Quality Standards*
  - b) 20.2.7 NMAC – *Excess Emissions During Malfunctions, Startup, Shutdown, or Scheduled Maintenance*
  - c) 20.2.61 NMAC – *Smoke and Visible Air Emissions*
  - d) 20.2.72 NMAC – *Construction Permits*
  - e) 20.2.73 NMAC – *Notice of Intent and Emission Inventory Requirements*



f) 20.2.75 NMAC – Construction Permit Fees

3. The Department considers a Facility registered under and operating in compliance under this Permit to be in compliance with the federal Clean Air Act (CAA). [42 U.S.C. s/s 7401 et seq. (1970)]
4. The owner or operator shall be responsible for compliance with the current versions of any applicable state and federal regulations.

**III.C. SITING RESTRICTIONS**

1. The Facility shall meet the following siting restrictions:

**Table III.C.1 Siting Restrictions**

	Distance 'a' in this table shall be verified when the permitted Facility commences operation. Distance 'b' is continuously applicable during the permit period.	<b>Distance</b>
a.	Minimum distance from the perimeter of the Area of Operations to any Class I Area perimeter.	4.82 km (3 miles)
b.	Minimum distance between any emission source of the permitted Facility and the perimeter of the Restricted Area, except where the haul road crosses the Restricted Area perimeter.	13 meters (14 yards)

**III.D. RELOCATION**

1. The owner or operator shall notify the Department of any relocations in accordance with requirements in Subsection IV.C – Department Notification, subparagraphs 1.h and 1.i.
2. When operations cease at the site of a permitted Facility, prior to leaving the site, owners or operators should employ reasonable measures to reduce or avoid wind-blown particulate matter.

**III.E. CO-LOCATIONS**

1. A Facility registered under this permit may co-locate with a Hot Mix Asphalt and/or an Aggregate Processing Facility within the Property Boundary if:
  - a. Such other source is permitted under 20.2.72 NMAC – Construction Permits or under a GCP;
  - b. Each facility meets all requirements of its own permit; and
  - c. No visible emissions from any co-located facility shall cross the perimeter of the Restricted Area per the requirement in paragraph III.A.6.
2. The daily production for co-located facilities shall not exceed the limits prescribed in Table III.E.1.

**Table III.E.1 Production Limitations**

<b>Facility/Source Type</b>	<b>Production</b>
Aggregate Processing Facility	7800 TPD
Hot Mix Asphalt Plant	7800 TPD
Concrete Batch Plant	2400 YPD

3. For any co-located facilities, the minimum distance at the time of co-location from the perimeter of the Area of Operations to any existing state park, recreation area, schoolyard, private residence, office building, or other occupied structure shall be greater than ¼ mile.

**III.F. EMISSIONS RESTRICTIONS AND CONDITIONS**

1. Haul Roads and aggregate stockpiles shall be considered emission sources. Each stockpile shall be contained within a three walled bunker.
2. The Facility's truck-loading point shall control PM emissions by implementing the following controls and operational procedures to comply with paragraph III.A.6. All such control devices shall be maintained in working order. The Facility shall:
  - a. Use only washed sand;
  - b. Keep sand and aggregate piles controlled during hours of operation;
  - c. Put at least 15% of the mix water into the trucks before adding dry batch ingredients;
  - d. For truck mix Facilities, inject cementaceous materials through the central portion of a concentric boot surrounded by an aggregate curtain; and
  - e. For truck mix Facilities, install and operate a commercially designed and manufactured negative-pressure canopy over the truck loading point. The canopy shall be designed-for and sized-to the permitted Facility and shall be operated such that it effectively controls truck-loading emissions during normal operations.
3. All displaced air from silos shall pass through a Filter before being vented to the atmosphere.
4. The design efficiency of Filters shall be no less than:

**Table III.F.1 Minimum Filter Efficiency**

<b>Filter Type</b>	<b>Filter Efficiency</b>
Sock (allowed on silo(s) only)	95.0%
Cartridge	99.9%
Bag House/Fabric	99.9%

5. Filter fines shall be recycled via a closed loop system into a controlled silo.
6. The Facility's silo(s) and Filter(s) shall not exhibit visible emissions for more than a total of five (5) minutes in any consecutive two (2) hour period. [40 CFR § 60.92] Compliance with this condition shall be determined in accordance with procedures in Reference Method 22 in 40 CFR § 60, Appendix A.
7. No visible emissions from the Facility shall cross the perimeter of the Restricted Area per paragraph III.A.6.
8. Silos shall be equipped with audible and visual alarms, which activate prior to the silo being 95 percent full.

