



Code of Practice for Concrete Producing Plants

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CODE OF PRACTICE FOR CONCRETE PRODUCING PLANTS

ALBERTA ENVIRONMENTAL PROTECTION

TABLE OF CONTENTS

1	Preface
2	Introduction
3	Definitions
4	Registration
5	Person Responsible's Duty
6	Pollution Control Technology Requirements
7	Operation Requirements
8	Record Keeping
9	Reporting
10	Code Amendment
11	Effective Date
	Appendix "A" - Environmental log book format
	Appendix "B" - Information form
	Registration Form

CODE OF PRACTICE FOR CONCRETE PRODUCING PLANTS

ALBERTA ENVIRONMENTAL PROTECTION

Preface

1(1) The Code of Practice for Concrete Producing Plants is incorporated by the *Substance Release Regulation* (A.R. 124/93), under the authority of section 36 of the *Environmental Protection and Enhancement Act*. Persons responsible for plants affected by this Code must meet all its requirements to ensure that their activities are in compliance with Alberta's environmental laws. In addition to the requirements of this Code of Practice, persons responsible must comply with all requirements of the *Environmental Protection and Enhancement Act*, its associated regulations, and all other applicable laws.

(2) Persons responsible for plants affected by this Code must register with Alberta Environmental Protection prior to commencing operation of a concrete producing plant. Section 4 of this Code deals with registration in greater detail.

Introduction

2(1) This Code of Practice outlines the minimum operating requirements for concrete producing plants as defined below. These requirements must be complied with by persons responsible for concrete producing plants within the Province of Alberta. As well, persons responsible should consult with persons or parties that may be affected by the plant's operations.

(2) Questions or concerns regarding the application or contents of this Code of Practice can be made to:

Alberta Environmental Protection
Northeast Boreal & Parkland Regions
Regional Director
5th Floor, 9820 - 106 Street
Edmonton, AB T5K 2J6
Phone: (403)427-5836
Fax:(403)422-5120

or:

Alberta Environmental Protection
Northwest Boreal & Northern East Slopes Regions
Regional Director
203, 111 - 54 Street
Edson, AB T7E 1T2
Phone: (403)723-8395
Fax:(403)723-8542

or:

Alberta Environmental Protection
Southern East Slopes & Prairie Regions
Regional Director
201 Deerfoot Square
2938 - 11 Street N.E.
Calgary, AB T2E 7L7
Phone: (403)297-7605
Fax:(403)297-5944

Definitions

3(1) In this Code of Practice,

- (a) "baghouse" means a device that removes particulates from air by passing the air through a fabric bag or paper cartridge filter;
- (b) "concrete producing plant" means a stationary plant that manufactures concrete and has a designed production rate of at least 120 tonnes of concrete per hour or 50 cubic metres of concrete per hour;
- (c) "environmental log" means the environmental log format set out in Appendix "A" to this Code;
- (d) "fugitive dust emissions" means dust emissions to the environment originating from a plant source other than a vent, flue, stack, or break or rupture in process equipment;
- (e) "industrial runoff" means surface water resulting from precipitation that falls on and traverses a plant excluding any undeveloped areas.

(2) Terms that are defined in section 1 of the *Environmental Protection and Enhancement Act* and in the *Substance Release Regulation* (A.R. 124/93) have the same meaning when they are used in this Code of Practice, unless otherwise defined or modified within this Code of Practice.

Registration

4 In addition to any information required by the Director under the *Approvals and Registration Procedure Regulation* (A.R. 113/93), the person responsible shall complete the registration form attached to this Code of Practice and forward it to the Director.

