INTRODUCTION

Purpose and Structure

The Legislature, by s. 35.93 and ch. 227, Stats., directed the publication of the rules of administrative agencies having rule-making authority in a loose-leaf, continual revision system known as the Wisconsin Administrative Code. The Code is kept current by means of new and replacement pages. The pages are issued monthly, together with notices of hearings, notices of proposed rules, emergency rules, instructions for insertion of new material, and other information relating to administrative rules. This service is called the Wisconsin Administrative Register and comes to the subscriber after the 10th and the 25th of each month. Code pages are issued to subscribers only with the end of the month Register. The editing and publishing of the Register and Code is done by the Revisor of Statutes Bureau, 2nd Floor, 119 Martin Luther King, Jr. Blvd., Madison, Wisconsin, 53703. (608-266-7275).

Availability

The complete code and the upkeep service are distributed to the county law libraries; to the libraries of the University of Wisconsin Law School and Marquette University Law School; to the State Historical Society; to the Legislative Reference Bureau and to the State Law Library, and to certain designated public libraries throughout the state.

The sale and distribution of the Register, Code and of its parts is handled by Department of Administration, Document Sales and Distribution, P.O. Box 7840, Madison, Wisconsin 53707. (608-266-3358)

Table of Contents

Each code with more than one chapter will have a table of chapters. After the title of each chapter will be the page numbers on which the chapter begins. Each chapter will have a table of sections. When a chapter has more than 10 sections and is over 10 pages in length the page number which that particular section begins on will be inserted after the title of the section.

History Notes

Each page of the code as it was originally filed and printed pursuant to the 1955 legislation, is dated "1-2-56". A rule which is revised or created subsequent to the original printing date is followed by a history note indicating the date and number of the Register in which it was published and the date on which the revision or creation of the rule became effective. The absence of a history note at the end of a section indicates that the rule has remained unchanged since the original printing in 1956. The date line at the bottom of the page indicates the month in which the page went pages. Some common abbreviations used in the history notes are: cr. = created, am. = amend, r. = repeal, recr. = recreate, renum. = renumber, eff. = effective and emerg. = emergency.

In some instances an entire chapter has been repealed and recreated or renumbered subsequent to the original printing date. When this occurs a history note has been placed at the beginning of the chapter after the table of sections to contain this information. A separate history note appears after each section indicating the date when the revision became effective.

Index

The index for the complete Wisconsin Administrative Code will be found in the last volume. It will be recompiled, reprinted and distributed at least 3 times a year. Some codes have a separate index prepared by the agency involved. See the Building and Heating Code (chs. ILHR 50-64) as an example.
Chapter ILHR 32

SAFETY AND HEALTH STANDARDS FOR PUBLIC EMPLOYEES

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Note: Chapters 1, 6, 11, 12, 35, 206, 220, 221, 225, 226, 1001 to 2000 and ILHR 32 as they existed on March 31, 1991 were repealed and a new Chapter ILHR 32 was created effective April 1, 1991.

Subchapter I — Scope, Application and Definitions
ILHR 32.001 Purpose. This chapter establishes minimum occupational safety and health standards for public employees.
History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.002 Scope. The provisions of this chapter apply to all places of employment and public buildings of a public employer.
History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.003 Application. (1) RETROACTIVITY. The provisions of this chapter shall apply to all places of employment and public buildings of a public employer whether existing prior to the effective date of this chapter or subsequently established or built, unless otherwise specified in this chapter.
(2) CONFLICTS. If requirements of the Statutes, this chapter or other Wisconsin Administrative Code chapters specify varying requirements, the most restrictive requirement shall govern.
History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.01 Definitions. In this chapter:
Register, March, 1991, No. 423
2 WISCONSIN ADMINISTRATIVE CODE

(1) "Agency", as defined in s. 101.055 (2) (a), Stats., means an office, department, independent agency, authority, institution, association, society or other body in state government created or authorized to be created by the constitution or any law, and includes the legislature and the courts.

(2) "Approved" means acceptable to the department.

(3) "Department" means the department of industry, labor and human relations unless otherwise specified.

