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Draft RG-056

# **Amended Air Quality Standard Permit for Concrete Batch Plants**

Air Permits Division  
Texas Natural Resource Conservation Commission

## **Table of Contents**

I. Executive Summary .....	1
II. Explanation and Background of Air Quality Standard Permit .....	1
III. Overview of Air Quality Standard Permit Amendment .....	1
IV. Permit Condition Analysis and Justification .....	1
V. Public Notice and Comment Period .....	2
VI. Public Meeting .....	2
VII. Analysis of Comments .....	2
VIII. Statutory Authority .....	2
Amendment to Air Quality Standard Permit for Concrete Batch Plants .....	4
Attachment A - Concrete Batch Plant Example Plant Layout .....	9
Attachment B - Compliance Analysis .....	12
Attachment C - Form PI-1S-CBP- Standard Permit Registration for Concrete Batch Plants .....	14
Attachment D - Concrete Batch Plant Standard Permit Checklist .....	19

# **CONCRETE BATCH PLANT AIR QUALITY STANDARD PERMIT AMENDMENT SUMMARY DOCUMENT**

## **I. EXECUTIVE SUMMARY**

In accordance with 30 TAC §116.605, Standard Permit Amendment and Revocation, the Texas Commission on Environmental Quality (TCEQ or commission) is proposing an amendment to the air quality standard permit for concrete batch plants (CBPs). This amendment will be effective on July 10, 2003.

## **II. EXPLANATION AND BACKGROUND OF AIR QUALITY STANDARD PERMIT**

The New Source Review Program under Chapter 116 requires any person who plans to construct any new facility or to engage in the modification of any existing facility which may emit air contaminants into the air of the state to obtain a permit pursuant to 30 TAC §116.111, General Application, or satisfy the conditions of a standard permit, a flexible permit, or a permit by rule, before any actual work is begun on the facility. A standard permit authorizes the construction or modification of new or existing facilities which are similar in terms of operations, processes, and emissions.

The proposed amendment to the standard permit for concrete batch plants is applicable to an owner or operator of a temporary concrete plant that has been previously reviewed by the commission for compliance with the technical provisions of this standard permit and supplies concrete to a public works project and is located in or contiguous to the right of way of that project. In lieu of the current registration requirement, these temporary facilities may instead choose to register by notifying the appropriate regional office in writing at least 30 calendar days prior to locating at the site. Once the notification has been made, the facility will be considered registered at the new site as of the date represented on the notification for arrival on site. General requirements concerning distance limits, emission limits, control requirements, and recordkeeping have not changed.

However, a technical clarification has been made referencing the checklist requirement that is already applicable to both permanent and temporary CBPs.

## **III. OVERVIEW OF AIR QUALITY STANDARD PERMIT AMENDMENT**

The commission is issuing an amendment to the standard permit for CBPs under 30 TAC Chapter 116, Subchapter F, Control of Air Pollution by Permits for New Construction or Modification. Facilities previously authorized under the concrete batch plant standard permit will be able to use the new notification requirement immediately because the technical requirements have not changed. New facilities not previously authorized by the commission that want to locate on a public works site will first have to register in accordance with subsection (1)(A) of this standard permit .

## **IV. PERMIT CONDITION ANALYSIS AND JUSTIFICATION**

Throughout the standard permit, the term “TCEQ” will replace the term “TNRCC”.

### Administrative Requirements

Paragraph (1) of the standard permit outlines the administrative requirements all facilities must meet. Subsection(A) requires facilities authorized by this standard permit to be registered in accordance with 30 TAC §116.611, however facilities that meet the conditions of this standard permit do not have to meet the emissions and distance limitations in 30 TAC §116.610(a)(1), Applicability. This amendment clarifies an existing requirement that in addition to submitting a Form PI-1S-CBP, and a Table 20 “Concrete Batch Plants” all applicants are required to submit a Concrete Batch Plant Standard Permit Checklist with each standard permit application. Under this amendment, the Concrete Batch Plant Standard Permit Checklist will be referenced in the standard permit itself.

## Requirements for Temporary Plants

Paragraph (5) outlines the requirements for temporary batch plants. As with the current permit-by-rule in 30 TAC Chapter 106, temporary batch plants are defined as those that occupy a site for not more than 180 consecutive days or supply concrete for a single project (or for the same contractor for related project segments).

New subsection (5)(E) allows a CBP, that has been previously registered with the commission for this standard permit, will be located in or contiguous to the right of way of a public works project and will supply concrete exclusively to the public works project, to locate without the process described in (1)(A). In this case the owner or operator should provide written notice to the appropriate regional office and any local air pollution control agency having jurisdiction no less than 30 calendar days prior to locating at the site. This notice shall include the owner's and, if applicable, the operator's name, address, and phone number as well as the physical description of the site, scaled plot plan of site with location of equipment authorized by this standard permit, concrete plant serial number, account number or regulated entity number, expected date of arrival, expected date to vacate the site, a completed Table 20, and a Concrete Batch Plant Standard Permit Checklist.

This amendment makes clear the commission's intention to expedite the authorization process for concrete batch plant public works projects. This will be accomplished by allowing the region to authorize public works projects.

### **V. PUBLIC NOTICE AND COMMENT PERIOD**

In accordance with 30 TAC § 116.605, the TCEQ published notice of the proposed amended standard permit in the *Texas Register* and newspapers of the largest general circulation in Austin, Houston and Dallas on January 10, 2003. The comment period closed on February 13, 2003.

### **VI. PUBLIC MEETING**

A public meeting on the proposal was offered on February 13, 2003 at 10:00 a.m., at the Texas Commission On Environmental Quality, Building E, Room 254S, 12100 Park 35 Circle, Austin, Texas. **No one signed in to make oral comments or written comments and the meeting was canceled.**

### **VII. ANALYSIS OF COMMENTS**

Written comments were received from the Harris County Public Health and Human Services Pollution Control Division (HCPC) and J.L. Steel, L.P (JLS).

HCPC commented that in addition to providing notification 30 days in advance to the appropriate TCEQ regional office, the owner/operator of a CBP relocating to a public works site should also give notification 30 days in advance to any local air pollution control agency having jurisdiction.

**The commission agrees with the comment. Subsection (5)(E) has been changed to include a requirement to notify, "any local air pollution control agency having jurisdiction," no less than 30 days prior to locating on the site.**

JLS supported the commissions intention to expedite the authorization process for concrete batch plants on public works projects.

