

**Texas Commission on Environmental Quality
Air Permits Division**

New Source Review (NSR) Boilerplate Special Conditions

This information is maintained by the Mechanical/Agricultural/Construction NSR Section and is subject to change. Last update was made **October 2006**. These special conditions represent current NSR boilerplate guidelines and are provided for informational purposes only. The special conditions for any permit or amendment are subject to change through TCEQ case by case evaluation procedures [30 TAC 116.111(a)]. Please contact the appropriate Mechanical/Agricultural/Construction NSR Section management if there are questions related to the boilerplate guidelines.

Concrete Batch Plants

Permit Number _____

EMISSION STANDARDS and FUEL SPECIFICATIONS

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission limits and other conditions specified in the attached table.
2. This permit does not authorize the operation of an internal combustion engine in conjunction with this facility. The holder of this permit shall obtain prior authorization for any engine which remains or will remain at a single point or location for more than 12 consecutive months. Any portable engine which remains or will remain at a single point or location for less than or equal to 12 consecutive months is not considered stationary and no authorization is required. *(This condition used only if a generator is not authorized by this permit.)*

OR....

2. Fuel for the generator or engine shall be sweet natural gas or liquid fuel with a maximum sulfur content of no more than 0.3 percent by weight and shall not consist of a blend containing waste oils or solvents. *(If a generator is authorized by this permit.)*

Use of any other fuel shall require prior written approval of the Executive Director of the Texas Commission on Environmental Quality (TCEQ). Upon request by the Executive Director of the TCEQ or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel(s) utilized at this plant or shall allow air pollution control program representatives to obtain a sample for analysis.

OPACITY/VISIBLE EMISSION LIMITATIONS

3. No visible fugitive emissions from the engine or generator, material storage or feed bins, transfer points on belt conveyors, stockpiles, or internal roads and work areas shall leave the property. Visible emissions shall not exceed a cumulative 30 seconds in duration in any six-minute period as determined using EPA Test Method (TM) 22 or equivalent. If this condition is violated, additional controls or process changes may be required to limit visible particulate matter (PM) emissions. *(Only authorized sources are included in this permit).*
4. According to EPA TM 9 or equivalent, opacity of emissions from the cement/fly ash/bulk storage silo(s) baghouse, central baghouse(s), cement weigh hopper baghouse, and truck batch drop shall not exceed 5 percent averaged over a six-minute period, except for those times describe in 40 CFR 60, Subpart A. If 5 percent opacity is exceeded, sampling may be required.

OPERATIONAL LIMITATIONS, WORK PRACTICES, AND PLANT DESIGN

5. As represented by the applicant, the following shall occur:
 - A. Production is limited to _____ cubic yards per hour (yd³/hr) and _____ cubic yards per year (yd³/yr) in any rolling 12-month period.
 - B. Additives represented for use do not contain VOC.
 - C. All in-plant roads and traffic areas associated with the operation of the concrete batch plant shall be paved with a cohesive hard surface which can be cleaned by sweeping or washing upon detection of visible particulate emissions to maintain compliance with all TCEQ rules and regulations. *(This condition must be used for permanent facilities.)*

Or....

- C. All in-plant roads and traffic areas associated with the operation of the concrete batch plant shall be sprayed with water and/or environmentally sensitive chemicals upon detection of visible particulate emissions to maintain compliance with all the TCEQ rules and regulations. *(This condition can be used only for temporary facilities.)*
- D. All stockpiles shall be sprayed with water and/or other dust suppressants to maintain compliance with TCEQ rules and regulations.
- E. All bulk storage silos and/or auxiliary bulk storage trailers shall be equipped with a fabric filter baghouse or vented to a central collection system designed to meet at least 0.01 outlet grain loading (grain/dry standard cubic feet).

- F. A visible and/or audible warning device shall be installed on each cement and/or fly ash silo or auxiliary bulk storage trailer to warn operators that the silo or trailer is full to prevent overloading.
- G. The cement weigh hopper shall be enclosed and vented to the cement silo, to its own fabric filter baghouse or to a central collection system designed to meet at least 0.01 outlet grain loading (grain/dry standard cubic feet).
- H. The truck drop point shall be controlled by a suction shroud, enclosure or other pickup device and vented to a fabric or cartridge filter system with a minimum of 4,000 actual cubic feet per minute of air. *(This condition must be used for permanent facilities.)*

Or....

- H. The truck drop point shall be controlled by a water fog ring having low velocity fog nozzles spaced to create a continuous fog curtain that controls dust emissions. *(This condition can be used for temporary facilities only.)*
6. Spillage of cement, fly ash, and any other chemical admixture used in the batch shall be cleaned up or controlled to maintain compliance with TCEQ rules and regulations.
 7. All stationary equipment authorized by this permit shall be prominently marked to show the assigned TCEQ regulated entity number or permit number, excluding the location suffix (example: L001). These markings must be clearly visible. These identification markings shall be removed from the equipment when it is no longer authorized by the TCEQ.