9. Haul roads shall, at a minimum, use basecourse and watering to control fugitive emissions.
10. If, at any time, the minimum distance from the perimeter of the Area of Operations to any state park, recreation area, schoolyard, private residence, office building, or other occupied structure is or becomes less than ¼ mile, haul road fugitive emissions shall be controlled by:
  - a. surfactant, or by paving and sweeping traffic areas (within 25 meters of the area of operations perimeter), and
  - b. use of wheel washing equipment at truck exit(s).
11. Haul roads greater than one (1) mile in length are not allowed by this GCP.
12. Central Mix Facilities shall install, operate and maintain the mixer and associated control equipment as per the manufacturer’s specifications.
13. Prior to producing 1920 cubic YPD of concrete, the permittee shall install and maintain a cartridge filter or a baghouse on all silos.

**III.G. OTHER EMISSIONS LIMITATIONS**

1. The annual emissions from the permitted Facility, including fugitive sources of emissions, shall not exceed the emissions limitations in Table III.G.1 – Total Annual Emission Limitations. [20.2.70 NMAC]

**Table III.G.1 Total Annual Emission Limitations**

<b>Pollutant</b>	<b>Emissions Limitation</b>
Nitrogen Oxides (NO <sub>x</sub> )	95 tons per year
Carbon Monoxide (CO)	95 tons per year
Volatile Organic Compounds (VOCs)	95 tons per year
Total Suspended Particulate (TSP)	95 tons per year
Sulfur Dioxide (SO <sub>2</sub> )	50 tons per year
Any one (1) Hazardous Air Pollutant (HAP)	8 tons per year
Sum of all Hazardous Air Pollutants (HAPs)	23 tons per year

For co-located plants, if the plant and the co-located source 1) belong to the same “major group” (i.e., which have the same first two digit code) as described in the Standard Industrial Classification Manual, 1972, as amended by the 1977 Supplement; 2) are under the control of the same person (or persons under common control); and 3) are located on one or more contiguous or adjacent properties, then the total emissions from the co-located plant and source shall not exceed the emissions limitations in this table. [40 CFR 52.21(b)(6)] These limits ensure that the plant will not be a major source under 20.2.70 NMAC.

**III.H. REQUIREMENTS FOR STATIONARY COMBUSTION EQUIPMENT**

1. This subsection does not apply to tailpipe emissions from engines used to propel vehicles on the property.
2. All combustion source emissions shall be vented vertically.
3. Emissions from stationary internal combustion engines and heaters shall not exhibit greater than 20% opacity. Compliance with this requirement shall be determined by opacity test

observations conducted in accordance with 20.2.61 NMAC and Reference Method 9 in 40 CFR § 60 Appendix A.

## **SECTION IV. MONITORING, RECORDKEEPING AND NOTIFICATION REQUIREMENTS**

### **IV.A. MONITORING**

1. The registered Facility shall monitor and record the loading activity status of silos and trucks and the pressure (inches of water) across the Filter(s) using a differential pressure gauge:
  - a. Each time a silo is being filled;
  - b. Each time a concrete truck is being filled;
2. The pressure and loading activity status shall be recorded by a CEMS or data-logger.
3. The records shall confirm that the Filter(s) are being employed per subparagraph III.F.2.e and paragraph III.F.3. The pressure data shall confirm whether the Filter(s) are operating within manufacturer's specifications, or, if manufacturers specifications are not available, within the operating parameters established by Method 22 during initial compliance tests. [Subsection IV.D – *Compliance Testing*, paragraph 9]

### **IV.B. RECORDKEEPING**

1. Compliance with recordkeeping requirements for this Permit shall be based on Department inspections of records and logs.
2. The owner or operator shall retain records for at least two (2) years after collection either on-site or at a local business office. [20.2.72.220.A(2) NMAC] The owner or operator shall make all records required by this permit available to Department personnel upon request.
3. The owner or operator shall collect and retain the following records:
  - a. Actual hours of operation (e.g., beginning and end of operation) for each day of the operation;
  - b. Monitoring required under Subsection IV.A- *Monitoring*;
  - c. Weekly total production and the monthly rolling 12 month total production;
  - d. Number of haul truck trips per day including materials delivery and product;
  - e. Fuel delivery manifest that includes the, type of fuel, and number of gallons purchased;
  - f. The quantity and frequency of water or surfactant application to haul roads;
  - g. The frequency of haul road sweeping (if paved);
  - h. Other haul road control measures (if used);
  - i. Copies of the manufacturer's (or applicant's proposed) maintenance and operating requirements and records demonstrating conformance with said requirements; and
  - j. Copies of documentation that substantiates compliance with the requirement in subparagraph III.F.2.e.