(4) "Place of employment" means any place as defined in s. 101.01 (2) (f), Stats., and includes farms of a public employer where research or education takes place.

(5) "Public employe" or "employee", as defined in s. 101.055 (2) (b), Stats., means any employe of the state, of any state agency or of any political subdivision of the state.

(6) "Public employee representative" or "employee representative", as defined in s. 101.055 (2) (c), Stats., means an authorized collective bargaining agent, an employee who is a member of a workplace safety committee or any person chosen by one or more public employees to represent those employees.

(7) "Public employer" or "employer", as defined in s. 101.055 (2) (d), Stats., means the state, any state agency or any political subdivision of the state.

(8) "Secretary" means the secretary of the department of industry, labor and human relations or appointed representative, unless otherwise specified. For the purpose of this chapter, the term secretary shall be substituted for the following titles referenced in the adopted standards of s. ILHR 32.50:

(a) Secretary of labor;
(b) Assistant secretary of labor for occupational safety and health, U.S. department of labor;
(c) Director of the office of standards development, occupational safety and health administration, U.S. department of labor;
(d) Area director, occupational safety and health administration; and
(e) Director of the national institute for occupational safety and health, U.S. department of health and human services.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

Subchapter II — Administration and Enforcement

ILHR 32.05 Inspections. (1) RIGHT OF ENTRY TO INVESTIGATE OR INSPECT. The authorized representatives of the department, upon presentation of the appropriate credentials to an employer, may:

(a) Enter without delay and at reasonable times any building, place of employment or workplace of a public employer, or an environment where work is performed by an employe of an employer; and

ILL. 32.06 Posting department order. (1) Upon issuance of an order of noncompliance, the employer shall post a copy of the order at or near the site of the violation.

(2) An order issued shall be posted for a period of 3 days, or until the violation is abated, whichever is longer.

(3) The employer shall ensure that the order is not altered, defaced or covered by other materials.

(4) An order issued shall be posted regardless of whether there has been a petition for variance or hearing.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.07 Variances. Pursuant to s. 101.055 (4), Stats., the department shall consider and may grant a temporary variance, an experimental variance or a permanent variance in accordance with s. ILHR 3.04 for a safety and health issue affecting public employees.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.08 Notices. Every employer shall post a notice which summarizes the employe's protections and rights as granted under s. 101.055, Stats.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.09 Penalties. Penalties for violations of this chapter may be assessed in accordance with s. 101.02, Stats.

Note: Section 101.02 (12) (a), Stats., indicates penalties will be assessed against any employer, employee, owner or other person who fails or refuses to perform any duty lawfully.
enjoined, within the time prescribed by the department, for which no penalty has been specifically provided, or who fails, neglects or refuses to comply with any lawful order made by the department, or any judgment or decree made by any court in connection with ss. 101.01 to 101.25, Stats. For each such violation, failure or refusal, such employer, owner or other person must forfeit and pay into the state treasury a sum not less than $10 nor more than $100 for each violation.

Note 2: Section 101.02 (12), Stats., indicates that every day during which any person, persons, corporation or any officer, agent or employees thereof, fails to observe and comply with an order of the department will constitute a separate and distinct violation of such order.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

Subchapter III — General Requirements

ILHR 32.15 OSHA Safety and health standards. Except as provided in s. ILHR 32.16 and subch. IV, all places of employment and public buildings of an employer shall comply with the following federal occupational safety and health administration (OSHA) requirements:


(3) Occupational Safety and Health Standards for Construction Industry, 29 CFR Part 1926, July 1, 1989. These requirements shall apply whether or not construction activities are involved.


History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.16 Wisconsin administrative codes. The following Wisconsin Administrative Codes shall supersede the standards specified in s. ILHR 32.15 for those safety and health issues which fall within the scope of the respective codes.