MOVEMENT OF A PORTABLE PLANT

8. The following are requirements for movement of portable plants:
 - A. Prior to moving permitted plants or sources to any new site (even if authorization for the site has previously been granted), the holder of the permit shall request relocation or change of location authorization and obtain written approval from a delegated representative of the TCEQ Executive Director. Additionally, once construction has begun at any site, the applicant shall notify the appropriate TCEQ Regional Office and local air pollution control programs in writing of the actual dates of start of construction and operation.
 - B. The appropriate TCEQ regional office may approve the following types of relocations:
 - (1) A permitted plant and associated equipment to be located temporarily* in the right-of-way, or contiguous to the right-of-way, of a public works project, or

*(*Note: A temporary plant is one that occupies a designated site for not more than 180 consecutive days or supplies materials for a single project (single contract or same contractor for related project*

segments, but not other unrelated projects.))

- (2) A portable concrete batch plant moving to a site where a portable facility has been located at the site at any time during the previous two years.
- C. If the holder of the permit meets either (1) or (2) above, then they shall submit a request letter to the appropriate TCEQ Regional Office prior to relocating. After evaluating the relocation request, the TCEQ Regional Office will send a written response to the permit holder. The permit holder shall submit the following information to the TCEQ Regional Office:
- (1) Company name, address, company contact, and telephone number;
 - (2) Copy of existing permit conditions and the maximum allowable emission rates table that are in effect for the permitted facility;
 - (3) TCEQ account number, regulated entity number (RN), customer reference number (CN) and permit number;
 - (4) Location description of the proposed site (city, county, and exact location description);
 - (5) A plot plan to scale that identifies the location of all equipment and stockpiles and that the required distances to the property lines can be met;
 - (6) A scaled area map that identifies the distance and direction to the closest off-property receptor (if required) and clearly indicates how the facility is contiguous or adjacent to a public works project right-of-way (if required);
 - (7) Proposed date for start of construction and expected date for start of operation;
 - (8) Expected time period at the proposed site; and
 - (9) If applicable, the permit number of the portable plant that was located at the proposed site in the last two years.
- D. To move a permitted concrete batch plant and associated equipment to a site that does not meet either 8B(1) or 8B(2), the holder of this permit shall submit a change of

location request to the TCEQ Air Permits Division, c/o Air Permits Initial Review Team, MC-161, P.O. Box 13087, Austin, Texas 78711-3087 using Form PI-1, along with all supporting documents. In accordance with the Texas Health and Safety Code §382.056, the applicant may be required to publish public notice prior to being authorized for a change of location to a new site.

- E. All relocation and change of location applications shall comply with the following conditions.
- (1) This concrete batch plant and all associated facilities and sources (silos, conveyors, screens, and equipment) shall be located a minimum of _____ feet from the property line and at least 550 feet from another concrete batch, rock crushing plant, or hot mix asphalt plant. *(This distance is determined during the permit review)*
 - (2) Stockpiles and vehicle traffic areas (except for entrance and exit to the site) shall be located at least 25 feet from any property line. In lieu of meeting the distance requirements for roads and stockpiles, the following may occur:
 - a. Roads and other traffic areas within the buffer distance must be bordered by dust suppressing fencing or other barrier along all traffic routes or work areas. These borders shall be constructed to a height of at least 12 feet; and
 - b. Stockpiles within this buffer distance must be contained within a three-walled bunker which extends at least two feet above the top of the stockpile.

DETERMINATION OF COMPLIANCE

9. Upon request by the TCEQ Regional Director having jurisdiction, the holder of this permit shall perform ambient air monitoring, or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere.
10. The differential pressure across each baghouse shall be continuously monitored and be recorded at least once every day the plant is in operation. The minimum and maximum pressure drop shall be established using the manufacturer's recommendations, engineering calculations, historical data, or the most recent performance test data. Documentation shall be maintained with the permit records providing the methodology used to determine the minimum and maximum pressure drop allowed. *(This condition addresses powered baghouses only)*

Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, and shall be accurate to within 0.5 inch water gauge pressure or 0.5% of span.

Quality assured data must be generated when the plant is operating except during the performance of a daily zero check. Loss of valid data due to periods of monitor breakdown, out-of-control operation (producing inaccurate data), repair, maintenance, or calibration may be exempted provided it does not exceed 5 percent of the time (in hours) that the facility generating emissions operated over the previous rolling 12-month period. The measurements missed shall be estimated using engineering judgment and the methods used recorded.

The holder of this permit shall perform monthly inspections to verify proper operation of all hooding, duct, and collection systems and to verify there are no holes, cracks, and/or other conditions that would reduce the collection efficiency of the emission capture system as represented. If the results of the inspections indicate that the capture system is not operating properly or is not achieving the represented collection efficiency, the permit holder shall promptly take necessary corrective actions.

RECORDKEEPING REQUIREMENTS

10. In addition to the record keeping requirements specified in General Condition No. 7, the following records shall be kept and maintained on site for a rolling 24-month period:
 - A. Concrete production in units of cubic yards per hour (yd³/hr) and cubic yards per year (yd³/yr);
 - B. Hours of operation;
 - C. Generator/Engine fuel usage (*if generator/engine authorized by this permit*);
 - D. Records of all repairs and maintenance of abatement systems;
 - E. Records of daily road cleaning, daily application of road dust control, or daily road maintenance for dust control;
 - F. Records of daily baghouse pressure drop measurements;
 - G. Records of all repairs and maintenance of abatement systems; and
 - H. Inspections of capture systems and abatement devices shall be recorded as they occur.