



DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
DIRECTOR'S OFFICE
OCCUPATIONAL HEALTH STANDARDS

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PERSONAL PROTECTIVE EQUIPMENT IN
RULE 3503 PULP, PAPER AND PAPERBOARD MILLS
RULE 3504 TEXTILE OPERATIONS
RULE 3505 SAWMILLS
RULE 3506 PULPWOOD LOGGING

TABLE OF CONTENTS:

Rule 3503 Personal Protective Equipment in Pulp, Paper and Paperboard Mills	1
Rule 3504 Personal Protective Equipment in Textile Operations	2
Rule 3505 Personal Protective Equipment in Sawmills	2
Rule 3506 Personal Protective Equipment in Pulpwood Logging.....	2

Rule 3503 Personal Protective Equipment in Pulp, Paper and Paperboard Mills

(1) General requirements

- (a) Application. This rule applies to those establishments covered by Rule 5001 and supplements the general requirements of rules 3501 and 3502.
- (b) Standards incorporated by reference. Standards covering issues of occupational safety and health which have general application without regard to any specific industry are incorporated by reference in subsections (2) through (3) of this rule and in paragraph (c) of this subsection and made applicable under this rule. Such standards shall be construed according to the rules set forth in Rule 1106(3). [1910.261(a)(2)]
- (c) General incorporation of standards. Establishments subject to this rule shall comply with the following standards of the American National Standards Institute: [1910.261(a)(3)]
 - (i) Identification of Gas-Mask Canisters, K13.1-1967. [1910.261(a)(3)(xvi)]
 - (ii) Safety Code for Ventilation and Operation of Open-Surface Tanks, Z9.1-1951. [1910.261(a)(3)(xix)]
 - (iii) Method of Measurement of Real-Ear Attenuation of Ear Protectors at Threshold, Z24.22-1957. [1910.261(a)(3)(xxii)]
 - (iv) Practices for Respiratory Protection, Z88.2-1969. [1910.261(a)(3)(xxvi)]

(2) Safe practices

- (a) Personal protective clothing and equipment. Foot protection, shin-guards, hard hats, noise attenuation devices, or other personal protective clothing and equipment shall be worn when the extent of the hazard is such as to warrant their use. Such equipment shall be worn whenever specifically required by other paragraphs of this rule and the MIOSHA Occupational Safety Standards for General Industry.

All equipment shall be maintained in accordance with applicable American National Standards. Respirators, goggles, and protective masks, rubber gloves, rubber boots, and other such equipment shall be cleaned and disinfected before being used by another employee. Eye, head, respiratory, and ear protection, where specified, shall conform to American National Standards Z24.22-1957, Z87.1-1968, Z88.2-1969, and Z89.1-1969.

[1910.261(b)(2)]

- (b) Vessel entering. See Part III of this Chapter, especially Rule 3303(3).

(3) Handling and storage of pulpwood and pulp chips. [1910.261(c)] Handling pulp chips from railway cars, trucks and trailers. Personal protective equipment for such uses as foot, head, and eye protection shall be provided, and employees shall wear the equipment when working in the woodyard. Ear protection shall be provided when the noise level may be harmful (see Rule 2401). [1910.261(c)(6)(ii) and 1910.261(c)(7)(ii)]

(4) Handling and storage of raw materials other than pulpwood or pulp chips. Whenever possible, all dust, fumes, and gases incident to handling materials shall be controlled at the source, in accordance with American National Standard Z9.2-1960. Where control at the source is not possible, respirators with goggles or protective masks shall be provided, and employees shall wear them when handling alum, clay, soda, ash, lime, bleach powder, sulfur, chlorine, and similar materials, and when opening rag bales. [1910.261(d)(1)(i)]

(5) Preparing pulpwood. Chipper spout. The feed system to the chipper spout shall be arranged in such a way that the operator does not stand in a direct line with the chipper spout. All chipper spouts shall be enclosed to a height of at least 42 inches from the floor or operator's platform. If practical, a mirror should be installed to enable the chipper feeder to see the chute.

When other protection is not sufficient, the operator shall wear a safety belt line. The safety belt line shall be fastened in such a manner as to make it impossible for the operator to fall into the throat of the chipper. Ear protection equipment shall be worn by the operator and others in the immediate area if there is any possibility that the noise level may be harmful (see Rule 2401). [1910.261(e)(18)]

(6) Chemical processes of making pulp.

- (a) Protection for employees (acid plants).
 - (i) Gas masks, fitted with canisters containing 2 adsorbents for the particular acids, gases, or mists involved, shall be provided for employees of the acid department. [1910.261(g)(2)(i)]
 - (ii) Supplied-air respirators shall be strategically located for emergency and rescue use. [1910.261(g)(2)(ii)]
- (b) Gas masks (digester building). Gas masks shall be available. These masks shall furnish adequate protection against sulfurous acid and chlorine gases, and shall be inspected and tested at frequent intervals, not to exceed 1 month, in accordance with American National Standards Z87.1-1968, and Z88.2-1969. [1910.261(g)(10)]

- (c) Miscellaneous. Insofar as the processes of the sulfate and soda operations are similar to those of the sulfite processes, the standard of paragraphs (a) and (b) of this subsection shall apply. [1910.261(g)(18)]

(7) Bleaching.

- (a) Bleach-mixing rooms.
 - (i) Gas masks shall be provided for emergency use, in accordance with American National Standards K13.1- 1967 and Z88.2-1969. [1910.261(h)(2)(iii)]
 - (ii) For emergency and rescue work, independent self-contained oxygen masks or supplied-air equipment shall be provided. (See American National Standards Z88.2- 1969.) [1910.261(h)(2)(iv)]
- (b) Liquid chlorine.
 - (i) Gas masks capable of absorbing chlorine shall be supplied, conveniently placed, and regularly inspected, and workers who may be exposed to chlorine gas shall be instructed in their use. [1910.261(h)(3)(ii)]
 - (ii) For emergency and rescue work, independent self-contained oxygen-type masks or supplied-air equipment shall be provided. [1910.261(h)(3)(iii)]

Rule 3504 Personal Protective Equipment in Textile Operations

(1) Application. This rule applies only to textile establishments and operations covered by Rule 5002 and supplements the general requirements of Rules 3501 and 3502.

(2) Personal protective equipment. Workers engaged in handling acids or caustics in bulk, repairing pipe lines containing acids or caustics, etc., shall be provided with protective occupational (safety) equipment to conform to the requirements of Rules 3302, 3501 and 3502. [1910.262(qq)(1)]

(3) Respirators, gas masks, and such appliances, for emergency use only, shall be of a type required by Rules 3302 and 3502. [1910.262(qq)(2)]

Rule 3505 Personal Protective Equipment in Sawmills

(1) Application. This rule applies to those sawmill operations subject to Rule 5005.

(2) The requirements for personal protective equipment specified in Rules 3501 and 3502 shall be complied with. [1910.265(g)]

Rule 3506 Personal Protective Equipment in Pulpwood Logging

(1) Applicability. This rule applies to all operations subject to Rule 5006 and supplements the general industry requirements for personal protective equipment set forth in Rules 3501 and 3502.

(2) Dust masks in accordance with American National Standard Practices for Respiratory Protection Z88.2-1969 shall be provided for use where conditions warrant. [1910.266(c)(1)(v)]

(3) Protection against the effects of noise exposure shall be provided when the sound levels exceed those shown in Table G-16 of Rule 2401 when measured on the A scale of a standard sound level meter at slow response. [1910.266(c)(1)(vi)]



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