Register, March, 1991, No. 423
ILHR 32.22 [29 CFR 1910.23] Guarding floor and wall openings and holes. This department rule is in addition to the requirements of 29 CFR 1910.23 (d) (1):

(1) Exterior stairways or steps having 4 or more risers shall be equipped with standard railings or standard handrails on each side. Exterior stairways or steps more than 50 feet wide shall be provided with one or more intermediate handrails.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.23 [29 CFR 1910.23] Portable wood ladders. (1) Use. (a) Substitute the following wording for 29 CFR 1910.25 (d) (2) (xv):

1. No portable ladder may be used to gain access to a roof, floor, or platform, unless the top of the ladder extends at least 3 feet above the point of support.

(b) Substitute the following wording for 29 CFR 1910.25 (d) (2) (xix):

1. All portable rung ladders shall be equipped with nonslip bases when there is a hazard of slipping.

Note: Nonslip bases are not intended as a substitute for care in safely placing, lashing or holding a ladder that is being used upon oily, metal, concrete, or other slippery surfaces.

(2) Care and use of ladders. This department rule is in addition to 29 CFR 1910.25 (d):

(a) An attendant shall hold the stepladder when it is in use if the ladder is more than 10 feet in height, unless it is securely lashed or blocked.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.


(a) The ladder base section shall be placed with a secure footing. Safety shoes shall be installed on all ladders. Where ladders are used on hard, slick surfaces, a foot-ladder board shall be employed.

(2) Care and maintenance of ladders. This department rule is in addition to 29 CFR 1910.26 (c):

Register, March, 1991, No. 423
(c) A volume of tempered outside air shall be supplied to replace the air exhausted if the total volume of air exhausted exceeds one air change per hour. The quantity of make-up air shall equal at least 90% of the air exhausted.

(3) Separation of Exhaust Systems. There shall be no connection between exhaust systems or ducts which convey different materials from separate operations, the combination of which may produce explosive, heat-generating, corrosive, poisonous or otherwise dangerous mixtures.

(4) Protection Against Interference of Exhaust Systems. Where 2 or more local exhaust systems operating at different branch duct velocities are installed in the same room or ventilated area, and any system is affected by this arrangement, tempered outside air shall be supplied to the room in a volume not less than that exhausted under simultaneous operation of all the exhaust systems in the room except where the separate exhaust systems are so arranged that they cannot be operated simultaneously.

(5) Capacity of Local Exhaust Ventilation Systems. (a) Exhaust systems for the control of dusts from woodworking operations shall be designed and operated to maintain a velocity of not less than 4000 feet per minute in the branch ducts and not less than 3500 feet per minute in the main ducts. Branch duct connections of exhaust systems serving woodworking machines shall provide air volumes not less than that specified in Table 32.27.

Table 32.27
MINIMUM AIR VOLUMES FOR BRANCH DUCT CONNECTIONS
(in cubic feet per minute [cfm])

<table>
<thead>
<tr>
<th>TABLE SAWS - RIP, MITTER &amp; VARIETY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Saw Diameter</strong></td>
</tr>
<tr>
<td>Up to 16 inches</td>
</tr>
<tr>
<td>Over 16 to 24 inches</td>
</tr>
<tr>
<td>Over 24 inches</td>
</tr>
<tr>
<td>Variety saw with dado head</td>
</tr>
</tbody>
</table>

BAND SAWs

<table>
<thead>
<tr>
<th><strong>Blade Width</strong></th>
<th><strong>Exhaust Volume</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 2 inches</td>
<td>350 cfm</td>
</tr>
<tr>
<td>Over 2 to 3 inches</td>
<td>550 cfm</td>
</tr>
<tr>
<td>Over 3 to 4 inches</td>
<td>790 cfm</td>
</tr>
<tr>
<td>Over 4 to 6 inches</td>
<td>1070 cfm</td>
</tr>
<tr>
<td>Over 6 to 8 inches</td>
<td>1400 cfm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Exhaust Volume</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Run</td>
</tr>
<tr>
<td>Bottom Run</td>
</tr>
</tbody>
</table>