**The commission appreciates the favorable comment.**

### **VIII. STATUTORY AUTHORITY**

This amended standard permit is issued under Texas Health and Safety Code (THSC) § 382.05195, which authorizes the commission to issue and amend standard permits according to the procedures set out in that section; THSC §

382.058(d), to prohibit submittal of air dispersion modeling by applicants when applying for a registration which has been based on a comprehensive modeling and impacts review; THSC § 382.011, which authorizes the commission to administer the requirements of the THSC; and THSC § 382.051(b)(3), which authorizes the commission to issue a standard permit for numerous similar facilities.

## **Air Quality Standard Permit for Concrete Batch Plants**

*Effective Date July 10, 2003*

This air quality standard permit authorizes concrete batch plant facilities which meet all of the conditions listed in paragraphs (1) through (3) and one of paragraphs (4), (5) or (6). If a standard permit registration is based on paragraphs (4), (5), or (6) and changes are proposed which change the paragraph under which the facility will be constructed and operate, the concrete batch plant must reapply for a new standard permit.

### (1) Administrative Requirements

- (A) Any concrete batch plant authorized under this standard permit shall be registered in accordance with 30 TAC 116.611, Registration to Use a Standard Permit. Owners or operators shall submit a completed current PI-1S-CBP, Table 20 and a Concrete Batch Plant Standard Permit checklist. Facilities which meet the conditions of this standard permit do not have to meet the emissions and distance limitations listed in 30 TAC 116.610(a)(1), Applicability.
- (B) Registration applications shall also comply with 30 TAC § 116.614 “Standard Permit Fees” when the registration is required to complete public notification under paragraph two of this standard permit.
- (C) No owner or operator of a concrete batch plant shall begin construction and/or operation without obtaining written approval from the executive director. The time period in 30 TAC § 116.611(b) (45 days) does not apply to facilities registering under this permit. Those facilities which are not required to comply with the public notification requirements of paragraph two should receive approval within 45 days after receipt of the registration request by the executive director. Start of construction of any facility registered under this standard permit shall comply with 30 TAC § 116.115 (b)(2)(A) and commence within 18 months of written approval from the TNRCC.
- (D) Any concrete batch plant which has registered but not constructed or filed a registration request for a permit-by-rule filed under 30 TAC §§ 106.201, 106.202, or 106.203 (relating to Permanent and Temporary Concrete Batch Plants [Previously SE 71]; Temporary Concrete Batch Plants [Previously SE 93]; and Specialty Batch Plants [Previously SE 117]) prior to the effective date of this permit will be processed under those rules.
- (E) Applicants are not required to submit air dispersion modeling as a part of any concrete batch plant standard permit application.
- (F) Records shall be maintained on-site for the following:
  - (i) production rates for each hour of operation which demonstrate compliance with the most applicable of paragraphs (4)(A), (5)(B) and (C), or (6)(C) and (D); and
  - (ii) production and other records as required by 30 TAC §§ 101.6-101.7 and by (1)(F)(i) of this

standard permit shall be kept for lesser of either the most recent rolling 24-month period or the duration of operation at a given site.

(2) Public Notice

Unless the facility is to be a temporary concrete plant, as defined in paragraph five of this permit, which is located in, or contiguous to, the right-of-way of a public works project, public notice must be conducted. Notification must follow the requirements in 30 TAC Chapter 39, Subchapters H & K. In addition, sign posting must be performed following the requirements of 30 TAC § 39.604. The signs shall be headed by the words “PROPOSED AIR QUALITY STANDARD PERMIT”.

(3) General Requirements

- (A) All cement/flyash storage silos and weigh hoppers shall be equipped with a fabric or cartridge filter or vented to a fabric or cartridge filter system.
- (B) Fabric filters and collection systems shall meet all of the following:
  - (i) any fabric or cartridge filter, any fabric or cartridge filter system, and any suction shroud shall be maintained and operated properly with no tears or leaks;
  - (ii) all filter systems (including any central filter system) shall be designed to meet at least 0.01 outlet grain loading (grains/dry standard cubic foot);
  - (iii) all filter systems, mixer loading, and batch truck loading emissions control devices shall meet a performance standard of no visible emissions exceeding 30 seconds in any six-minute period as determined using U.S. Environmental Protection Agency (EPA) Test Method (TM) 22; and
  - (iv) when cement or flyash silos are filled during non-daylight hours, the silo filter system exhaust shall be sufficiently illuminated to enable a determination of compliance with the visible emissions requirement in (3)(B)(iii) of this permit.
- (C) Conveying systems for the transfer of cement/flyash shall meet all of the following:
  - (i) conveying systems to and from the storage silos shall be totally enclosed, operated properly, and maintained with no tears or leaks; and
  - (ii) these systems, except during cement/flyash tanker connect and disconnect, shall meet a performance standard of no visible emissions exceeding 30 seconds in any six-minute period as determined using EPA TM 22.
- (D) A warning device shall be installed on each bulk storage silo. This device shall alert operators in sufficient time prior to the silo reaching capacity during loading operations, so that the loading operation can be stopped prior to filling to such a level as to potentially adversely impact the pollution abatement equipment. Any filling of the silo resulting in failure of the abatement system, or visible emissions in excess of paragraph (3)(B)(iii) of this standard permit, must be documented and reported following the requirements of 30 TAC § 101.6 or 30 TAC § 101.7, as appropriate.

- (E) Dust emissions from all in-plant roads and traffic areas associated with the operation of the concrete batch plant must be minimized at all times by at least one of the following methods:
    - i. covered with a material such as, but not limited to, roofing shingles or tire chips (when used in combination with (ii) or (iii) of this subsection);
    - (ii) treated with dust-suppressant chemicals;
    - (iii) watered; or
    - (iv) paved with a cohesive hard surface that is maintained intact and cleaned.
  - (F) All stockpiles shall be sprinkled with water, dust-suppressant chemicals, or covered, as necessary, to minimize dust emissions.
  - (G) Spillage of materials used in the batch shall be immediately cleaned up and contained or dampened so that dust emissions are minimized.
- (4) Additional Requirements for Concrete Batch and Specialty Batch Concrete, Mortar, Grout Mixing, or Pre-cast Concrete Products Plants
- (A) Site production shall not exceed 30 cubic yards per hour.
  - (B) As an alternative to the requirement in paragraph (3)(A) of this section, the cement/flyash weigh hopper may be vented inside the batch mixer.
  - (C) Dust emissions at the batch mixer feed shall be controlled by one of the following:
    - (i) a spray device which eliminates visible emissions;
    - (ii) a pickup device delivering air to a fabric or cartridge filter;
    - (iii) an enclosed batch mixer feed such that no visible emissions occur; or
    - (iv) conducting the entire mixing operation inside the enclosed process building such that no visible emissions from the building occur during mixing activities.
  - (D) Except for incidental traffic, vehicles used for the operation of the concrete batch plant may not be operated within 25 feet of any property line, except for entrance and exit to the site. In lieu of meeting this distance requirement, roads and other traffic areas must be bordered by dust preventive fencing or other barrier along all traffic routes or work areas within the 25-foot specified buffer area. These borders shall be constructed to a height of at least 12 feet.
- (5) Additional Requirements for Temporary Concrete Plants
- For the purposes of this section, a temporary concrete plant is one that occupies a designated site for not more than 180 consecutive days or supplies concrete for a single project (single contract or same contractor for related project segments), but not other unrelated projects.
- (A) Site production shall be limited to no more than 300 cubic yards per hour.
  - (B) Dust control at the truck drop or mixing point shall comply with one of the following:
    - (i) Facilities which occupy a site for less than 180 consecutive days and have production rates

