



**DEPARTMENT OF HEALTH AND HUMAN SERVICES  
MAINE CENTER FOR DISEASE CONTROL AND PREVENTION  
DIVISION OF ENVIRONMENTAL HEALTH**

**RULES RELATING TO THE LICENSING  
OF SUPPLIERS OF COMPRESSED AIR USED  
IN SELF-CONTAINED BREATHING APPARATUS**

**10-144A CMR 225  
Health Inspection Program  
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**Non-Discrimination Notice**

In accordance with Title VI of the Civil Rights Act of 1964 (42 U.S.C. §1981, 2000d et seq.) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), the Age Discrimination Act of 1975, as amended (42 U.S.C. §6101 et seq.), Title II of the Americans with Disabilities Act of 1990 (42 U.S.C. §12131 et seq.), and Title IX of the Education Amendments of 1972, (34 C.F.R. Parts 100, 104, 106 and 110), the Maine Department of Human Services does not discriminate on the basis of sex, race, color, national origin, disability or age in admission or access to or treatment or employment in its programs and activities.

Kim Pierce, Civil Rights Compliance Coordinator, has been designated to coordinate our efforts to comply with the U.S. Department of Health and Human Services regulations (45 C.F.R. Parts 80, 84, and 91), the Department of Justice regulations (28 C.F.R. part 35), and the U.S. Department of Education regulations (34 C.F.R. Part 106) implementing these Federal laws. Inquiries concerning the application of these regulations and our grievance procedures for resolution of complaints alleging discrimination may be referred to Kim Pierce at 221 State Street, Augusta, ME 04333, telephone number: (207) 287-3488 (Voice) or (207) 287-4479 (TDD), or the Assistant Secretary of the Office of Civil Rights of the applicable department (e.g. the Department of Education), Washington, D.C.

Appropriation 010-10A-2450-012

## 1. DEFINITIONS

### A. BREATHING APPARATUS

"BREATHING APPARATUS" means any breathing device, either high or low pressure which is used to sustain human life under adverse conditions.

### B. DEPARTMENT

"DEPARTMENT" means the Department of Human Services.

### C. SUPPLIERS OF COMPRESSED AIR

"SUPPLIERS OF COMPRESSED AIR" means any organization, agency, individual, firm partnership or corporation that provides compressed air to be used in self-contained breathing apparatus.

## 2. AIR STANDARDS

COMPONENTS IN THE COMPRESSED AIR SHALL NOT EXCEED THE LIMITS SET FORTH IN THE FOLLOWING TABLE:

Oxygen	not less than 19%/vol
Carbon Monoxide (CO)	10 ppm
Carbon Dioxide (CO <sub>2</sub> )	500 ppm
Hydrocarbons (condensed)	5 mg/M <sup>3</sup>

Odor See note No. 1

Other Contaminants deleterious to health shall not be present.

%/vol	percent by volume
ppm	parts per million by volume
mg/M <sup>3</sup>	milligrams per cubic meter of air

Note No. 1 - Odor - Although air normally has a slight odor, the presence of a pronounced odor shall render the air unsatisfactory.

## 3. AIR PROCESSING EQUIPMENT

Air processing involves the compression purification and proper storage of the purified air.

### 1. COMPRESSOR

The air compressor shall be of a type, size and capacity in keeping with the intended usage; and shall incorporate the equipment and features necessary to assure efficient operation and to safeguard against malfunction or human error. The air compressor shall include:

(a) AN INLET FILTER: Positioned to exclude airborne particles, exhausts of automotive vehicles and undesirable odors or other contaminants.

(b) PRESSURE CONTROL DEVICE: To prevent the compressor from exceeding a pre-set pressure.

(c) TEMPERATURE CONTROL DEVICE: To prevent the compressor from over-heating , a temperature sensing probe shall be affixed at the hottest location in the compressor.

(d) RUNNING TIME RECORDER: To record the actual running hours of the compressor.

(e) INTER-COOLERS ON MULTISTAGE COMPRESSORS;  
To cool the compressed air between each compression stage.

## 2. AIR PURIFICATION

The air purification system shall consist of:

(a) AFTERCOOLER: To cool the compressed air to cause water and oil vapors to condense.

(b) CONDENSATE SEPARATOR; To remove condensed water and oil droplets.

(c) WATER AND OIL REMOVAL DEVICE: To remove remaining water and oil vapors.

(d) ODOR REMOVAL DEVICE: To remove undesirable odors.

## 4. AIR CYLINDERS

Air filling stations shall not fill self-contained underwater breathing apparatus that do not have U. S. Department of Transportation DOT (or Interstate Commerce Commission - ICC, IF MANUFACTURED PRIOR TO January 1, 1970), markings showing that the cylinder has been hydrostatically TESTED WITHIN FIVE YEARS OF THE DATE OF FILLING. Cascade system cylinders shall be hydrostatically tested at 5 year intervals.

## 5. PROTECTIVE BARRIERS

Protective barriers or isolated areas shall be provided to protect personnel against possible air cylinder failure during filling operations.

If space considerations absolutely prevent isolating the filling area, or if no protective barriers are used or such barriers are deemed to be inadequate by the Department, then a large plastic container filled with water shall be used to contain the air cylinders during the filling operation.

Under no circumstances, shall an air cylinder be filled in a metal water container.

## 6. LOG

A log shall be maintained documenting: (1) hours of compressor operation each day of use, (2) dates and types of filter changes, (3) Dates of over-haul, maintenance and oil changes, (4) results of compressed air analysis when performed. (5) Name of person(s) receiving the air.

This log shall be available for audit by a representative of the Department or other duly authorized agencies.

## 7. LICENSING

It is unlawful for any supplier of compressed air to fill or supply any breathing apparatus with life supporting gases in the State of Maine unless licensed to do so by the Department.

Fire departments are exempt from the licensing requirements as long as the use of the apparatus is restricted to departmental use in fighting fires.

The annual license fee shall be \$10.

All licenses issued shall expire on March 31st, of each year.

### PENALTY

Whoever violates any of the provisions of §1581 to §1586 of Title 22, Maine Revised Statutes, or any rules and regulations made thereunder, shall be punished by a fine of not less than \$100 nor more than \$500, or by imprisonment for not more than 6 months or by both.

## 9. POSTING

THESE RULES AND REGULATIONS SHALL BE POSTED CONSPICUOUSLY ON THE PREMISES.

## 10. VARIANCE

When compliance with the provisions of these regulations would involve hardship out of proportion to the increase in health protection secured thereby, the Department may, upon consideration permit modification of these regulations.

EFFECTIVE DATE; March 31, 1978