INDUSTRY, LABOR AND HUMAN RELATIONS

JOINTERS

<table>
<thead>
<tr>
<th><strong>Knife Size</strong></th>
<th><strong>Exhaust Volume</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 6 inches</td>
<td>350 cfm</td>
</tr>
<tr>
<td>Over 6 to 12 inches</td>
<td>440 cfm</td>
</tr>
<tr>
<td>Over 12 to 20 inches</td>
<td>550 cfm</td>
</tr>
<tr>
<td>Over 20 inches</td>
<td>800 cfm</td>
</tr>
</tbody>
</table>

SINGLE PLANERS

<table>
<thead>
<tr>
<th><strong>Knife Size</strong></th>
<th><strong>Exhaust Volume</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 20 inches</td>
<td>785 cfm</td>
</tr>
<tr>
<td>Over 20 to 26 inches</td>
<td>1100 cfm</td>
</tr>
<tr>
<td>Over 26 to 32 inches</td>
<td>1400 cfm</td>
</tr>
<tr>
<td>Over 32 to 38 inches</td>
<td>1765 cfm</td>
</tr>
<tr>
<td>Over 38 inches</td>
<td>2200 cfm</td>
</tr>
</tbody>
</table>

DISC SANDERS

<table>
<thead>
<tr>
<th><strong>Size</strong></th>
<th><strong>Exhaust Volume</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 12 inches</td>
<td>350 cfm</td>
</tr>
<tr>
<td>Over 12 to 18 inches</td>
<td>440 cfm</td>
</tr>
<tr>
<td>Over 18 to 26 inches</td>
<td>550 cfm</td>
</tr>
<tr>
<td>Over 26 to 32 inches</td>
<td>700 cfm 2 Bottom Branches</td>
</tr>
<tr>
<td>Over 32 to 38 inches</td>
<td>900 cfm 2 Bottom Branches</td>
</tr>
<tr>
<td>Over 38 to 48 inches</td>
<td>1250 cfm 1 Top and 2 Bottom Branches</td>
</tr>
</tbody>
</table>

HORIZONTAL BELT SANDERS (When Bottom Run of Belt is Used)

<table>
<thead>
<tr>
<th><strong>Size</strong></th>
<th><strong>Exhaust Volume</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 6 inches wide</td>
<td>350 cfm 440 cfm</td>
</tr>
<tr>
<td>Over 6 in. to 9 in.</td>
<td>550 cfm 800 cfm</td>
</tr>
<tr>
<td>Over 9 in. to 14 in.</td>
<td>550 cfm 1100 cfm</td>
</tr>
</tbody>
</table>

OTHER WOODWORKING MACHINES

Woodshapers and variety machines | 400 cfm to 1400 cfm

(b) Exhaust systems shall be provided for the control of dust from the following operations and shall maintain the specified air movements and velocities:

1. Abrasive blasting rooms. a. An abrasive blasting room shall be exhausted at a rate of at least 80 cubic feet per minute per square foot of the room's floor area for a down draft exhaust system or 80 cubic feet per
minute per square foot of cross sectional area for a cross draft exhaust system.

b. Exhaust systems for abrasive blasting rooms shall have a minimum duct velocity of at least 4500 feet per minute.

c. All air inlets provided for an abrasive blasting room shall provide a minimum air velocity of at least 500 feet per minute.

2. Mixer and muller. Mixer and muller operations shall be provided with an exhaust system that will operate at a velocity of not less than 150 feet per minute through all openings. Mixer and muller operations shall be housed in a complete enclosure.

6. VENTILATION FOR KILNS. (a) General. 1. Local exhaust ventilation shall be provided for all fuel-fired and electric kilns. Ventilation systems shall be designed in accordance with the best practices of the industry and are subject to acceptability by the department.

Note: Examples of acceptable local exhaust ventilation systems include, but are not limited to, Vent-A-Kiln and Skutl Enviro Vents.

2. Local exhaust ventilation need not be provided where the kilns can be isolated in a separate room and the room is ventilated by means of a dedicated system at the rate of 10 air changes per hour.

Note 1: Ventilation capacity for 10 air changes per hour can be calculated as follows:

\[
\text{Room volume (cu. ft.) x 10} \div 60 = \text{cfm needed}
\]

Note 2: Reduced atmosphere firing produces high concentrations of carbon monoxide and caution should be exercised when entering the kiln room.