less than 200 cy/hr may load rotary mix trucks through a discharge spout equipped with a water fog ring having low-velocity fog nozzles spaced to create a continuous fog curtain that minimizes dust emissions. If a water fog ring is used at the truck drop point, the visible emissions limitations (and associated compliance determination methods) of subsection (3)(B)(3) and (4) must be met.

- (ii) All other facilities must use a suction shroud and fabric filter /cartridge filter system. The suction shroud or other pickup device shall be installed at the batch drop point (drum feed for central mix plants) and vented to a fabric or cartridge filter system with a minimum of 4,000 actual cubic feet per minute of air and must meet subsection (3)(B).
- (C) All of the following applicable distance limitations must be met. For concrete batch plants which supply concrete for a single public works project, the “property line” measurements for purposes of compliance with this standard permit and 30 TAC § 111.155 shall be made to the outer boundaries of the designated public property, roadway project and associated rights-of-way.
- (i) The suction shroud baghouse exhaust or truck drop point shall be located at least 100 feet from any property line.
  - (ii) For those facilities with a water fog ring, the truck drop point shall be a minimum of 300 feet from the nearest non-industrial receptor.
  - (iii) Stationary equipment, stockpiles, or vehicles used for the operation of the concrete batch plant (except for incidental traffic and the entrance and exit to the site) may not be located or operated, respectively, within the following specified distances from any property line:
    - (iv) for those facilities with production rates less than or equal to 200 cubic yards per hour, at least 25 feet; and
    - (v) for those facilities with production rates more than 200 and less than or equal to 300 cubic yards per hour, at least 50 feet.
- (D) In lieu of meeting the distance requirements for roads and stockpiles of (5)(C)(iii), the following may be followed:
- (i) 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 twelve (12) feet; and
  - (ii) stockpiles within this buffer distance must be contained within a three-walled bunker which extends at least two (2) feet above the top of the stockpile.
- (E) The owner or operator of a temporary concrete plant that has previously been determined by the commission to be in compliance with the technical requirements of the standard permit in effect at the time of registration, which supplies concrete to a public works project and is located in or contiguous to the right of way of that public works project may, in lieu of the registration requirement in subsection(1)(A) of this standard permit, register by notifying the appropriate TCEQ

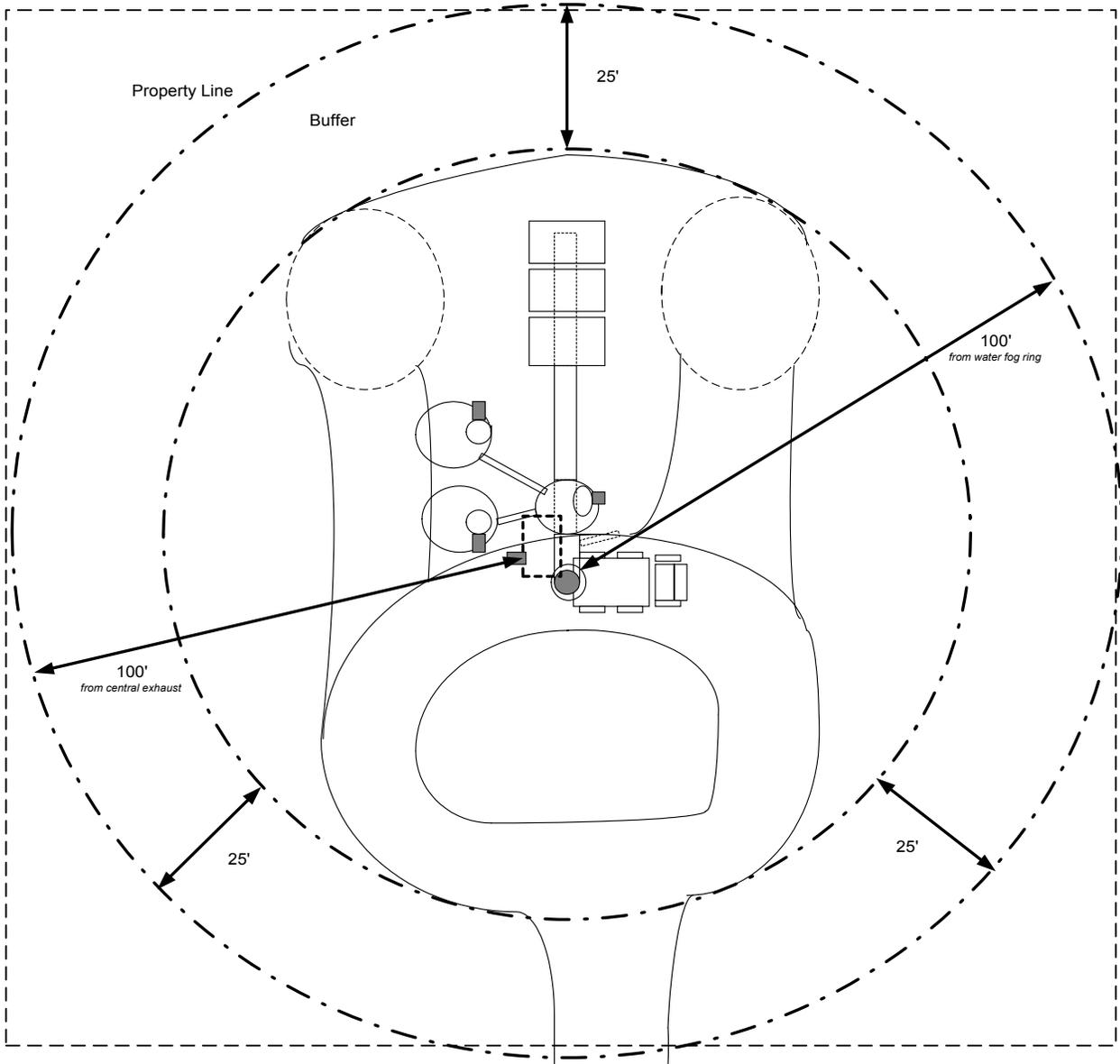
regional office and any local air pollution control agency having jurisdiction in writing at least 30 calendar days prior to locating at the site. The notification shall include the owner and, if applicable, the operator's name, address, and phone number as well as the physical description of the site, scaled plot plan of site with location of equipment authorized by this standard permit, concrete plant serial number, account number or regulated entity number, expected hours of operation, expected date of arrival on site and expected date to vacate the site, a completed Table 20, and a Concrete Batch Plant Standard Permit Checklist. Temporary concrete plants that do not supply concrete to a public works project must apply for a new registration under subsection (1)(A) of this standard permit in order to relocate at a new site.

