1	Pollution Control Agency RECEIVED
2 3	Adopted Permanent Rules Relating to Concrete Manufacturing Plant Standards of Performance  ADMINISTRATIVE HEARINGS
4	7011.0850 DEFINITIONS.
5	Subpart 1. Scope. The definitions in this part apply to the terms used in parts
6	7011.0850 to 7011.0890. The definitions in parts 7005.0100, 7007.0100, and 7011.0060
7	apply to the terms used in parts 7011.0850 to 7011.0890, unless the terms are otherwise
8	defined in this part.
9	Subp. 2. <b>Aggregate.</b> "Aggregate" means any combination of sand, gravel, and crushed
10	stone or other material serving a similar purpose in their natural or processed state.
11	Subp. 3. Cementitious material. "Cementitious material" means a powdered
12	substance which consists of any combination of the following:
13	A. material manufactured from calcined carbonate rock (burned lime) and clay;
14	B. fly ash generated from coal burning that meets the requirements outlined in
15	ASTM C 618-96, as found in the Annual Book of American Society for Testing and
16	Materials Standards (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA
17	19428-2959, volume 4.02 (1996). This document is incorporated by reference and is
18	subject to frequent change. It is available through the Minitex interlibrary loan system;
19	C. pulverized blast furnace slag; or
20	D. any other similar fine substance that, when mixed with water, forms a cohesive,
21	adhesive material that will harden into a rigid substance.
22	Subp. 4. Concrete. "Concrete" means a material consisting of a coarse and fine
23	aggregate bound by a paste of cementitious material and water, with admixtures added
24	to achieve various properties, which then sets into a hard and rigid substance.
25	Subp. 5. Concrete manufacturing plant. "Concrete manufacturing plant" means a
26	facility that manufactures concrete, both hardened and unhardened, for sale.

7011.0854

1	Subp. 6. Fabric filter. "Fabric filter" means a control device in which the incoming gas
2	stream passes through a porous filter forming a dust cake.
3	7011.0852 STANDARDS OF PERFORMANCE FOR CONCRETE
4	MANUFACTURING PLANTS.
5	No owner or operator of a concrete manufacturing plant shall cause to be discharged
6	into the atmosphere from the concrete manufacturing plant any emissions which:
7	A. contain particulate matter in excess of the limits allowed by parts 7011.0700 to
8	7011.0735; or
9	B. exhibit greater than 20 percent opacity.
10	7011.0854 CONCRETE MANUFACTURING PLANT CONTROL EQUIPMENT
11	REQUIREMENTS.
12	Subpart 1. Operation of concrete manufacturing plant control equipment. Unless
13	otherwise allowed in a state or part 70 permit, emissions during cementitious material
14	receiving from cement silos and other cementitious material storage devices shall pass
15	through a fabric filter. For concrete manufacturing plants in operation on the effective
16	date of this part, the owner or operator must install control equipment no later than 12
17	months after the effective date of this part. For concrete manufacturing plants not in
18	operation on the effective date of this part, the control equipment must be installed prior
19	to operation of any concrete manufacturing plant.
20	Subp. 2. Operation and maintenance of fabric filter control equipment. The owner
21	or operator of a concrete manufacturing plant shall perform the following on each piece
22	of control equipment required in subpart 1:
23	A. properly operate and maintain the control equipment to function as it was
24	designed. Proper operation and maintenance includes effective performance, adequate
25	funding, and adequate operator staffing and training;
26	B. thoroughly conduct an internal and external inspection of control equipment at

least annually, which often requires shutting down temporarily, and maintain a record of the activities conducted in the inspection including the activities completed, the date the activity was completed, and any corrective action taken; and

C. maintain a record of parts replaced, repaired, or modified.

Subp. 3. Monitoring of fabric filter control equipment. During cementitious material receiving, the owner or operator of a concrete manufacturing plant, or a designee, shall observe the outlet of each piece of control equipment required in subpart 1 for any visible emissions once each day cementitious material is received, and record the date and time period during which the observation was made and whether or not any visible emissions were observed. If visible emissions are observed, the owner or operator, or a designee, shall take all practical steps to modify operations to reduce the emissions and shall take corrective action to eliminate visible emissions prior to the following business day. The commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants.

