

#### **§ 57.19049**

shaft with an angle of inclination of forty-five degrees from the horizontal, shall be covered with a metal bonnet.

#### **§ 57.19049 Hoisting persons in buckets.**

Buckets shall not be used to hoist persons except during shaft sinking operations, inspection, maintenance, and repairs.

#### **§ 57.19050 Bucket requirements.**

Buckets used to hoist persons during vertical shaft sinking operations shall—

(a) Be securely attached to a crosshead when traveling in either direction between the lower and upper crosshead parking locations;

(b) Have overhead protection when the shaft depth exceeds 50 feet;

(c) Have sufficient depth or a suitably designed platform to transport persons safely in a standing position; and

(d) Have devices to prevent accidental dumping where the bucket is supported by a bail attached to its lower half.

#### **§ 57.19054 Rope guides.**

Where rope guides are used in shafts other than in shaft sinking operations, the rope guides shall be a type of lock coil construction.

#### **HOISTING PROCEDURES**

#### **§ 57.19055 Availability of hoist operator for manual hoists.**

When a manually operated hoist is used, a qualified hoistman shall remain within hearing of the telephone or signal device at all times while any person is underground.

#### **§ 57.19056 Availability of hoist operator for automatic hoists.**

When automatic hoisting is used, a competent operator of the hoist shall be readily available at or near the hoisting device while any person is underground.

#### **§ 57.19057 Hoist operator's physical fitness.**

No person shall operate a hoist unless within the preceding 12 months he has had a medical examination by a qualified, licensed physician who shall

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certify his fitness to perform this duty. Such certification shall be available at the mine.

#### **§ 57.19058 Experienced hoist operators.**

Only experienced hoistmen shall operate the hoist except in cases of emergency and in the training of new hoistmen.

#### **§ 57.19061 Maximum hoisting speeds.**

The safe speed for hoisting persons shall be determined for each shaft, and this speed shall not be exceeded. Persons shall not be hoisted at a speed faster than 2,500 feet per minute, except in an emergency.

#### **§ 57.19062 Maximum acceleration and deceleration.**

Maximum normal operating acceleration and deceleration shall not exceed 6 feet per second per second. During emergency braking, the deceleration shall not exceed 16 feet per second per second.

#### **§ 57.19063 Persons allowed in hoist room.**

Only authorized persons shall be in hoist rooms.

#### **§ 57.19065 Lowering conveyances by the brakes.**

Conveyances shall not be lowered by the brakes alone except during emergencies.

#### **§ 57.19066 Maximum riders in a conveyance.**

In shafts inclined over 45 degrees, the operator shall determine and post in the conveyance or at each shaft station the maximum number of persons permitted to ride in a hoisting conveyance at any one time. Each person shall be provided a minimum of 1.5 square feet of floor space.

#### **§ 57.19067 Trips during shift changes.**

During shift changes, an authorized person shall be in charge of each trip in which persons are hoisted.

#### **§ 57.19068 Orderly conduct in conveyances.**

Persons shall enter, ride, and leave conveyances in an orderly manner.