(6) Additional Requirements for Other Concrete Plants

- (A) Site production shall be limited to no more than 300 cubic yard per hour.
- (B) A suction shroud or other pickup device shall be installed at the batch drop point (drum feed for central mix plants) and vented to a fabric or cartridge filter system with a minimum of 4,000 actual cubic feet per minute of air.
- (C) All entry and exit roads and main traffic routes associated with the operation of the concrete batch plant (including batch truck and material delivery truck roads) shall be paved with a cohesive hard surface that can be maintained intact and shall be cleaned. All batch trucks and material delivery trucks shall remain on paved surface when entering, conducting primary function, and leaving the property. Other traffic areas must comply with the control requirements of paragraph (3)(E).
- (D) The following distance limitations must be met:
  - (i) the suction shroud baghouse exhaust shall be at least 100 feet from any property line;
  - (ii) stationary equipment, stockpiles, or vehicles used for the operation of the concrete batch plant (except for incidental traffic and the entrance and exit to the site) may not be located or operated, respectively, within the following specified distances from any property line:
  - (iii) for those facilities with production rates less than or equal to 200 cubic yards per hour, at least 25 feet; and
  - (iv) for those facilities with production rates more than 200 and less than or equal to 300 cubic yards per hour, at least 50 feet.
- (E) In lieu of meeting the distance requirements for roads and stockpiles of (5)(C)(ii), the following may be followed:
  - (i) 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
  - (ii) 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.

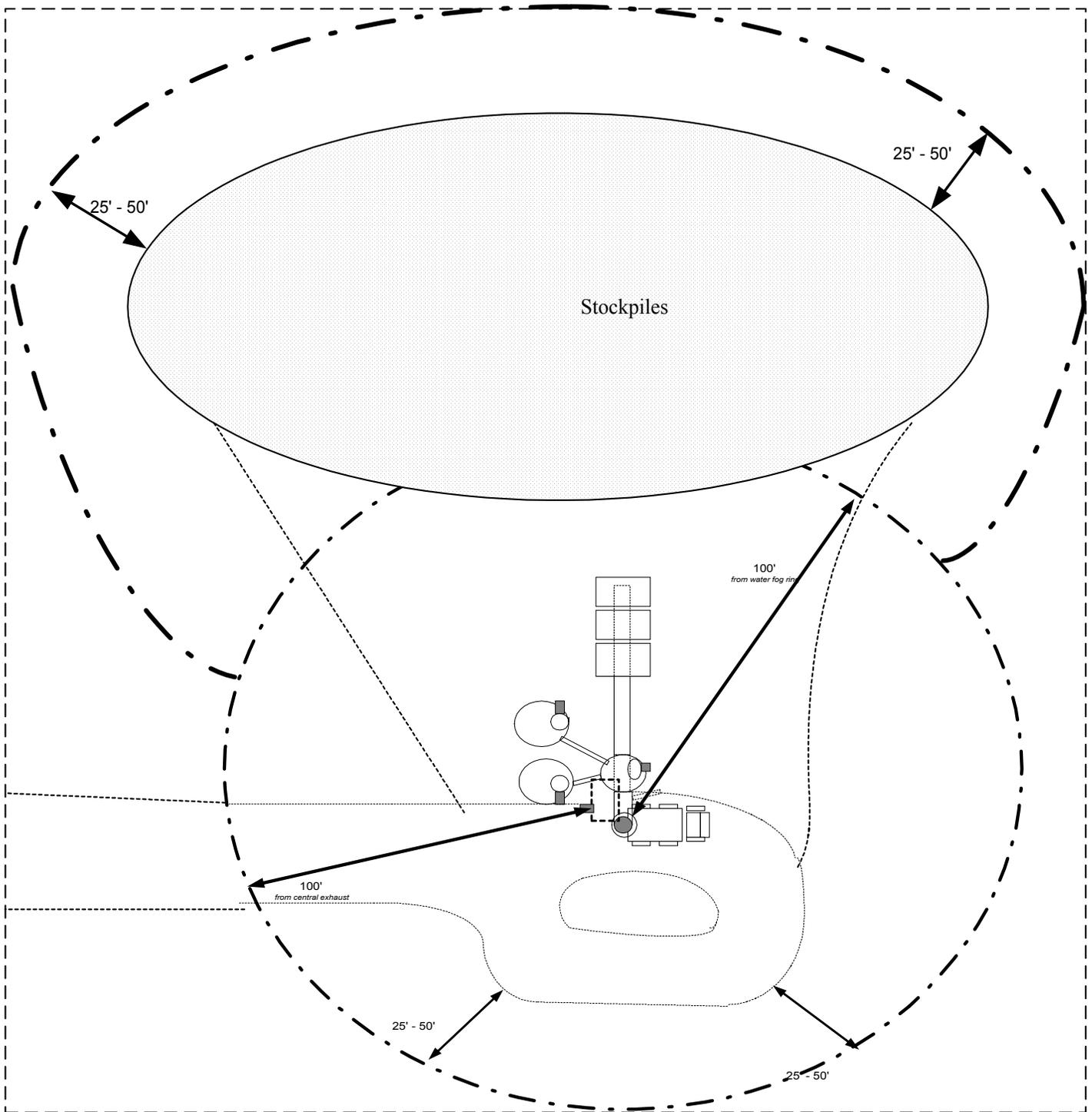
**ATTACHMENT A**  
**Concrete Batch Plant Example Plant Layouts**