Person Responsible's Duty

5 The person responsible shall comply with all requirements of this Code of Practice.

Pollution Control Technology Requirements

- 6(1)** A concrete producing plant shall be equipped with pollution control technology that meets the requirements of this Code.
- (2)** If a person responsible proposes at any time to make significant modifications to the pollution control technology or the plant throughput of a concrete producing plant, the person responsible shall provide the Director with additional information about these proposed modifications by completing and submitting the form attached as Appendix "B" to this Code of Practice.
- (3)** A concrete producing plant shall use pollution control technology and operating practices that meet the following environmental requirements.
- (a)** The opacity from all air emission sources at the concrete producing plant shall not exceed 40 percent, averaged over a period of 6 consecutive minutes.
 - (b)** The concentration of particulates in the effluent stream from the concrete producing plant's cement and flyash silos to the ambient air shall not exceed 0.20 grams per kilogram of effluent.
 - (c)** Fugitive dust emissions from the concrete producing plant shall not cause an adverse effect.
 - (d)** Industrial run-off from the concrete producing plant and washings from concrete truck operations shall be controlled and disposed of in a manner to prevent adverse effects.

Operation Requirements

- 7(1)** The person responsible shall control fugitive dust emissions generated from the concrete producing plant operations. The person responsible shall control excessive dust generated from traffic in the vicinity of the silos and load out areas by wetting down the area, using dust suppressing agents, collecting and removing accumulated dust, or any combination of these.
- (2)** The person responsible shall collect, store, transport and dispose of baghouse dust in tight containers to minimize its release in the ambient air.
- (3)** The person responsible shall collect and take all used lubrication oil generated at the concrete producing plant to an oil recycling facility approved by Alberta Environmental Protection.
- (4)** No person shall burn or bury waste at a concrete producing plant.
- (5)** The person responsible shall carry out the following inspections at the concrete producing plant.
- (a)** The person responsible shall check the integrity of the baghouse on a

weekly basis and record the findings in the environmental log. This inspection shall be a visual check of the baghouse for damage or improper connections. The outlet (clean) side of the baghouse shall be inspected for any evidence of dust that may be passing.

- (b) The person responsible shall conduct an inspection of the baghouse and associated equipment each year to ensure they are in proper operating condition. This shall include an examination of all bags or filters to ensure they are in good condition, an examination of the seals and connections on the baghouse and the condition of all vent lines and ducts. The person responsible shall record the results of this inspection in the environmental log.

Record Keeping

8(1) The person responsible shall maintain a copy of the registration at the concrete producing plant at all times. This document shall be made available at any time for inspection by Alberta Environmental Protection.

(2) The person responsible shall keep an environmental log of all actions taken to comply with this Code of Practice. The form of the environmental log is included in Appendix "A" of this Code and shall include the following information:

- (a) The date of the annual baghouse inspection and name of the person who conducted the inspection shall be recorded in the environmental log. A summary of the condition of the baghouse at the annual inspection and the corrective actions taken shall also be recorded.
- (b) The date of the weekly baghouse inspection, name of the person who conducted the inspection and condition of the baghouse shall be recorded in the environmental log.
- (c) All problems occurring at the concrete producing plant, and the corrective or maintenance action taken shall be recorded in the environmental log.

(3) The person responsible shall complete the environmental log each week and shall make it available at the concrete producing plant for inspection by Alberta Environmental Protection upon request. Each completed environmental log shall be maintained at the concrete producing plant by the person responsible for a minimum of 5 years from the completion of the operating year covered by the environmental log.

Reporting

9 The person responsible shall immediately report any contravention of this Code of Practice by telephone to the Director of Pollution Control Division at (403) 422-4505. The Director of Pollution Control Division may require the person responsible to provide a further written report of any contravention.

Code Amendment

10 This Code of Practice will be reviewed every 10 years beginning in 2006. Alberta Environmental Protection will accept and compile written comments on the contents of this Code at any time, and will review all comments received at the next 10 year review. The Director may institute a review and amendment of this Code of Practice at any time. All proposed amendments to this Code of Practice will be reviewed by government, the industry, and the interested public. The Director shall have the final decision on amendments made to this Code of Practice. Amendments to this Code of Practice shall become effective when published by Alberta Environmental Protection.

