

(h) On conveyors unless the conveyors are designed to provide for their safe transportation.

**§ 57.9201 Loading, hauling, and unloading of equipment or supplies.**

Equipment and supplies shall be loaded, transported, and unloaded in a manner which does not create a hazard to persons from falling or shifting equipment or supplies.

**§ 57.9202 Loading and hauling large rocks.**

Large rocks shall be broken before loading if they could endanger persons or affect the stability of mobile equipment. Mobile equipment used for haulage of mined material shall be loaded to minimize spillage where a hazard to persons could be created.

**§ 57.9260 Supplies, materials, and tools on mantrips.**

Supplies, materials, and tools, other than small items that can be carried by hand, shall not be transported underground with persons in mantrips. Mantrips shall be operated independently of ore or supply trips.

**§ 57.9261 Transporting tools and materials on locomotives.**

Tools or materials shall not be carried on top of locomotives underground except for secured rerailing devices located in a manner which does not create a hazard to persons.

SAFETY DEVICES, PROVISIONS, AND PROCEDURES FOR ROADWAYS, RAILROADS, AND LOADING AND DUMPING SITES

**§ 57.9300 Berms or guardrails.**

(a) Berms or guardrails shall be provided and maintained on the banks of roadways where a drop-off exists of sufficient grade or depth to cause a vehicle to overturn or endanger persons in equipment.

(b) Berms or guardrails shall be at least mid-axle height of the largest self-propelled mobile equipment which usually travels the roadway.

(c) Berms may have openings to the extent necessary for roadway drainage.

(d) Where elevated roadways are infrequently traveled and used only by service or maintenance vehicles, berms

or guardrails are not required when all of the following are met:

(1) Locked gates are installed at the entrance points to the roadway.

(2) Signs are posted warning that the roadway is not bermed.

(3) Delineators are installed along the perimeter of the elevated roadway so that, for both directions of travel, the reflective surfaces of at least three delineators along each elevated shoulder are always visible to the driver and spaced at intervals sufficient to indicate the edges and attitude of the roadway.

(4) A maximum speed limit is posted and observed for the elevated unbermed portions of the roadway. Factors to consider when establishing the maximum speed limit shall include the width, slope and alignment of the road, the type of equipment using the road, the road material, and any hazardous conditions which may exist.

(5) Road surface traction is not impaired by weather conditions, such as sleet and snow, unless corrective measures, such as the use of tire chains, plowing, or sanding, are taken to improve traction.

(e) This standard is not applicable to rail beds.

[53 FR 32526, Aug. 25, 1988, as amended at 55 FR 37218, Sept. 7, 1990]

**§ 57.9301 Dump site restraints.**

Berms, bumper blocks, safety hooks, or similar impeding devices shall be provided at dumping locations where there is a hazard of overtravel or overturning.

**§ 57.9302 Protection against moving or runaway railroad equipment.**

Stopblocks, derail devices, or other devices that protect against moving or runaway rail equipment shall be installed wherever necessary to protect persons.

**§ 57.9303 Construction of ramps and dumping facilities.**

Ramps and dumping facilities shall be designed and constructed of materials capable of supporting the loads to which they will be subjected. The ramps and dumping facilities shall provide width, clearance, and headroom to

**§ 57.9304**

safely accommodate the mobile equipment using the facilities.

**§ 57.9304 Unstable ground.**

(a) Dumping locations shall be visually inspected prior to work commencing and as ground conditions warrant.

(b) Where there is evidence that the ground at a dumping location may fail to support the mobile equipment, loads shall be dumped a safe distance back from the edge of the unstable area of the bank.

**§ 57.9305 Truck spotters.**

(a) If truck spotters are used, they shall be in the clear while trucks are backing into dumping position or dumping.

(b) Spotters shall use signal lights to direct trucks where visibility is limited.

(c) When a truck operator cannot clearly recognize the spotter's signals, the truck shall be stopped.

**§ 57.9306 Warning devices for restricted clearances.**

Where restricted clearance creates a hazard to persons on mobile equipment, warning devices shall be installed in advance of the restricted area and the restricted area shall be conspicuously marked.

**§ 57.9307 Design, installation, and maintenance of railroads.**

Roadbeds and all elements of the railroad tracks shall be designed, installed, and maintained to provide safe operation consistent with the speed and type of haulage used.

**§ 57.9308 Switch throws.**

Switch throws shall be installed to provide clearance to protect switchmen from contact with moving trains.

**§ 57.9309 Chute design.**

Chute-loading installations shall be designed to provide a safe location for persons pulling chutes.

**§ 57.9310 Chute hazards.**

(a) Prior to chute-pulling, persons who could be affected by the draw or otherwise exposed to danger shall be

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warned and given time to clear the hazardous area.

(b) Persons attempting to free chute hangups shall be experienced and familiar with the task, know the hazards involved, and use the proper tools to free material.

(c) When broken rock or material is dumped into an empty chute, the chute shall be equipped with a guard or all persons shall be isolated from the hazard of flying rock or material.

**§ 57.9311 Anchoring stationary sizing devices.**

Grizzlies and other stationary sizing devices shall be securely anchored.

**§ 57.9312 Working around drawholes.**

Unless platforms or safety lines are used, persons shall not position themselves over drawholes if there is danger that broken rock or material may be withdrawn or bridged.

**§ 57.9313 Roadway maintenance.**

Water, debris, or spilled material on roadways which creates hazards to the operation of mobile equipment shall be removed.

**§ 57.9314 Trimming stockpile and muckpile faces.**

Stockpile and muckpile faces shall be trimmed to prevent hazards to persons.

**§ 57.9315 Dust control.**

Dust shall be controlled at muck piles, material transfer points, crushers, and on haulage roads where hazards to persons would be created as a result of impaired visibility.

**§ 57.9316 Notifying the equipment operator.**

When an operator of self-propelled mobile equipment is present, persons shall notify the equipment operator before getting on or off that equipment.

**§ 57.9317 Suspended loads.**

Persons shall not work or pass under the buckets or booms of loaders in operation.

**§ 57.9318 Getting on or off moving equipment.**

Persons shall not get on or off moving mobile equipment. This provision