CONCRETE BATCH PLANT EXAMPLE PLANT LAYOUTS  
*For Illustrative Purposes Only*



Minimum

um Property Size = <1.0 acre (40,000 sq feet for 200' x 200' )



Average Expected Property Size for Typical Plant Reviewed = 1.6 acres to 3.8 acres

**ATTACHMENT B**  
**Compliance Analysis**

## Compliance Analysis

Scenario	1-Hour			3-Hour		
	Highest Number of Exceedances at 100' <sup>A</sup>	Distance to Model 100% Compliance <sup>B</sup>	Expected Compliance at 100' <sup>C</sup>	Highest Number of Exceedances at 100' <sup>A</sup>	Distance to Model 100% Compliance <sup>B</sup>	Expected Compliance at 100' <sup>C</sup>
Specialty Building	0	17'	100% <sup>E</sup>	0	17'	100% <sup>E</sup>
Specialty Outdoor	1	70'	100% <sup>E</sup>	0	70'	100% <sup>E</sup>
200 yd <sup>3</sup> Temporary	60	140'	100%	20 <sup>D</sup>	240'	100% <sup>D</sup>
200 yd <sup>3</sup> Permanent	0	70'	100%	0	90'	100%
300 yd <sup>3</sup> Permanent <sub>F</sub>	1	130'	100%	9 <sup>D</sup>	160'	100% <sup>D</sup>

Footnotes:

- <sup>A</sup> Exceedances of the standard are based on years of meteorological data (43,824 individual hours or 14,608 three-hour blocks) and are at a single receptor.
- <sup>B</sup> This column represents the point where the model predicts no exceedances. Distances were rounded up. Distance measured from the central baghouse or the mix truck loading point.
- <sup>C</sup> The receptor that had the highest number of exceedances was used for the analysis. These values include the modeled frequency (99.9% to 100%) plus additional analysis of the conservative assumptions used in the protectiveness evaluation (100%). In all cases, facilities and associated sources are expected to comply with all rules and regulations.
- <sup>D</sup> Analysis based on an adjusted maximum hourly rate which represents 90% sustained production. This rate would be the maximum rate for a 180 yd<sup>3</sup> temporary plant and a 270 yd<sup>3</sup> fixed plant.
- <sup>E</sup> Specialty plant compliance assumes no (0 feet) distance to property lines from the mixing point.
- <sup>F</sup> This scenario also applies to temporary plants equipped with central baghouses.

**ATTACHMENT C**  
**Form PI-1S-CBP**  
**Standard Permit Application for Concrete Batch Plant**

**TEXAS NATURAL RESOURCE CONSERVATION COMMISSION**  
**AIR QUALITY STANDARD PERMIT REGISTRATION for CONCRETE BATCH PLANTS**  
**FORM PI-1S-CBP**



Please print or type all information. This form is for use by Concrete Batch Plants ONLY. All other air quality standard permit registrations should use Form PI-1S. Please contact the Mechanical/Combustion Section of the Air Permits Division with any questions at (512) 239-1250 or Fax (512) 239-1300. Written inquiries may be addressed to: Texas Natural Resource Conservation Commission, Office of Permitting, Air Permits Division (MC-162), P.O. Box 13087, Austin TX 78711-3087. The registrant is encouraged to use an administrative completeness checklist, available on request, to assist in providing the required information.

**Forward application and supporting documentation to TNRCC, Air Permits Division (MC-162) P.O. Box 13087, Austin, TX 78711-3087; Forward any fees and a copy of this form only to Cashier, TNRCC, P.O. Box 13088, Austin, TX 78711-3088.**

**I. VERY IMPORTANT INFORMATION**

A. Is CONFIDENTIAL information part of this registration?	9 YES	9 NO
If "YES", is each confidential page so marked in big red letters?	9 YES	9 NO
B. Is this registration in response to, or related in any way to, a Notice of Violation at this location?	9 YES	9 NO
If "YES", date of Notice of Violation: _____ and the specific TNRCC rule(s) violated: _____		
C. Are the new facilities or changes to existing facilities represented in this registration required to be permitted as a disposal facility under the Texas Solid Waste Disposal Act?	9 YES	9 NO
D. Does this action result in the registration of any grandfathered facilities?	9 YES	9 NO

**II. REGISTRANT INFORMATION**

<p>A. <b>PERMITTEE:</b> _____  <i>(Entity legally responsible for permit; i.e., Owner or Operator of the facility)</i></p> <p>Individual Authorized to Act for Registrant: Name: _____ Title: _____</p> <p>Texas State Comptroller's Tax ID No.: _____</p> <p>Mailing Address: _____</p> <p>Telephone: (____) _____ Fax: (____) _____</p> <p>Technical Contact and Designee for Public Notice Period Questions: Name: _____</p> <p>Email Address: _____ Mailing Address: _____</p> <p>Telephone: (____) _____ Fax: (____) _____</p>
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<p>B. <b>TYPE OF FACILITY:</b>  <i>(check one):</i> 9 Permanent (Central or Ready Mix)    9 Portable Ready Mix    9 Permanent Specialty</p> <p>Name of Facility and Company's Facility No.: _____</p> <p>TNRCC Account ID NO. <i>(if known)</i>: _____ - _____ - _____</p> <p>Previous Exemption, Permit-by-Rule or Permit No.: _____</p> <p>Proposed Start of Construction: _____ Length of Time at this Site: _____</p>
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<p>C. <b>PHYSICAL LOCATION OF FACILITY:</b>  Street Address or Description of Location: _____</p> <p style="text-align: center;">_____</p> <p style="text-align: center;"><i>(A physical address or accurate driving directions <u>must</u> be provided on all registrations.)</i></p> <p>Nearest City: _____ Zip Code: _____ County: _____</p> <p>Latitude: _____ Longitude: _____ <i>(Latitude and Longitude must be to the nearest second)</i></p>
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**III. PUBLIC NOTIFICATION INFORMATION**

Contiguous or adjacent to Public Works Project? 9 YES 9 NO  
 Total number of employees of the **company** requesting this application: \_\_\_\_\_  
 Please list the location (public place in the county where the facilities are/will be located) where you are planning to place a copy of the application for public review and copying during the public comment period:  
 \_\_\_\_\_  
 Please furnish the names of the state legislators who represent the area where the facility site is located:  
 State Senator: \_\_\_\_\_ State Representative: \_\_\_\_\_