Subp. 4. **Record retention.** The owner or operator shall maintain the records required by this part for a minimum of five years from the date the record was made. The owner or operator shall maintain records for the current calendar year of operation at the concrete manufacturing plant. For all years prior to the current calendar year, the owner or operator shall maintain records at either the concrete manufacturing plant or at an office of the owner or operator of the concrete manufacturing plant.

## 7011.0857 PREVENTING PARTICULATE MATTER FROM BECOMING AIRBORNE.

No owner or operator of a concrete manufacturing plant shall cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne <u>from a concrete</u> manufacturing plant.

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No owner or operator of a concrete manufacturing plant shall cause or permit a building or its appurtenances, a road, a driveway, or an open area to be constructed, used, repaired, or demolished without applying all such reasonable measures as may be required to prevent particulate matter from becoming airborne. The owner or operator of a concrete manufacturing plant shall take reasonable precautions to prevent the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate. The commissioner may require such reasonable measures as may be necessary to prevent particulate matter from becoming airborne including, but not limited to, application of water; application of commercially available dust suppressants; paving; frequent cleaning and sweeping of roads, driveways, and parking lots; use of curtains or socks for truck loading operations; use of water sprays during truck loading operations; use of water or commercially available dust suppressants on stockpiles or aggregate transfer points; and the planting and maintenance of vegetative ground cover.

## 7011.0858 NOISE.

The owner or operator of a concrete manufacturing plant shall comply with the noise pollution control rules in chapter 7030.

## 7011.0859 SHUTDOWN AND BREAKDOWN PROCEDURES.

In the event of a shutdown or breakdown of process or control equipment that causes any increase in emissions of any regulated air pollutant, the owner or operator of a stationary source shall comply with the notification, operation changes, and all other requirements in part 7019.1000.

## 7011.0860 NO PERMIT REQUIRED.

Subpart 1. Criteria. Any owner or operator of a concrete manufacturing plant otherwise required to obtain a permit under part 7007.0200 or 7007.0250 may elect not to obtain a permit under part 7007.0200 or 7007.0250 provided the conditions in items A to D are met.

7011.0860

A. Production shall be limited to less than 300,000 tons of unhardened concrete in
any calendar year for owners or operators that elect not to receive emissions reduction
credit for road dust control. Production shall be limited to less than 360,000 tons of
unhardened concrete in any calendar year for owners or operators that elect to receive
credit for road dust control on unpaved roads by:
(1) recording the date and time of the road dust control action and the initials of
the person making the record;

- (2) recording the amount of water or dust suppressant applied; and
- (3) if a commercially available dust suppressant is used, applying it in accordance with the manufacturer's guidelines.
- B. The concrete manufacturing plant shall contain only the following emission units and activities:
- (1) storage piles, aggregate transfer, cementitious material transfer; weigh hopper loading, mixers, mixer loading; truck loading; block forming equipment; mobile vehicle sources such as trucks, front end loaders, and forklifts; and aggregate heaters used solely to improve the flowability of aggregate used in manufacturing concrete burning only natural gas, propane, and/or No. 1 or No. 2 fuel oil;
- (2) <u>individual</u> indirect heating equipment, as defined in part 7011.0500, subpart 9, with a rated heat input capacity less than 10,000,000 Btu per hour burning only natural gas, propane, and/or No. 1 or No. 2 fuel oil;
- (3) nonmobile internal combustion engines, such as emergency generators, burning less than 37,500 gallons per calendar year of gasoline, No. 1 fuel oil, or No. 2 fuel oil combined; or
  - (4) miscellaneous:
    - (a) total usage or purchase of less than 500 gallons of VOC-containing

material or 200 gallons of VOC, including hazardous air pollutant-containing VOC, combined in any calendar year from sources such as parts washers, form release agents, painting, and sealers. Under this unit, if the owner of or operator ships VOC off site for recycling, the amount recycled may be subtracted from the amount of VOC purchased or used. "Recycling" means the reclamation or reuse, as defined in part 7045.0020, of a VOC. If the owner or operator ships VOC off site for recycling, the owner or operator shall keep records of the amount of material shipped off site for recycling and the calculations done to determine the amount to subtract. Records may be material safety data sheets, invoices, shipping papers, or hazardous waste manifests; or

