

(9) Locations of permanent underground shops, diesel fuel storage depots, oil fuel storage depots, hoist rooms, compressors, battery charging stations and explosive storage facilities. Permanent facilities are those intended to exist for one year or more; and

(10) Significant changes in the ventilation system projected for one year.

(c) Mine fan data for all active main and booster fans including manufacturer's name, type, size, fan speed, blade setting, approximate pressure at present operating point, and motor brake horsepower rating.

(d) Diagrams, descriptions or sketches showing how ventilation is accomplished in each typical type of working place including the approximate quantity of air provided, and typical size and type of auxiliary fans used.

(e) The number and type of internal combustion engine units used underground, including make and model of unit, type of engine, make and model of engine, brake horsepower rating of engine, and approval number.

[50 FR 4082, Jan. 29, 1985, as amended at 60 FR 33723, June 29, 1995]

**§ 57.8525 Main fan maintenance.**

Main fans shall be maintained according to either the manufacturer's recommendations or a written periodic schedule adopted by the operator which shall be available at the operation on request of the Secretary or his authorized representative.

[50 FR 4082, Jan. 29, 1985, as amended at 60 FR 33723, June 29, 1995]

**§ 57.8527 Oxygen-deficiency testing.**

Flame safety lamps or other suitable devices shall be used to test for acute oxygen deficiency.

**§ 57.8528 Unventilated areas.**

Unventilated areas shall be sealed, or barricaded and posted against entry.

**§ 57.8529 Auxiliary fan systems**

When auxiliary fan systems are used, such systems shall minimize recirculation and be maintained to provide ventilation air that effectively sweeps the working places.

**§ 57.8531 Construction and maintenance of ventilation doors.**

Ventilation doors shall be—

- (a) Substantially constructed;
- (b) Covered with fire-retardant material, if constructed of wood;
- (c) Maintained in good condition;
- (d) Self-closing, if manually operated; and
- (e) Equipped with audible or visual warning devices, if mechanically operated.

**§ 57.8532 Opening and closing ventilation doors.**

When ventilation control doors are opened as a part of the normal mining cycle, they shall be closed as soon as possible to re-establish normal ventilation to working places.

**§ 57.8534 Shutdown or failure of auxiliary fans.**

(a) Auxiliary fans installed and used to ventilate the active workings of the mine shall be operated continuously while persons are underground in the active workings, *except* for scheduled production-cycle shutdowns or planned or scheduled fan maintenance or fan adjustments where air quality is maintained in compliance with the applicable standards of subpart D of this part, and all persons underground in the affected areas are advised in advance of such scheduled or planned fan shutdowns, maintenance, or adjustments.

(b) In the event of auxiliary fan failure due to malfunction, accident, power failure, or other such unplanned or unscheduled event:

(1) The air quality in the affected active workings shall be tested at least within 2 hours of the discovery of the fan failure, and at least every 4 hours thereafter by a competent person for compliance with the requirements of the applicable standards of subpart D of this part until normal ventilation is restored, or

(2) All persons, except those working on the fan, shall be withdrawn, the ventilation shall be restored to normal and the air quality in the affected active workings shall be tested by a competent person to assure that the air quality meets the requirements of the

**§ 57.8535**

standards in subpart D of this part, before any other persons are permitted to enter the affected active workings.

**§ 57.8535 Seals.**

Seals shall be provided with a means for checking the quality of air behind the seal and a means to prevent a water head from developing unless the seal is designed to impound water.

**Subpart H—Loading, Hauling, and Dumping**

SOURCE: 53 FR 32526, Aug. 25, 1988, unless otherwise noted.

TRAFFIC SAFETY

**§ 57.9100 Traffic control.**

To provide for the safe movement of self-propelled mobile equipment—

- (a) Rules governing speed, right-of-way, direction of movement, and the use of headlights to assure appropriate visibility, shall be established and followed at each mine; and
- (b) Signs or signals that warn of hazardous conditions shall be placed at appropriate locations at each mine.

**§ 57.9101 Operating speeds and control of equipment.**

Operators of self-propelled mobile equipment shall maintain control of the equipment while it is in motion. Operating speeds shall be consistent with conditions of roadways, tracks, grades, clearance, visibility, and traffic, and the type of equipment used.

**§ 57.9102 Movement of independently operating rail equipment.**

Movement of two or more pieces of rail equipment operating independently on the same track shall be controlled for safe operation.

**§ 57.9103 Clearance on adjacent tracks.**

Railcars shall not be left on side tracks unless clearance is provided for traffic on adjacent tracks.

**§ 57.9104 Railroad crossings.**

Designated railroad crossings shall be posted with warning signs or signals, or shall be guarded when trains are passing. These crossings shall also be planked or filled between the rails.

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**§ 57.9160 Train movement during shift changes.**

During shift changes, the movement of underground trains carrying rock or material shall be limited to areas where the trains do not present a hazard to persons changing shifts.

TRANSPORTATION OF PERSONS AND MATERIALS

**§ 57.9200 Transporting persons.**

Persons shall not be transported—

(a) In or on dippers, forks, clamshells, or buckets except shaft buckets during shaft-sinking operations or during inspection, maintenance and repair of shafts.

(b) In beds of mobile equipment or railcars, unless—

(1) Provisions are made for secure travel, and

(2) Means are taken to prevent accidental unloading if the equipment is provided with unloading devices;

(c) On top of loads in mobile equipment;

(d) Outside cabs, equipment operators' stations, and beds of mobile equipment, except when necessary for maintenance, testing, or training purposes, and provisions are made for secure travel. This provision does not apply to rail equipment.

(e) Between cars of trains, on the leading end of trains, on the leading end of a single railcar, or in other locations on trains that expose persons to hazards from train movement.

(1) This paragraph does not apply to car droppers if they are secured with safety belts and lines which prevent them from falling off the work platform.

(2) Brakemen and trainmen are prohibited from riding between cars of moving trains but may ride on the leading end of trains or other locations when necessary to perform their duties;

(f) To and from work areas in overcrowded mobile equipment;

(g) In mobile equipment with materials or equipment unless the items are secured or are small and can be carried safely by hand without creating a hazard to persons; or