TNRCC FORM PI-IS-CBP, AIR QUALITY STANDARD PERMIT REGISTRATION FOR CONCRETE BATCH PLANT

**IV. FEE and FRANCHISE TAX INFORMATION:**

- A fee of \$450 is attached. 9 YES 9 NO If no, explain why: \_\_\_\_\_  
*A permit fee is required if public notice must be performed.*  
 Please forward the fee and a copy of this form to: Cashier, TNRCC, P.O. Box 13088, Austin, TX 78711-3088
- A copy of a Certificate of Good Standing from the State Comptroller's Office is attached. 9 YES 9 NO  
 If no, explain why: \_\_\_\_\_ *If the permittee is a corporation, a certification is required.*

**V. SUBMIT THE FOLLOWING GENERAL INFORMATION:**

- A. A current area map is attached. 9 YES 9 NO  
*A current area map is required for all standard permit registrations. This map must show a true north arrow, the entire plant property, and the location of the property relative to prominent geographical features such as highways, roads, streams, and significant landmarks such as buildings, residences, and schools. All areas within one mile of any plant boundary must appear on this map.*
- B. A plot plan is attached. 9 YES 9 NO  
*A plot plan is required for all standard permit registrations. The plot plan must show the plant property and clearly show all property lines, affected emission points, buildings, tanks, process vessels, and other process equipment. The plot plan must have a scale, must indicate a true north arrow, must reference a plant bench mark, and must be dated.*
- C. A process description is attached. 9 YES 9 NO If NO, explain why: \_\_\_\_\_  
*A process description and process flow diagram should be submitted for all registrations and must include a description of the project and related processes, and a description of any equipment being installed. The description must be in sufficient detail to indicate that the facility will conform to the specified conditions of the standard permit. If alternative fencing or borders are proposed in lieu of distance setbacks for stockpiles and roads, these design specifics must be included.*

D. Submit the following emissions data (including fugitive emissions) and the basis of emissions estimates:

Emission Point Number	Name of Source	Emission Rate of Each Air Contaminant			
		lb/hr		tons/yr	
		Total Suspended Particulate (PM)	Particulate Matter < 10 microns (PM <sub>10</sub> )	Total Suspended Particulate (PM)	Particulate Matter < 10 microns (PM <sub>10</sub> )

TNRCC FORM PI-IS-CBP, AIR QUALITY STANDARD PERMIT REGISTRATION FOR CONCRETE BATCH PLANT

**VI. GENERAL REQUIREMENTS:**

Submit itemized information and/or analysis demonstrating that all applicable general requirements as specified in TNRCC Rules - attach additional information as necessary to justify the following answers.

Please note: Atmospheric dispersion modeling will not be required as part of the air quality impact analysis.

- N/A § 116.610(a)(1) – Not applicable
- 9 YES 9 NO 9 N/A § 116.610(a)(2) – The construction or operation of the permitted sources will commence prior to the effective date of a revision of this standard permit under which the project would no longer meet the requirements for the standard permit
- N/A § 116.610(a)(3) – The proposed project will comply with applicable provisions of federal New Source Performance Standards (NSPS)
- 9 YES 9 NO 9 N/A § 116.610(a)(4) – The proposed project complies with applicable provisions of Federal Clean Air Act (FCAA) § 112 (Hazardous Air Pollutants) under Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61).
- 9 YES 9 NO 9 N/A § 116.610(a)(5) – The proposed project complies with applicable Maximum Achievable Control Technology (MACT) standards under FCAA 40 CFR Part 63.
- 9 YES 9 NO 9 N/A § 116.610(b) – The proposed project does not constitute a new major source or major modification for Prevention of Significant Deterioration (PSD) or nonattainment permits
- 9 YES 9 NO 9 N/A § 116.610(c) – The proposed project does not circumvent by artificial limitations the requirements of 30 TAC § 116.610

**VII. A COPY OF THIS REGISTRATION** and all attachments must be sent by the registrant to the following:

- A. Appropriate TNRCC Regional Office (City): \_\_\_\_\_
- B. Local Programs: 1. \_\_\_\_\_  
2. \_\_\_\_\_  
9-NO LOCAL PROGRAMS

**VIII. PROFESSIONAL ENGINEER SEAL:**

Is the estimated capital cost of this project greater than \$2 million dollars? 9 YES 9 NO

If **YES**, registration must be submitted under seal of a Texas Licensed Professional Engineer, unless exemption is claimed pursuant to the Texas Engineering Practice Act (TEPA).

9 Exemption from this P.E. seal requirement is claimed pursuant to TEPA Section \_\_\_\_\_

**IX.** I, \_\_\_\_\_  
(Name - Please print or type) (Title: Owner, Plant Manager, President, Vice President, Environmental Director, etc. )

state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which registration is made will not in any way violate any provision of the Texas Health & Safety Code (THSC), Chapter 382, Texas Clean Air Act, as amended, or any of the rules and regulations of the Texas Natural Resource Conservation Commission adopted under Chapter 382 or any local governmental ordinance or resolution pursuant to the Texas Clean Air Act. I further state that I have read and understand Section 382.091, THSC, which defines CRIMINAL OFFENSES for certain violations, including intentionally or knowingly making or causing to be made false material statements or representations in this registration, and Section 382.092, THSC, pertaining to CRIMINAL PENALTIES.

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

NOTE - ORIGINAL SIGNATURE IN INK IS REQUIRED.

