

**§ 56.18014**

**§ 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

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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 recalibrate 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.