### **IV.C. DEPARTMENT NOTIFICATION**

1. The owner or operator shall notify the Air Quality Bureau in writing:

- a. Within thirty (30) days after the actual date that operations ceased;
  - b. Within fifteen (15) days if the Facility is permitted as a small business and it no longer qualifies as such, either because its rolling 12 month total production exceeds the quantity in paragraph II.D.2, or because it fails to meet any other criteria defined in 20.2.75.7.F NMAC. This notification shall contain the permit number and "Change of Small Business Status" in the subject line.
  - c. Prior to making changes to the Facility that affect any information on the registration form [20.2.72.220.D NMAC] except as noted in subparagraphs e through i of this paragraph;
  - d. Prior to but no earlier than fifteen (15) days before any changes in equipment, using the GCP-5 Substitution and Equipment Exchange form or the Reporting Additional Equipment form. (Forms are available from the Department's Web Site);
  - e. Within fifteen (15) days after a change of the Facility ownership;
  - f. Within fifteen (15) days after a change of the contact person's name, address, phone number, e-mail address and/or fax number;
  - g. Within fifteen (15) days after the actual date of initial startup of the Facility;
  - h. Within fifteen (15) days prior to any relocation of the Facility in accordance with the Department's Relocation Application form. Relocated Facilities shall continue to meet all requirements of this Permit. Relocation shall not occur until the owner or operator has received written authorization from the Department [20.2.72.220.C.6(a) NMAC].
  - i. On the Relocation Application whether the Facility will continue to operate under GCP-5 or under a regular Construction Permit, and specify the applicable permit or registration number.
2. The owner or operator of a Facility that:
- a. produces excess emissions due to air pollution control equipment malfunctions (e.g. damaged/torn bags), or
  - b. violates the visible emission requirement in paragraph III.A.6

shall notify the Department within twenty-four (24) hours by telephone or fax. The owner or operator shall submit written notification to the Department within ten (10) days after the start of the next business day. All such notifications and actions shall be in accordance with the procedures in 20.2.7 NMAC – Excess Emissions During Malfunction, Startup, Shutdown, or Scheduled Maintenance. If the visible emission requirement in paragraph III.A.6 was exceeded due to weather conditions, the owner/operator shall document the weather parameters at the time and the measures taken to reduce or mitigate the emissions.

#### **IV.D. COMPLIANCE TESTING**

1. The owner or operator shall perform initial compliance tests on each heater greater than 5 MMBtu and each combustion engine that has a site rating equal to or greater than 180 hp. The tests shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 7E for NO<sub>x</sub>, Method 9 for opacity, and Method 10 for CO, contained in 40 CFR § 60, Appendix A; and with the requirements of Subpart A, General Provisions, 40CFR § 60.8(f). For NO<sub>x</sub> and CO, portable analyzer tests will be considered equivalent if Department guidelines (available from the Compliance section of AQB's website) are

followed; however, the Department reserves the right to request Method testing in specific cases. Alternative test methods may be used if approved by the Department. The results of the NO<sub>x</sub> tests shall be expressed as nitrogen dioxide (NO<sub>2</sub>) using a molecular weight of 46 lb/lb mole in all calculations (each ppm of NO/NO<sub>2</sub> is equivalent to  $1.194 \times 10^{-7}$  lb/SCF).

2. Additional compliance tests shall be conducted if it is deemed necessary by the Department to demonstrate that the Facility is in compliance with all the applicable regulations or permit conditions. Compliance test requirements from previous permits (if any) are still in effect, unless the tests have been satisfactorily completed.
3. If any equipment, required by this subsection to undergo initial compliance test(s), is added, changed out, or replaced at the permitted Facility, the owner or operator shall perform a compliance test on the new unit within 60 days of notification (IV.C.1.d), consistent with the requirements of this subsection, unless waived by the Department in writing.
4. The owner or operator shall conduct these tests within sixty (60) days of initial startup of the Facility.
5. The owner or operator shall allow a representative of the Department to be present at the test.
6. The owner or operator shall observe the following pre-testing and testing procedures:
  - a. The owner or operator of the Facility shall provide, for the Department Enforcement Program Manager's approval, a written test protocol at least thirty (30) days prior to the anticipated pre-test meeting date.
    - (1) The protocol shall describe the test methods or standard operating procedures to be used (including sampling locations), and shall describe data reduction procedures.
    - (2) The owner or operator shall identify in the protocol any proposed variation from the established sampling and analytical procedures or from the conditions in this permit.
  - b. The test protocol and compliance test report shall conform to the standard format specified by the Department. The current version of the format may be obtained from the Department's Web Site or from the Compliance section of AQB's website.
  - c. The owner or operator shall provide the following performance test facilities for the Department:
    - (1) Sampling ports necessary for any test methods specified by this Permit,
    - (2) Safe sampling platforms,
    - (3) Safe access to sampling platforms, and
    - (4) Utilities for sampling and test equipment.
  - d. Where necessary to prevent cyclonic flow in the stack, the owner or operator shall install flow straighteners in accordance with EPA Reference Method 1 in 40 CFR § 60, Appendix A.
7. During engine and heater compliance tests [Subsection IV.D, paragraph 1], the owner or operator shall monitor and record the Facility's hourly production rate. This information shall be included with the test report that is required to be furnished to the Department and shall be listed in tabular form or as part of the summary page of the test report.
8. Engine compliance tests [Subsection IV.D, paragraph 1] shall be conducted at 90 percent or greater of the engine's site rated capacity, as stated in the registration form of this Permit, and

