

**§57.19109 Shaft inspection and repair.**

Shaft inspection and repair work in vertical shafts shall be performed from substantial platforms equipped with bonnets or equivalent overhead protection.

**§57.19110 Overhead protection for shaft deepening work.**

A substantial bulkhead or equivalent protection shall be provided above persons at work deepening a shaft.

**§57.19111 Shaft-sinking ladders.**

Substantial fixed ladders shall be provided from the collar to as near the shaft bottom as practical during shaft-sinking operations, or an escape hoist powered by an emergency power source shall be provided. When persons are on the shaft bottom, a chain ladder, wire rope ladder, or other extension ladders shall be used from the fixed ladder or lower limit of the escape hoist to the shaft bottom.

INSPECTION AND MAINTENANCE

**§57.19120 Procedures for inspection, testing, and maintenance.**

A systematic procedure of inspection, testing and maintenance of shaft and hoisting equipment shall be developed and followed. If it is found or suspected that any part is not functioning properly, the hoist shall not be used until the malfunction has been located and repaired or adjustments have been made.

**§57.19121 Recordkeeping.**

At the time of completion, the person performing inspections, tests, and maintenance of shafts and hoisting equipment required in standard 57.19120 shall certify, by signature and date, that they have been done. A record of any part that is not functioning properly shall be made and dated. Certifications and records shall be retained for one year.

(Sec. 101, Pub. L. 91-173 as amended by Pub. L. 95-164, 91 Stat. 1291 (30 U.S.C. 811))

[50 FR 4082, Jan. 29, 1985, as amended at 60 FR 33722, June 29, 1995]

**§57.19122 Replacement parts.**

Parts used to repair hoists shall have properties that will ensure the proper and safe function of the hoist.

**§57.19129 Examinations and tests at beginning of shift.**

Hoistmen shall examine their hoists and shall test overtravel, deadman controls, position indicators, and braking mechanisms at the beginning of each shift.

**§57.19130 Conveyance shaft test.**

Before hoisting persons and to assure that the hoisting compartments are clear of obstructions, empty hoist conveyances shall be operated at least one round trip after—

- (a) Any hoist or shaft repairs or related equipment repairs that might restrict or obstruct conveyance clearance;
- (b) Any oversize or overweight material or equipment trips that might restrict or obstruct conveyance clearance;
- (c) Blasting in or near the shaft that might restrict or obstruct conveyance clearance; or
- (d) Remaining idle for one shift or longer.

**§57.19131 Hoist conveyance connections.**

Hoist conveyance connections shall be inspected at least once during any 24-hour period that the conveyance is used for hoisting persons.

**§57.19132 Safety catches.**

- (a) A performance drop test of hoist conveyance safety catches shall be made at the time of installation, or prior to installation in a mockup of the actual installation. The test shall be certified to in writing by the manufacturer or by a registered professional engineer performing the test.
- (b) After installation and before use, and at the beginning of any seven day period during which the conveyance is to be used, the conveyance shall be suitably rested and the hoist rope slackened to test for the unrestricted functioning of the safety catches and their activating mechanisms.
- (c) The safety catches shall be inspected by a competent person at the

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beginning of any 24-hour period that the conveyance is to be used.

#### **§ 57.19133 Shaft.**

Shafts that have not been inspected within the past 7 days shall not be used until an inspection has been conducted by a competent person.

#### **§ 57.19134 Sheaves.**

Sheaves in operating shafts shall be inspected weekly and kept properly lubricated.

#### **§ 57.19135 Rollers in inclined shafts.**

Rollers used in operating inclined shafts shall be lubricated, properly aligned, and kept in good repair.

### **Subpart S—Miscellaneous**

#### **§ 57.20001 Intoxicating beverages and narcotics.**

Intoxicating beverages and narcotics shall not be permitted or used in or around mines. Persons under the influence of alcohol or narcotics shall not be permitted on the job.

#### **§ 57.20002 Potable water.**

(a) An adequate supply of potable drinking water shall be provided at all active working areas.

(b) The common drinking cup and containers from which drinking water must be dipped or poured are prohibited.

(c) Where single service cups are supplied, a sanitary container for unused cups and a receptacle for used cups shall be provided.

(d) When water is cooled by ice, the ice shall either be of potable water or shall not come in contact with the water.

(e) Potable water outlets shall be posted.

(f) Potable water systems shall be constructed to prevent backflow or backsiphonage of non-potable water.

#### **§ 57.20003 Housekeeping.**

At all mining operations—

(a) Workplaces, passageways, storerooms, and service rooms shall be kept clean and orderly;

(b) The floor of every workplace shall be maintained in a clean and, so far as possible, dry condition. Where wet

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processes are used, drainage shall be maintained, and false floors, platforms, mats, or other dry standing places shall be provided where practicable; and

(c) Every floor, working place, and passageway shall be kept free from protruding nails, splinters, holes, or loose boards, as practicable.

#### **§ 57.20005 Carbon tetrachloride.**

Carbon tetrachloride shall not be used.

#### **§ 57.20008 Toilet facilities.**

(a) Toilet facilities shall be provided at locations that are compatible with the mine operations and that are readily accessible to mine personnel.

(b) The facilities shall be kept clean and sanitary. Separate toilet facilities shall be provided for each sex except where toilet rooms will be occupied by no more than one person at a time and can be locked from the inside.

#### **§ 57.20009 Tests for explosive dusts.**

Dusts suspected of being explosive shall be tested for explosibility. If tests prove positive, appropriate control measures shall be taken.

#### **§ 57.20010 Retaining dams.**

If failure of a water or silt retaining dam will create a hazard, it shall be of substantial construction and inspected at regular intervals.

#### **§ 57.20011 Barricades and warning signs.**

Areas where health or safety hazards exist that are not immediately obvious to employees shall be barricaded, or warning signs shall be posted at all approaches. Warning signs shall be readily visible, legible, and display the nature of the hazard and any protective action required.

#### **§ 57.20013 Waste receptacles.**

Receptacles with covers shall be provided at suitable locations and used for the disposal of waste food and associated materials. They shall be emptied frequently and shall be maintained in a clean and sanitary condition.