

**§ 56.17001**

(c) Load not raised or lowered enroute except for minor adjustments; and

(d) Load-engaging device downgrade when traveling unloaded on all grades.

**Subpart P—Illumination**

**§ 56.17001 Illumination of surface working areas.**

Illumination sufficient to provide safe working conditions shall be provided in and on all surface structures, paths, walkways, stairways, switch panels, loading and dumping sites, and work areas.

**Subpart Q—Safety Programs**

**§ 56.18002 Examination of working places.**

(a) A competent person designated by the operator shall examine each working place at least once each shift for conditions which may adversely affect safety or health. The operator shall promptly initiate appropriate action to correct such conditions.

(b) A record that such examinations were conducted shall be kept by the operator for a period of one year, and shall be made available for review by the Secretary or his authorized representative.

(c) In addition, conditions that may present an imminent danger which are noted by the person conducting the examination shall be brought to the immediate attention of the operator who shall withdraw all persons from the area affected (except persons referred to in section 104(c) of the Federal Mine Safety and Health Act of 1977) until the danger is abated.

**§ 56.18006 New employees.**

New employees shall be indoctrinated in safety rules and safe work procedures.

**§ 56.18009 Designation of person in charge.**

When persons are working at the mine, a competent person designated by the mine operator shall be in attendance to take charge in case of an emergency.

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**§ 56.18010 First aid.**

An individual capable of providing first aid shall be available on all shifts. The individual shall be currently trained and have the skills to perform patient assessment and artificial respiration; control bleeding; and treat shock, wounds, burns, and musculoskeletal injuries. First aid training shall be made available to all interested miners.

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**§ 56.18012 Emergency telephone numbers.**

Emergency telephone numbers shall be posted at appropriate telephones.

**§ 56.18013 Emergency communications system.**

A suitable communication system shall be provided at the mine to obtain assistance in the event of an emergency.

**§ 56.18014 Emergency medical assistance and transportation.**

Arrangements shall be made in advance for obtaining emergency medical assistance and transportation for injured persons.

**§ 56.18020 Working alone.**

No employee shall be assigned, or allowed, or be required to perform work alone in any area where hazardous conditions exist that would endanger his safety unless he can communicate with others, can be heard, or can be seen.

**Subpart R—Personnel Hoisting**

**§ 56.19000 Application.**

(a) The hoisting standards in this subpart apply to those hoists and appurtenances used for hoisting persons. However, where persons may be endangered by hoists and appurtenances used solely for handling ore, rock, and materials, the appropriate standards should be applied.

(b) Standards 56.19021 through 56.19028 apply to wire ropes in service used to hoist persons with an incline hoist on the surface.

(c) Emergency hoisting facilities should conform to the extent possible to safety requirements for other hoists,

and should be adequate to remove the persons from the mine with a minimum of delay.

HOISTS

**§ 56.19001 Rated capacities.**

Hoists shall have rated capacities consistent with the loads handled and the recommended safety factors of the ropes used.

**§ 56.19002 Anchoring.**

Hoists shall be anchored securely.

**§ 56.19003 Driving mechanism connections.**

Belt, rope, or chains shall not be used to connect driving mechanisms to man hoists.

**§ 56.19004 Brakes.**

Any hoist used to hoist persons shall be equipped with a brake or brakes which shall be capable of holding its fully loaded cage, skip, or bucket at any point in the shaft.

**§ 56.19005 Locking mechanism for clutch.**

The operating mechanism of the clutch of every man-hoist drum shall be provided with a locking mechanism, or interlocked electrically or mechanically with the brake to prevent accidental withdrawal of the clutch.

**§ 56.19006 Automatic hoist braking devices.**

Automatic hoists shall be provided with devices that automatically apply the brakes in the event of power failure.

**§ 56.19007 Overtravel and overspeed devices.**

All man hoists shall be provided with devices to prevent overtravel. When utilized in shafts exceeding 100 feet in depth, such hoists shall also be provided with overspeed devices.

**§ 56.19008 Friction hoist synchronizing mechanisms.**

Where creep or slip may alter the effective position of safety devices, friction hoists shall be equipped with synchronizing mechanisms that recal-

ibrate the overtravel devices and position indicators.

**§ 56.19009 Position indicator.**

An accurate and reliable indicator of the position of the cage, skip, bucket, or cars in the shaft shall be provided.

**§ 56.19010 Location of hoist controls.**

Hoist controls shall be placed or housed so that the noise from machinery or other sources will not prevent hoistmen from hearing signals.

**§ 56.19011 Drum flanges.**

Flanges on drums shall extend radially a minimum of 4 inches or three rope diameters beyond the last wrap, whichever is the lesser.

**§ 56.19012 Grooved drums.**

Where grooved drums are used, the grooves shall be of suitable size and pitch for the ropes used.

**§ 56.19013 Diesel- and other fuel-injection-powered hoists.**

Where any diesel or similar fuel-injection engine is used to power a hoist, the engine shall be equipped with a damper or other cutoff in its air intake system. The control handle shall be clearly labeled to indicate that its intended function is for emergency stopping only.

**§ 56.19014 Friction hoist overtravel protection.**

In a friction hoist installation, tapered guides or other approved devices shall be installed above and below the limits of regular travel of the conveyance and arranged to prevent overtravel in the event of failure of other devices.

**§ 56.19017 Emergency braking for electric hoists.**

Each electric hoist shall be equipped with a manually-operable switch that will initiate emergency braking action to bring the conveyance and the counterbalance safely to rest. This switch shall be located within reach of the hoistman in case the manual controls of the hoist fail.