Effective Date

11 This Code of Practice is effective September 30, 1996.

APPENDIX A

**ENVIRONMENTAL LOG
FOR
CONCRETE PRODUCING PLANTS**

COMPANY NAME: _____

REGISTRATION NO.: _____

YEAR: _____

CONCRETE PRODUCING PLANTS – ENVIRONMENTAL LOG

ANNUAL BAGHOUSE INSPECTION:

NAME OF PERSON DOING INSPECTION: _____

BAGHOUSE IDENTIFICATION (eg. Make, Model, Number)

NOTES ON THE CONDITION OF THE BAGHOUSE:

ACTIONS TAKEN AS A RESULT OF THE INSPECTION

Inspection Performed by: _____ Date Performed: _____

- NOTES:
- 1) One annual report page is required for every baghouse at the plant unless the baghouse is not used during the entire year. An explanation as to why the baghouse was not required should be provided if the annual inspection is not done (eg. the portion of the plant served by that baghouse was not in operation).
 - 2) Normally three weekly report pages are required for each baghouse at the plant per year (one line per week). If the baghouse is not used during an entire week and the weekly check is not done, an explanation as to why the baghouse was not used should be put in the appropriate line.

ENVIRONMENTAL MAINTENANCE LOG

BAGHOUSE IDENTIFICATION _____

DATE	PROBLEM(S) NOTED AND CORRECTIVE ACTIONS TAKEN
1.	
2.	
3.	
4.	
5.	
6.	
7.	

APPENDIX B



INFORMATION FORM FOR ASPHALT PAVING PLANTS,
FOUNDRIES AND READY-MIX CONCRETE PLANTS

REGISTRATION NO.:

1. ADMINISTRATION

Company Name (legal incorporated Name):

Operating Name (if different than above):

Mailing Address:

Contact Person:

Phone No.:

2. MODIFICATION DESCRIPTION

3. OPERATIONS

OLD EQUIPMENT	NEW EQUIPMENT

4. SIGNATORY REQUIREMENTS

SIGNATURE

DATE

NAME AND TITLE OF SIGNATORY



REGISTRATION FORM FOR ASPHALT PAVING PLANTS
FOUNDRIES AND READY-MIX CONCRETE PLANTS

1. ADMINISTRATION

A. GENERAL			
Company Name (legal incorporated Name):			
Operating Name (if different than above):			
Mailing Address			
Contact Person:		Phone No.:	
Location	Legal Land Description:		
B. ASPHALT PLANTS ONLY			
Portable <input type="checkbox"/>	Stationary <input type="checkbox"/>	Hot Mix <input type="checkbox"/>	Cold Mix <input type="checkbox"/>
Max. Production Capacity (t/hr)		Fuel Type	

2. APPROVALS

(a) Has the plant ever received an environmental approval? Yes <input type="checkbox"/> If Yes , the approval number: _____ and go to Section 4. No <input type="checkbox"/> If No , provide information in Section 3.
b) Have there been any equipment changes since the issuance of the approval or registration that affect substance release to the environment? Yes <input type="checkbox"/> If Yes , provide information requested in Section 3. No <input type="checkbox"/> If No , go to Section 4.

3. OPERATIONS

AIR POLLUTION CONTROL EQUIPMENT	MAKE AND MODEL (DESCRIBE)
Baghouse	
Baghouse	
Baghouse	
Baghouse	
Baghouse	
Scrubbers	
Cyclones	

For Plants with Scrubbers:

Water Pump Flow Rate:	Scrubber Water Recycled:
	Discharged:

4. SIGNATORY REQUIREMENTS

I, acknowledge that I have reviewed a copy of the Code of Practice for (check one):

Asphalt Paving Plants _____

Concrete Producing Plants _____

Foundries _____

and that I am bound by the provisions of this Code of Practice, and any subsequent amendments to it.

SIGNATURE

DATE

NAME AND TITLE OF SIGNATORY

For Office Use Only:

Date Received:

Registered By:

Director's Signature: _____ Title: _____ Date: _____

Registration Number: _____