3. Canopy hood exhaust systems shall be designed in accordance with the requirements specified in par. (b) and Figure 32.27.

4. Movable kilns shall be positioned under an exhaust hood during the firing cycle.

(b) Canopy hood ventilation. 1. The height of a canopy hood above the top surface of a top-loading kiln shall be limited to that which is necessary for loading of the kiln. Canopy hoods over side- or front-loading kilns shall be located as close to the top edge of the kiln as possible, and side curtains shall not be required.

2. Canopy hoods over top-loading kilns shall be provided with noncombustible side curtains on 3 sides. If the kiln is located against a wall, only 2 side curtains shall be required. Side curtains shall extend down from the bottom edge of the canopy hood to the top edge of the kiln. Side curtains shall not be required for retractable hoods which can be positioned directly over the top of the kiln after loading.

(c) Location of kilns. 1. All fuel-fired kilns located inside of a building shall be enclosed in a fire-resistive enclosure as specified in s. ILHR 56.15.

2. Kilns shall not be located in boiler or furnace rooms.

3. Fuel-fired kilns located outside of buildings shall be exempt from the ventilation requirements of this subsection. They shall be located to minimize the products of combustion from entering the building, but in no
INDUSTRY, LABOR AND HUMAN RELATIONS

(7) **Disposal of Exhaust Material.** (a) All dusts, fumes, vapors and gases from exhaust systems installed under this section shall be disposed of in a manner to eliminate the health hazards from occupied areas. Dust collecting systems shall be provided with dust separators, arresters, collectors or precipitators to separate the dust from the air before the air is discharged from the exhaust system.

(b) All exhaust systems shall discharge to the outside atmosphere, except as provided in para. (e).

(c) Recirculation of contaminated air may be permitted where the exhaust system washes, scrubs or filters the air. Systems of this type shall be designed in accordance with the criteria established in part 2 of the National Institute for Occupational Safety and Health (NIOSH) standard "Recirculation of Exhaust Air", H.E.W. Publication (NIOSH) #76-186.

Note: "A Recommended Approach to Recirculation of Exhaust Air", H.E.W. Publication (NIOSH) #78-124 may be used as a guideline in designing the exhaust systems.

(d) Combustible solids or fluids, including gases, unless immediately destroyed, shall be delivered to containers which will isolate the fire and explosion hazard from all occupied areas and structures. Collectors, or settling chambers, for combustible solids or fluids shall not be placed within an occupied building, or at any point where the ignition of the contents will be a direct life or fire hazard unless the collector or settling chamber is housed in a room or enclosure of 2-hour fire-resistant construction or better.

(8) **Maintenance and Operation of Equipment.** (a) Every exhaust ventilation system and other protective equipment installed under this chapter shall be maintained in working order and shall be operated to provide the results required by this chapter.

(b) All power equipment, ducts, housing and other parts of an exhaust ventilation system shall be kept clean.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

**ILHR 32.28** [29 CFR 1910.101] Compressed gases. This department rule is in addition to 29 CFR 1910.101:

(1) All compressed gas cylinders shall be secured to prevent falling.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

**ILHR 32.29** [29 CFR 1910.107] Spray finishing. These department rules are in addition to 29 CFR 1910.107:

(1) **Plan Submittal.** Plans in quadruplicate and one set of specifications shall be submitted to the department for approval before installing any spray booth in all places of employment and public buildings.

Note 1: Extra copies of the plans may be filed for the approval stamp, but they should accompany the quadruplicate plans.

Note 2: Section 161.19, Stats., authorizes the department to fix and collect fees for the approval of plans.

(2) **Definitions.** In this section:

(a) "Atomizing pressure" means the force of the air used to atomize or break up the paint or other coating material.
(b) "Booth" means an enclosure with an exhaust system and is of the following types:

1. "Cabinet booth" means an enclosure open on one side only and equipped with an independent exhaust system.