- (b) any of the insignificant activities listed in part 7007.1300, subpart 2 or 3.
- C. The concrete manufacturing plant may not be located in areas designated as nonattainment for  $PM_{10}$ .
- D. Crushing operations may be located at the concrete manufacturing plant site and shall not be considered part of the concrete manufacturing plant unless more than 50 percent of the material processed by the crusher or crushers is used by the concrete manufacturing plant in the manufacture of concrete. The owner or operator of the crusher and associated operations shall obtain an air emissions permit for the crusher or crushers and associated operations if they are described under part 7007.0200 or 7007.0250.
- Subp. 2. **Recordkeeping.** The owner or operator of a concrete manufacturing plant shall comply with the recordkeeping listed in items A to D. The owner or operator shall maintain the records required by this subpart at the concrete manufacturing plant for a minimum of five years from the date the record was made. The owner or operator shall maintain records for the current calendar year of operation at the concrete manufacturing plant. For all years prior to the current calendar year, the owner or operator shall maintain records at either the concrete manufacturing plant or at an office of the owner or operator of the concrete manufacturing plant.

7011.0860

1	A. The owner or operator shall maintain records of the calendar year production of
2	unhardened concrete in tons to demonstrate compliance with subpart 1, item A.
3	B. The owner or operator shall maintain records of the gallons of VOC-containing
4	materials, including hazardous air pollutant-containing VOC, used or purchased in each
5	calendar year to demonstrate compliance with subpart 1, item B, subitem (4), unit (a), or
6	records to demonstrate compliance with part 7007.1300, subpart 3, item H, subitem (1).
7	C. The owner or operator shall maintain records of the types of fuel combusted in
8	nonmobile emissions units in each calendar year to demonstrate compliance with
9	subpart 1, item B, subitems (1) to (3), and maintain records of the amounts of fuel
10	combusted in nonmobile internal combustion engines to demonstrate compliance with
11	subpart 1, item B, subitem (3).
12	D. If the owner or operator elects to receive emissions reduction credit for road
13	dust control, the owner or operator shall maintain records to demonstrate compliance
14	with subpart 1, item A, subitems (1) and (2).
15	Subp. 3. Grounds for ineligibility. The following constitute grounds for the agency
16	to require a company to apply for a permit under part 7007.0200 or 7007.0250:
17	A. the owner or operator fails to meet or comply with any of the conditions or
18	requirements in subpart 1 or 2;
19	B. there exists at the concrete manufacturing plant unresolved noncompliance with
20	applicable state or federal pollution control statutes or rules administered by the agency
21	or conditions of a previous or existing air emission permit, and the owner or operator
22	will not undertake a schedule of compliance to resolve the noncompliance;
23	C. an owner or operator has knowingly submitted false or misleading information
24	to the agency;
25	D. the unpermitted facility or activity would endanger human health or the
26	environment;

1	E. if air quality specific conditions or limits not contained in parts 7011.0850 to
2	7011.0860 were assumed:

- (1) as a mitigation measure in an environmental impact statement; or
- (2) in obtaining a negative declaration in an environmental assessment worksheet; or

F. if the concrete manufacturing plant is subject to a new source performance standard other then Code of Federal Regulations, title 40, part 60, subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced after July 23, 1984, incorporated by reference in part 7011.1520, item C, if all storage vessels subject to this standard at the stationary source each have a capacity greater than or equal to 40 cubic meters and less than 75 cubic meters.

Subp. 4. **Permit requirement procedures.** If the agency requires a concrete manufacturing plant to apply for a permit under subpart 3, the agency shall give notice to the owner or operator of its intention to require a permit application. This notice shall require the owner or operator to submit a permit application for the concrete manufacturing plant within three months of the receipt of the notice.