at additional loads when requested by the Department. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the test report to the Department.

9. Initial compliance tests on Filters shall demonstrate compliance with paragraph III.F.6, or shall establish an operating range in which there are no visible emissions per paragraph III.F.6. Results shall be furnished to the Department for use as a baseline data set during future compliance inspections as a comparison of Facility performance versus opacity.
10. The owner or operator shall submit one copy of the test protocol and compliance test results to the Enforcement Program Manager of the Department no later than forty five (45) days after the completion of the testing.

#### **SECTION V. CHANGES THAT PREVENT MEETING THE GENERAL PERMIT REQUIREMENTS**

1. The owner or operator shall not change or add equipment that prevents the Facility from complying with the conditions of this permit.
2. Prior to making any modification that would result in the Facility not being able to meet the conditions of this permit; the owner or operator shall obtain a Regular Construction Permit under 20.2.72 NMAC from the Department. [ 20.2.72.220.D(2) NMAC]

#### **SECTION VI. RIGHTS OF THE ENVIRONMENT DEPARTMENT AND THE REGISTERED FACILITY**

##### **VI.A. PROPERTY ACCESS AND RECORD REVIEW**

1. The Department may access the Facility and the nearest operations office of the Facility during operational hours to inspect the equipment at the Facility and any records to ensure that the Facility has operated and continues to operate in compliance with the conditions of this permit. Operational hours shall include all times when employees are present and emissions may be occurring. [Air Quality Control Act, NMSA 1978. Section 74-2-5.1A]

##### **VI.B. CANCELLATION OF REGISTRATION**

1. The Department may cancel registration under this Permit if the owner or operator of the Facility has not notified the Department within two (2) years of approved registration that the construction or modification has begun. The Department may also cancel the registration if construction work is suspended for one (1) year.
2. The Department shall cancel the registration if the owner or operator of the Facility ceases operation for five (5) years or more. [20.2.72.211.A NMAC]

##### **VI.C. REVOCATION OF REGISTRATION**

1. The Department may revoke a registration under this Permit in writing:
  - a. If the owner or operator of the Facility has knowingly and willfully misrepresented a fact on the registration form; or
  - b. Pursuant to an Administrative Compliance Order or Court Order.

**VI.D. APPEALS OF DEPARTMENT PERMITTING ACTIONS**

1. Any party affected by the Department's approval, denial or revocation of a registration under this Permit may appeal to the Environmental Improvement Board (EIB) within thirty (30) days of the Department's decision pursuant to Subsections F through H of 20.2.72.207 NMAC and 20.2.72.220.C(5) NMAC.

**VI.E. REVISION OF THE GENERAL CONSTRUCTION PERMIT**

1. The Department may revise this Permit pursuant to 20.2.72.220.B NMAC. New Facilities are required to comply with the new GCP-5 transition schedule within the time frame stated in the new version.