2. "Canopy booth" means an overhead dome enclosure open on all sides at the bottom and equipped with an independent exhaust system.

3. "Room booth" means a room or enclosure equipped with an independent exhaust system.

4. "Tunnel booth" means an enclosure with both ends open equipped with an independent exhaust system.

(c) "Chemical cartridge respirator" means a respirator which is equipped with a chemical cartridge or canister which mechanically removes solid particles and chemically removes vapors from air being breathed.

(d) "Exhaust system" means all equipment connected with the removal of air from the spray zone.

(e) "Paint pressure" means the force in a closed tank bearing on the paint or other coating material to raise it to the spray gun level.

(f) "Pressure regulator" means an instrument or device for regulating or controlling air pressure.

(g) "Spray gun" means a mechanical device employing pressure for the application of paints, varnishes, lacquers and similar coating materials.

(h) "Vacuum type spray gun" means a type of spray gun with a materials container in which the liquid is drawn into the atomizing air stream by a partial vacuum created by the flow of air over the paint chamber outlet opening.

3. Operation at different levels. At no time shall 2 or more operators working at elevations differing more than 8 feet use paint from the same supply tank unless spray guns are equipped with paint pressure regulators.

Note: If this maximum allowable difference in working elevations were exceeded, the operators working at the lower levels would be subjected to excessive mist.

4. Exclusion of others. No one but spray operators and their helpers shall be permitted within a zone where a mist or deposit is apparent, unless such a person is protected the same as operators and helpers.

5. Contamination of adjacent areas. Precautionary measures shall be taken to prevent contamination of the atmosphere in adjacent occupied areas.

(d) Personal protection. 1. Nose and mouth protection. a. The nose and mouth of each operator and of any other person in the area contaminated by spray, shall be protected with an approved respirator or other approved device furnished and maintained in a clean and efficient condition by the employer.

b. Where air is supplied from outside the contaminated area, such air shall be supplied and conveyed as specified in 29 CFR 1910.134 (d) (2) (i) so as to prevent the introduction of any hazardous gases, dusts, fumes or vapors into the respirator.

2. Cleansing of respirators. Every respirator shall be cleansed at least once each day. Where the filter type respirator is used, the filter shall be replaced not less than twice each working day, or as often as necessary. In case of intermittent use of a filter type respirator, it shall be cleansed and the filter replaced at least once each calendar day of use, unless sterilized provisions shall be made to insure that the cleansed respirators are returned to the same individuals who used them prior to the cleansing.

3. Approval of respirators. Every respirator or other such device used shall meet the approval of the department.

Note: The chemical cartridge respirator is the only one of the filter type that will be approved for use in spray coating.

4. Head protection. The head shall be covered with a low fitting cap with visor.

5. Body protection. The body shall be covered with clothing as close fitting as possible consistent with comfort, paying particular attention to the fit at neck and wrists.

6. Hand protection. The hands shall be protected by gloves, preferably of the gauntlet type.

7. Responsibility and maintenance. All protective clothing shall be furnished and maintained in a sanitary condition by the employer. A complete change shall be furnished at least once a week or as often as necessary.

8. Face and neck anointed. All exposed parts of the body shall be kept anointed with nonirritating, protective oil, grease or cream during spray coating operations.
9. Washing facilities. Clean rags shall be furnished by the employer and washing facilities shall be provided in compliance with chs. ILHR 50 to 64.

Note: The purpose of this is to eliminate the necessity of washing with turpentine or naphtha, the continued use of which is extremely irritating to the skin.

(4) Spray coating operations inside of buildings. All spray coating operations inside of buildings, except the spray coating of walls, structural members and fixtures of a building or other structure, shall comply with the regulations of 29 CFR 1910.14 (c).

History: Cr. Register, March, 1990, No. 423, eff. 4-1-91.

ILHR 32.30 [29 CFR 1910.156] Fire brigades. Section 29 CFR 1910.156 is not included as part of this chapter.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.31 [29 CFR 1910.176] Handling materials, general. These department rules are in addition to 29 CFR 1910.176:

(1) Conveyors. (a) The ripping and shearing points of conveyors, when exposed to contact, shall be guarded as specified in 29 CFR 1910.212 and Table O-10 of 29 CFR 1910.217.