TNRCC FORM PI-IS-CBP, AIR QUALITY STANDARD PERMIT REGISTRATION FOR CONCRETE BATCH PLANT

## Texas Natural Resource Conservation Commission: Regional Offices

<u>No.</u>	<u>Region</u>	<u>No.</u>	<u>Region</u>	<u>No.</u>	<u>Region</u>
1	<b>Amarillo:</b> 3918 Canyon Drive Amarillo, Texas 79109-4933 FAX: 806-358-9545	7	<b>Midland:</b> 3300 North A St. Building A, Suite 107 Midland, Texas 79705-5404 FAX 915-570-4795	12	<b>Houston:</b> 5425 Polk, Suite H Houston, Texas 77023-1423 FAX 713-767-3761
2	<b>Lubbock:</b> 4630 50th, Suite 600 Lubbock, Texas 79414-3520 FAX 806-796-7107	8	<b>San Angelo:</b> 622 S. Oakes, St. K San Angelo, Texas 76903-7013 FAX 915-658-5431	13	<b>San Antonio:</b> 140 Heimer Road, Suite 360 San Antonio, Texas 78232-5042 FAX 210-545-4329
3	<b>Abilene:</b> 1977 Industrial Blvd Abilene, Texas 79602-7833 FAX 915-692-5869	9	<b>Waco:</b> 6801 Sanger Avenue, Suite 2500 Waco, Texas 76710-7807 FAX 254-772-9241	14	<b>Corpus Christi</b> Natural Resource Center 6300 Ocean Drive, Suite 1200 Corpus Christi, Texas 78412 FAX 361-825-3101
4	<b>Arlington:</b> 1101 East Arkansas Lane Arlington, Texas 76010-6499 FAX 817-469-2519	10	<b>Beaumont:</b> 3870 Eastex Fwy., Suite 110 Beaumont, Texas 77703 FAX 409-892-2119	15	<b>Harlingen:</b> 1804 W. Jefferson Ave Harlingen, Texas 78550-5247 FAX 956-412-5059
5	<b>Tyler:</b> 2916 Teague Tyler, Texas 75701 FAX 903-595-1562	11	<b>Austin:</b> 1921 Cedar Bend, Suite 150 Austin, Texas 78758 FAX 512-339-3795	16	<b>Laredo:</b> 1403 Seymour, St. 2 Laredo, Texas 78040-8752 FAX 956-791-6716
6	<b>El Paso:</b> 401 E. Franklin Ave., St. 560 El Paso, Texas 79901-1206 FAX 915-834-4940				

## Local Programs

Austin-Travis County Health Department  
15 Waller Street  
Austin, Texas 78702  
FAX (512) 469-2030

City of Austin  
P.O. Box 1088  
Austin, Texas 78767  
FAX (512) 499-2859

Brazoria County Health Department  
436 East Mulberry  
Angleton, Texas 77515  
FAX (409) 849-0324

City of Carrollton Environmental Health Department  
P.O. Box 110535  
Carrollton, Texas 75011-0535  
FAX (972) 466-3175

City of Dallas Department of Health and Human Services  
320 E. Jefferson Street  
Dallas, Texas 75203  
FAX (214) 948-4426

El Paso City-County Health and Environmental District  
1148 Airways - Room 155  
El Paso, Texas 79925  
FAX (915) 771-5714

City of Farmers Branch Environmental Health Office  
P.O. Box 819010  
Farmers Branch, Texas 75381-9010  
FAX (972) 241-6305

Fort Worth Department of Environmental Management  
5000 MLK Freeway  
Fort Worth, Texas 76119-4166  
FAX (817) 871-5464

Galveston County Health District  
P.O. Box 939  
La Marque, Texas 77568  
FAX (409) 938-2321

Harris County Pollution Control Department  
P.O. Box 6031  
Pasadena, Texas 77506  
FAX (713) 475-8906

Houston Health and Human Services Department  
7411 Park Place  
Houston, Texas 77087  
FAX (713) 640-4343

Irving Department of Health  
P.O. Box 152288  
Irving, Texas 75015-2288  
FAX (972) 721-3634

City of Lewisville  
P.O. Box 29002  
Lewisville, Texas 75029-9002  
FAX (972) 219-3414

City of Nacogdoches Environmental Health  
P.O. Box 630648  
Nacogdoches, Texas 75963  
FAX (409) 560-5137

City of Richardson  
P.O. Box 830309  
Richardson, Texas 75083-0309  
FAX (972) 644-2618

San Antonio Metropolitan Health District  
332 West Commerce  
San Antonio, Texas 78205  
FAX (210) 207-8039

City of Sugar Land  
P.O. Box 110  
Sugar Land, Texas 77487-0110  
FAX (281) 275-2771

City of Webster  
311 Pennsylvania  
Webster, Texas 77598  
FAX (281) 332-5834

Wichita Falls-Wichita County Public Health Dist  
1700 Third Street  
Wichita Falls, Texas 76301-2199  
FAX (940) 761-7821

**ATTACHMENT D**  
**Concrete Batch Plant Standard Permit Checklist**

**Air Quality Standard Permit for Concrete Batch Plants**  
REGISTRATION CHECKLIST

The following checklist has been developed so the Texas Natural Resource Conservation Commission (TNRCC), Air Permits Division (APD) can confirm the concrete batch plant (CBP) meets the standard permit requirements. Please read all questions and check "YES", "NO", or "N/A" (equivalent to True, False, or Not Applicable), or give specific information for the facility. If the CBP does not meet all conditions of this standard permit, it will not be allowed to operate under the standard permit and must apply for a case-by-case preconstruction permit as required under Title 30 Texas Administrative Code § 116.111 (30 TAC § 116.111).

COMPANY: \_\_\_\_\_ LOCATION: \_\_\_\_\_

REGISTRATION NO.: \_\_\_\_\_ ACCOUNT ID NO.: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ COMPLETED BY: \_\_\_\_\_

(check one) 9 "specialty" - complete (1)-(4) 9 "temporary" - complete (1)-(3) and (5) 9 "permanent" - complete (1)-(3) and (6)

Condition Number	YES	NO	N/A	Description
(1)(A)				Registration Form PI-1S-CBP, Table 20, and supporting information attached/mailed to TNRCC, including air emission estimates, control devices and methods, process description, plot plan and area map
				Copies of all information mailed to Air Permits Division, regional office and applicable local programs
(1)(B)				\$450 fee sent to TNRCC Cashier (If "N/A", the answer to (2) must be "YES" )
(1)(C)				Construction and/or operation has begun on the facility
(1)(D)				Registration submitted to TNRCC after September 1, 2000
(1)(E)				Air dispersion modeling has been submitted as a part of this registration
(1)(F)				Records will be maintained on-site to show hourly production and kept for 24 months or duration of operation at this site.
(2)				Temporary facility located contiguous in or adjacent to the right-of-way of a public works project or related project segments (if "YES", public notice is not required)
(3)(A)				All cement/flyash storage silos and weigh hoppers are vented to a fabric or cartridge filter system
(3)(B)(i)				Fabric/cartridge filter systems and suction shroud will be operated properly with no tears or leaks
(3)(B)(ii)				All filter systems are designed to meet at least 0.01gr/dscf outlet
(3)(B)(iii)				All filter systems and mixer/truck loading control devices will meet visible emissions performance standards
(3)(B)(iv)				Cement and/or flyash silo filter exhausts are equipped with sufficient illumination to observe visible emissions performance if filled during non-daylight hours
(3)(C)(i)				Conveying systems to and from the silos are totally enclosed and maintained with no tears or leaks
(3)(C)(ii)				Except during cement/flyash tanker connect and disconnect, conveying systems to and from the storage silos will meet visible emissions performance standards
(3)(D)				A warning device will be installed on each bulk storage silo to alert operators in sufficient time so that the loading operation can be stopped prior to over-filling and potential failure of filter systems
(3)(E)(i)				All in-plant roads will be covered with a material such as roofing shingles or tire chips
				All traffic areas will be covered with a material such as roofing shingles or tire chips
(3)(E)(ii)				All in-plant roads will be treated with dust-suppressant chemicals
				All traffic areas will be treated with dust-suppressant chemicals
(3)(E)(iii)				All in-plant roads will be watered
				All traffic areas will be watered
(3)(E)(iv)				All in-plant roads will be paved with a cohesive hard surface that is maintained intact and cleaned

