

MAINE STATE LEGISLATURE

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1 FIRST REGULAR SESSION
2

3 ONE HUNDRED AND ELEVENTH LEGISLATURE
4

5 Legislative Document

No. 1232

6
7 H.P. 951

House of Representatives, March 17, 1983

8 Submitted by the Department of Environmental Protection pursuant to
9 Joint Rule 24.

10 Referred to the Committee on Energy and Natural Resources. Sent up for
concurrence and ordered printed.

EDWIN H. PERT, Clerk

Presented by Representative Mitchell of Freeport.

11 Cosponsors: Senator Kany of Kennebec and Representative Jacques of
Waterville.

12 STATE OF MAINE
13

14 IN THE YEAR OF OUR LORD
15 NINETEEN HUNDRED AND EIGHTY-THREE
16

17 AN ACT to Establish and Amend the Air
18 Quality Standards and Establish a Chromium
19 Emission Standard.
20

21 Be it enacted by the People of the State of Maine as
22 follows:

23 Sec. 1. 38 MRSA §584-A, sub-§8 is enacted to
24 read:

25 8. Chromium.

26 A. Until the time that an analytical procedure
27 for measuring hexavalent chromium in the ambient
28 air is approved:

29 (1) The maximum 24-hour total chromium con-
30 centration at any location shall not exceed
31 0.3 micrograms per cubic meter; and

1 (2) The annual geometric mean of the total
2 chromium concentrations at any location
3 shall not exceed 0.05 micrograms per cubic
4 meter.

5 B. Subsequent to the establishment of an accept-
6 able analytical procedure for measuring
7 hexavalent chromium in the ambient air:

8 (1) The maximum 24-hour hexavalent chromium
9 at any location shall not exceed the Minimum
10 Detection Limit of that procedure or a value
11 of 1.0 nanogram per cubic meter, whichever
12 is greater.

13 Sec. 2. 38 MRSA §611 is enacted to read:

14 §611. Hexavalent chromium particulate emission stan-
15 dard

16 1. Scope. This regulation shall be effective in
17 all ambient air quality control regions in the State.

18 2. Definition. A potential source of hexavalent
19 chromium air emissions shall be defined as follows:
20 Any fuel burning equipment, incinerator or general
21 process source which handles material containing
22 total aggregate chromium concentration in excess of
23 0.05%, or 500 parts per million, by weight.

24 3. Emissions standards. The emission standards
25 for any potential source of hexavalent chromium air
26 emissions shall represent the lowest emission rate
27 for hexavalent chromium which is technologically
28 achievable. The emissions standards will be decided
29 on a case-by-case basis, with the following condi-
30 tions representing the minimum requirements:

31 A. Any potential source of hexavalent chromium
32 air emissions shall demonstrate compliance with
33 the ambient air quality standards;

34 B. If a source cannot demonstrate to the satis-
35 faction of the commissioner a technique for mea-
36 suring hexavalent chromium at the emission
37 source, its modeled air quality impact shall be
38 derived from its total chromium emissions and

1 shall not exceed a 24-hour ambient concentration
2 of 25 nanograms per cubic meter; and

3 C. The modeled impact derived from hexavalent
4 chromium emissions shall not exceed the limits
5 specified in section 584-A, subsection 8, para-
6 graph B, subparagraph (1).

7 4. Exemptions. Chromium emissions resulting
8 from metal plating operations, the preparation of
9 chrome tanning liquors or from processes, including
10 leather processing, in which chromium is present only
11 in the trivalent oxidation state shall not be subject
12 to these emission requirements.

13 STATEMENT OF FACT

14 This bill is intended to regulate the emissions
15 of hexavalent chromium, a human respiratory
16 carcinogen, through the establishment of ambient air
17 quality standards and emission standards for poten-
18 tial emitter of this pollutant.

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