

*The
Potash Refining Air
Emissions
Regulations*

being

Chapter A-17 Reg 1
(effective January 27, 1983).

NOTE:

This consolidation is not official. Amendments have been incorporated for convenience of reference and the original statutes and regulations should be consulted for all purposes of interpretation and application of the law. In order to preserve the integrity of the original statutes and regulations, errors that may have appeared are reproduced in this consolidation.

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CHAPTER A-17 REG 1
The Air Pollution Control Act

Title

- 1 These regulations may be cited as *The Potash Refining Air Emissions Regulations*.

Interpretation

- 2 In these regulations:

- (a) “**department**” means the Department of the Environment;
- (b) “**dry standard cubic metre**” means the quantity of gas occupying a volume of one cubic metre at 25° Celsius and at a pressure of 760 millimetres of mercury with a corrected water content of 0%;
- (c) “**existing plant**” means a potash refinery brought into operation before the date that these regulations come into force;
- (d) “**new plant**” means a potash refinery brought into operation after the date that these regulations come into force or an existing plant in which the production capacity is increased by more than 30% after the date that these regulations come into force;
- (e) “**particulate matter**” means matter, other than water, in the form of small liquid or solid particles;
- (f) “**product drying process**” means the use of drying equipment to remove moisture from potash;
- (g) “**potash**” includes the material mined as potassium chloride and generally referred to in terms of its equivalent of potassium oxide;
- (h) “**potash refinery**” means all or any part of a plant in which potash is separated and refined from potash-bearing ores;
- (i) “**prescribed testing method**” means the method described in the department’s Air Pollution Control Branch Report APC-31 entitled “Standard Reference Methods for Source Testing: Measurement of Emissions of Particulates from Stationary Sources”, as amended from time to time, or any other method prescribed in writing by the minister.

4 Feb 83 cA-17 Reg 1 s2.

Emission Standards

- 3(1) No person shall cause or allow the discharge of particulate matter into the ambient air from the product drying process of a new plant in a concentration exceeding 0.57 grams per dry standard cubic metre.

(2) After January 1, 1985, no person shall cause or allow the discharge of particulate matter into the ambient air from the product drying process of an existing plant in a concentration exceeding 0.57 grams per dry standard cubic metre.

(3) The concentration of particulate matter discharged into the ambient air from the sources mentioned in subsections (1) and (2) is to be determined in accordance with the prescribed testing method or any other appropriate testing method, but, where the result of the prescribed testing method differs from the result of another testing method, the former shall be considered correct.

(4) Where air or any other gas is added as a diluent to the particulate matter discharged into the ambient air from the product drying process, the particulate matter concentration is deemed to have exceeded 0.57 grams per dry standard cubic metre if the concentration would have exceeded that level but for the presence of the diluent.

4 Feb 83 cA-17 Reg 1 s3.

Emission test

4 Every owner of a potash refinery shall, once in each year, conduct an emission test in relation to the potash refinery:

- (a) in accordance with the prescribed testing method;
- (b) for the purpose of determining the concentration and mass of particulate matter discharged into the ambient air from the product drying process;
- (c) on every stack that discharges particulate matter into the ambient air from the product drying process;
- (d) under continuous normal operating conditions; and
- (e) with a minimum of three sampling runs.

4 Feb 83 cA-17 Reg 1 s4.

Test report

5 Every owner of a potash refinery shall, once in each year, submit to the minister a written report on the emission test required for that year pursuant to section 4 containing:

- (a) the address and location of the potash refinery;
- (b) the unit or process tested;
- (c) the date of the test;
- (d) the rate of production of potash at the time of the test, expressed in tonnes per hour;
- (e) the flow-rate of gas emitted into the ambient air from the product drying process at the time of the test, expressed in dry standard cubic metres per minute;

- (f) the types and quantities of any substances that have been added as diluents to the gas emitted to the ambient air from the product drying process;
- (g) the concentration of particulate matter discharged into the ambient air from the product drying process, expressed in grams per dry standard cubic metre;
- (h) the mass emission rate of particulate matter discharged into the ambient air from the product drying process, expressed in kilograms per hour;
- (i) the detailed data and calculations used to compile the report;
- (j) the names and signatures of the persons in charge of the test and
- (k) any other information regarding test procedures and operating conditions during the test that may be prescribed in writing by the minister.

4 Feb 83 cA-17 Reg 1 s5.

Additional reporting

6 In addition to the report mentioned in section 5, where the results of an emission test reveal that the emission standard specified in section 3 for the potash refinery tested is exceeded, the owner of the potash refinery shall submit to the minister, within 60 days after the completion of the emission test, an additional written report containing:

- (a) the steps and procedures planned or being taken to reduce the emissions to conform to the standard specified in section 3; and
- (b) a summary of the immediate and long-term environmental effects of exceeding the standard specified in section 3.

4 Feb 83 cA-17 Reg 1 s6.

Uncontrolled or accidental discharge

7 Where there is an uncontrolled or accidental discharge of particulate matter from the product drying process that exceeds the emission standard specified in section 3, the owner of the potash refinery shall take immediate action to eliminate or reduce the discharge and shall submit to the minister, within 15 days after the date of the discharge, a written report containing:

- (a) the date and time of the discharge;
- (b) the duration of the discharge;
- (c) the estimated concentration of particulate matter discharged into the ambient air, expressed in grams per dry standard cubic metre;
- (d) the estimated total weight of particulates discharged;
- (e) the basis upon which the estimates in clauses (c) and (d) were made;
- (f) the circumstances leading to the discharge;
- (g) the steps and procedures taken to control the discharge;

- (h) the steps and procedures taken to prevent a similar discharge in the future; and
- (i) a summary of the immediate and long-term environmental effects of the discharge.

4 Feb 83 cA-17 Reg 1 s7.