Condition Number	YES	NO	N/A	Description
(3)(F)				All traffic areas will be paved with a cohesive hard surface that is maintained intact and cleaned
(3)(G)				Dust emissions from all stockpiles will be minimized at all times by sprinkling with water, dust-suppressant chemicals, or covers
(4)				All material spills immediately cleaned up and contained or dampened so dust emissions are minimized
(4)(A)				<b>SPECIALTY PLANTS</b> Site production shall not exceed 30 cubic yards per hour
(4)(B)				The cement/flyash weigh hopper is vented to a fabric or cartridge filter system
(4)(C)(i)				The cement/flyash weigh hopper is vented inside the batch mixer
(4)(C)(ii)				Dust emissions at the mixer feed are controlled by a spray device which eliminates visible emissions
(4)(C)(iii)				Dust emissions at the mixer feed are controlled by a pickup device delivering air to a filter
(4)(C)(iv)				Dust emissions at the mixer feed are controlled by an enclosed batch mixer feed so that no visible emissions occur
(4)(D)				Dust emissions at the mixer feed are controlled by conducting the entire mixing operation inside the enclosed process building such that no visible emissions from the building occur during mixing activities
				Vehicles used for the operation of the CBP will not be operated within 25 feet of any property line, except for entrance and exit to the site
(5)				Roads and other traffic areas are bordered by dust-preventive fencing or other barrier along all traffic routes or work areas within the 25-foot specified buffer area and these borders will be constructed to a height of at least 12 feet ( <i>details on the attached plot plan</i> )
(5)(A)				<b>TEMPORARY PLANTS</b> This plant is considered temporary and will occupy the designated site for less than 180 consecutive days or will supply concrete for a single project, but not other unrelated projects
(5)(B)(i)				Site production shall not exceed 300 cubic yards per hour
				The facility will occupy the site for less than 180 consecutive days
				Site production shall not exceed 200 cubic yards per hour
				The facility will load rotary mix trucks through a discharge spout equipped with a water fog ring having low-velocity fog nozzles spaced to create a continuous fog curtain that minimizes dust emissions
(5)(B)(ii)				The water fog ring will meet the specified visible emissions performance standards
				The facility will use a suction shroud and fabric filter/cartridge filter system
				The suction shroud or other pickup device shall be installed at the batch drop point/mixer feed
(5)(C)(i)				The suction shroud shall be vented to a fabric or cartridge filter system with a minimum of 4,000 acfm
(5)(C)(ii)				The shroud baghouse exhaust or truck mix point is located at least <u>100 feet</u> from any property line*
(5)(C)(iii)(a)				The facility is equipped with a water fog ring and the mix truck load point is a minimum of <u>300 feet</u> from the nearest off-property non-industrial receptor
(5)(C)(iii)(b)				The CBP production rate is equal to or less than 200 cyh <b>AND</b> all stationary equipment, stockpiles, or traffic areas used for the operation of the CBP (except for incidental traffic and the entrance and exit to the site) is not located or operated, respectively, within <u>25 feet</u> from any property line*
				The CBP production rate is greater than 200 cyh and equal to or less than 300 cyh, <b>AND</b> all stationary equipment, stockpiles, and traffic areas used for the operation of the CBP (except for incidental traffic and the entrance and exit to the site) is not located or operated, respectively, within <u>50 feet</u> from any property line*

Condition Number	YES	NO	N/A	Description
(5)(C)(iv)(a)				Roads and other traffic areas are bordered by dust preventive fencing or other barrier along all traffic routes or work areas within the 25-foot specified buffer area and these borders will be constructed to a height of at least 12 feet <i>(details on the attached plot plan)</i>
(5)(C)(iv)(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 <i>(details on the attached plot plan)</i>
(6)				<b>PERMANENT PLANTS</b>
(6)(A)				Site production shall not exceed 300 cubic yards per hour
(6)(B)				The suction shroud or other pickup device shall be installed at the batch drop point/mixer feed
				The suction shroud or device shall be vented to a fabric or cartridge filter system with a minimum of 4,000 acfm
(6)(C)				All entry and exit roads and main traffic routes associated with the operation of the CBP (including batch truck and material delivery truck roads) shall be paved with a cohesive hard surface that can be maintained intact and shall be cleaned
				All batch trucks and material delivery trucks shall remain on paved surface when entering, conducting primary function, and leaving the property
				Other traffic areas comply with the control requirements of paragraph (3)(E)
(6)(D)(i)				The suction shroud baghouse exhaust or truck mix point is located at least <u>100 feet</u> from any property line
(6)(D)(ii)(a)				The CBP production rate is equal to or less than 200 cyh <b>AND</b> all stationary equipment, stockpiles, or traffic areas used for the operation of the CBP (except for incidental traffic and the entrance and exit to the site) is not located or operated, respectively, within <u>25 feet</u> from any property line
(6)(D)(ii)(b)				The CBP production rate is greater than 200 cyh and equal to or less than 300 cyh, <b>AND</b> all stationary equipment, stockpiles, and traffic areas used for the operation of the CBP (except for incidental traffic and the entrance and exit to the site) is not located or operated, respectively, within <u>50 feet</u> from any property line
(6)(D)(iii)(a)				Roads and other traffic areas are bordered by dust-preventive fencing or other barrier along all traffic routes or work areas within the specified buffer area and these borders will be constructed to a height of at least 12 feet <i>(details on the attached plot plan)</i>
(6)(d)(iii)(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 <i>(details on the attached plot plan)</i>

\* For CBPs which supply concrete for a single public works project, the "property line" measurements for purposes of compliance with this standard permit and 30 TAC § 111.155 shall be made to the outer boundaries of the designated public property, roadway project and associated rights-of-way.