## SECTION VII. ACRONYMS AND DEFINITIONS

### VII.A. ACRONYMS

AC	Asphalt Concrete
APF	Aggregate Processing Facility
(AQB)	Air Quality Bureau
AQCR	Air Quality Control Regions
CO	Carbon monoxide
CBP	Concrete Batch Plant
CEMS	Continuous Emissions Monitoring System
CFR	Code of Federal Regulations
EIB	Environmental Improvement Board
GCP	General Construction Permit
HAP	Hazardous Air Pollutant
HMA	Hot Mix Asphalt
NAAQS	National Ambient Air Quality Standards [40 CFR Part 50]
NAIC	North American Industrial Classification
NESHAP	National Emission Standards for Hazardous Air Pollutants [40 CFR Part 61 and 63]
NMAAQs	New Mexico Ambient Air Quality Standards [20.2.3 NMAC]
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NOI	Notice Of Intent
NOV	Notice Of Violation
NO <sub>x</sub>	Oxides of nitrogen
NSPS	New Source Performance Standards [40 CFR Part 60]
MACT	Maximum Achievable Control Technology
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter with an aerodynamic diameter of 10 microns or less
ppm	Parts Per Million
PSD	Prevention of Significant Deterioration [20.2.74 NMAC]
SCF	Standard Cubic Foot
SIC	Standard Industrial Classification
SO <sub>2</sub>	Sulfur Dioxide
TPH	Tons Per Hour
U.S. EPA	United States Environmental Protection Agency
VOC	Volatile organic compound
YPD	(cubic) Yards Per Day
YPH	(cubic) Yards Per Hour
YPY	(cubic) Yards Per Year

## VII.B. DEFINITIONS

**“Area of Operations”** means the area within the Restricted Area which contains all Emissions Units and activities which may produce air contaminants, including Emissions Units and activities listed in Subsection I.A. – *Facilities Allowed to Register*, paragraph 3, all disturbed lands and all haul roads except the haul road between the Restricted Area and the Property Boundary. Disturbed lands include all active mining areas, stockpiles, and overburden removal areas used for operation of the Facility.

**“Aggregate Processing Facility ”** means any facility or plant that utilizes any combination of equipment or machinery that is used to quarry, separate, screen, combine, or crush, any nonmetallic mineral.

**“Air Quality Control Region” (AQCR)** means an interstate or intrastate area designated by the U.S. Environmental Protection Agency (EPA) for the attainment and maintenance of National Ambient Air Quality Standards (NAAQS).

**“Asphalt”** means the bituminous substance used to bind aggregate together to make asphalt concrete (AC).

**“Concrete”** means a conglomerate of gravel, pebbles, sand, broken stone, blast-furnace slag or cinders, or fly-ash (termed the aggregate) embedded in a matrix of either mortar or cement mixed with water.

**“Concrete Batch Plant”** means any facility or plant used to manufacture concrete by mixing water, aggregate, and cement.

**“Department”** is the State of New Mexico Environment Department, Air Quality Bureau.

**“Emissions Units”** means any building, structure, equipment, facility, installation (including temporary installations), operation or stationary source, which emits or has the potential to emit any air pollutant subject to regulation under the Act.

**“Filter”** means the equipment used by the Facility to capture dust and particulate matter. As used in this GCP, the term Filter includes baghouses, fabric filters, sock filters, and cartridge filters.

**“Fugitive Emissions”** means those emissions, which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

**“Haul Road”** means any on-site road that is not accessible to the general public and is connected to the facility or the nearest public road.

**“Hazardous Air Pollutants”** are air pollutants that are designated as hazardous by the U.S. EPA in the Clean Air Act and listed in 40 CFR Part 61 Section 112b.

**“Hot Mix Asphalt Plant”** means any facility or plant that utilizes any combination of equipment or machinery to store, deliver, or manufacture Asphalt Concrete by mixing Asphalt and heated aggregate.

**“National Ambient Air Quality Standards”** means the primary (health based) and secondary (welfare-based) federal ambient air quality standards promulgated by the U.S. EPA pursuant to Section 112 of the federal Clean Air Act.

**“NSPS” (New Source Performance Standards)** means the regulatory requirements, guidelines and emission limitations promulgated by the U.S. EPA pursuant to Section 111 of the Federal Clean Air Act and 40 CFR Part 60.

**“Opacity”** means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background.

**“Owner or Operator”** is any person who owns or operates a process or process equipment at the source for which coverage under the Permit has been granted.

**“Property Boundary”** means the outside edge of the property, which includes all the equipment, registered under this Permit. The property may consist of one or more continuous and adjacent properties if they are owned, leased, or under direct control of the owner or operator.

**“Ready Mix Plant** or "Redi Mix" or "central mix" means a plant that combines and mixes **Concrete** ingredients with water in a drum at the Facility, before loading the mix into a truck for transport to the point of use.

**“Restricted Area”** means the area to which public access is restricted.

**“Stack Emissions”** means emissions that are released to the atmosphere from a capture system through a stack or other point source discharge on the Facility.

**“Transit Mix Plant”** means a plant where Concrete ingredients are put into trucks and mixed by rotation of the drum on the way to the job-site.