(b) The tops of screw conveyor troughs, where the screw is exposed to contact, shall be kept covered. Openings into which persons may step, reach or fall shall be protected by standard guardrails as required by 29 CFR 1910.23, or other approved protection.

(c) Conveyor systems passing through more than one room, or from one working level to another, shall be provided in each room, or working level, where exposed to contact, with means to disconnect the power.

(d) When a conveyor passes over passageways, aisles or working areas and is so constructed that it is reasonable to expect materials on the conveyor to be dislodged and be hazardous to persons in such areas, guards shall be provided.

(2) Stakes and binders. Stakes or binders used on logging cars or trucks to hold the load of logs in place when being transported, shall be so designed as to make it possible for the operator to loosen or disengage the stakes and binders when standing in a safe position.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.32 [29 CFR 1910.179] Overhead and gantry cranes. These department rules are in addition to 29 CFR 1910.179:

(1) Design. (a) Every overhead trolley and every monorail crane operating with a load on a horizontal track, or on a track having a slope less than 15°, shall be constructed and maintained so as to prevent its leaving the track.

(b) Where trolleys are operated without a load, and in all cases where the slope of the track is 15° or more, a guard rail shall be installed which will prevent the trolley from falling if it leaves the track.

Note: No guard rail is required on overhead trolley tracks operating with a load on the trolley unless the slope of the track is 15° or more.

Register, March, 1991, No. 423

(2) Safety stop. In all installations, a safety stop shall be provided and maintained at all switches and at the ends of all rails to prevent the trolley from leaving the rail at these points.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.33 [29 CFR 1910.212] General requirements for all machines. These department rules are in addition to 29 CFR 1910.212 (a):

(a) Machine control. (a) Disconnect from source of power. Every machine shall be equipped with a loose pulley, clutch, switch or other adequate means within reaching distance of the normal operating positions of the operator for the purpose of disconnecting the machine from the source of power.

2. Machines on which 2 or more persons work shall be equipped with one or more controls so located that more than one of these persons can quickly disconnect the machine from the source of power.

(b) Tripping device. Every machine set in motion by a tripping device shall be guarded against accidental tripping. Where a cover guard is used it shall completely protect the treadle bar and its linkage. A treadle that will automatically lock may be used in lieu of a cover.

(c) Lockouts. Machines shut down for oiling or maintenance shall be so locked out or otherwise protected so as to prevent starting the machine while such work is in progress.

(d) Guarding of moving parts. Any moving part of a machine which at any time leaves a space of less than 18 inches between it and any fixed object not a part of the machine, or between it and a moving or stationary part of the machine or of any other machine, shall be guarded.

(e) Quick stopping devices. Where it is impractical to install fixed guards in the case of revolving machine parts, a positive quick stopping device shall be provided which can be operated from any work position of the machine.

(f) Food grinders. All power driven food grinders of the worm type shall be so constructed that meat or other foods can be safely fed to the worm by one of the following methods:

1. By a mechanical method of feeding the worm;

2. By the use of a permanently attached feed throat to the cylinder enclosing the worm which shall have an opening not exceeding 2 inches in diameter at a distance of at least 6 inches above the worm; or

3. By other approved means which shall make it impossible for any operator to reach the worm while it is in motion.

(g) Counterweights, tension weights and springs. 1. Every counterweight, where exposed to contact, shall be enclosed or be equipped with a safety chain attached independent of the counterweight support, that shall prevent the weight from falling to a point of less than 7 feet from the floor or working level.

2. Every tension weight exposed to contact shall be enclosed or securely fastened to the tension bar.

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3. All springs shall be guarded or otherwise equipped to eliminate any hazard due to breakage of spring or failure of the mounting.

(h) **Revolving stock.** All revolving stock projecting from machines shall be guarded by a pipe enclosure or other approved means to prevent contact with the stock.

(1) **Prevention of automatic restarting.** On applications where injury to the operator might result if motors were to restart after power failures, provision shall be made to prevent machines from automatically restarting upon restoration of power.

(2) **Guarding of pipes; hot materials.** All pipes carrying steam or other hot materials within 7 feet of the floor or working platform, that are exposed to contact, shall be covered with an insulating material, or guarded so that contact will not cause personal injury.

(3) **Maintenance.** All equipment, machine tools, guards and power-driven machinery shall be maintained in safe condition.

**History:** Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.34 [29 CFR 1910.213] Woodworking machinery. (1) **Radial arm saws.** These department rules are in addition to 29 CFR 1910.213 (h):

(a) **Limit stop.** A stop shall be provided to prevent the forward travel of the blade beyond the front of the table.

(b) **Return device.** Every radial arm saw shall be equipped with a device to return the saw automatically to the back of the table when released at any point of its travel; the device shall prevent the saw from rebounding and shall not depend on fiber rope or cord for this function.

(2) **Tilted equipment.** Subsection 29 CFR 1910.213 (h) (4) is not included as part of this chapter.

(3) **Jointers.** This department rule is in addition to 29 CFR 1910.213 (j):

(a) Jointers used for surfacing work shall be equipped with an automatic floating guard over the knives.

**History:** Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.35 [29 CFR 1910.219] Mechanical power-transmission apparatus. This department rule is in addition to 29 CFR 1910.219:

(1) **All machines.** All machines lubricated while in motion and having lubricating devices so located as to make it hazardous to reach them shall be equipped with an automatic lubricating device or other approved means to protect the employee.

**History:** Cr. Register, March, 1991, No. 423, eff. 4-1-91.

ILHR 32.36 [29 CFR 1910.266] Logging. This department rule is in addition to 29 CFR 1910.266:

(1) The regulations of 29 CFR 1910.266 shall apply to all logging operations and not just to those involving pulpwood timber.

**History:** Cr. Register, March, 1991, No. 423, eff. 4-1-91.

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a. There shall be effective voice communication at all times between the following locations:
   1. The working chamber face;
   2. The working chamber side of the man lock near the door;
   3. The interior of the man lock;
   4. Lock attendant’s station;
   5. The compressor plant;
   6. At the surface or shaft opening;
   7. The first-aid station;
   8. The emergency lock, if one is required; and
   9. The special decompression chamber, if one is required.

3. LOCK DOORS. Substitute the following wording for 29 CFR 1926.803 (g) (1) (xv):

   (a) When locks are not in use and persons are in the working chamber, lock doors shall be kept closed to the working chamber except where there are separate man and muck locks. In this case at least one door to the working chamber shall be closed.

   History: Cr. Register, March, 1991, No. 423, eff. 4-1-91.

Subchapter V - Incorporation of Standards by Reference

ILHR 32.50 Incorporation of standards by reference. (1) AUTHORITY. Section 101.655 (3) (a), Stats., permits the department to incorporate by reference the standards adopted in sub. (4).

(2) COPIES. Copies of the adopted standards are on file in the offices of the department, the secretary of state and the revisor of statutes. Copies also may be purchased through the respective organizations.

(3) INTERIM AMENDMENTS. Interim amendments of the adopted standards shall have no effect in the state until the time that this section is correspondingly revised to reflect the changes.

(4) STANDARDS. The standards listed in the following tables are hereby incorporated by reference into this chapter.

Table 32.50-1

<table>
<thead>
<tr>
<th>NIOSH</th>
<th>U.S. Department of Commerce</th>
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<tbody>
<tr>
<td></td>
<td>National Technical Information Service</td>
</tr>
<tr>
<td></td>
<td>5265 Port Royal Road</td>
</tr>
<tr>
<td></td>
<td>Springfield, VA 22161</td>
</tr>
<tr>
<td></td>
<td>Telephone: 703/487-4650</td>
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</tbody>
</table>

1. Recirculation of Exhaust Air, HEW (NIOSH) Publication #76-186.

History: Cr. Register, March, 1991, No. 423, eff. 4-1-91