§49.13 Alternative mine rescue capability for small and remote mines.

(a) If an underground mine is small and remote, an operator may provide for an alternative mine rescue capability consistent with statutory requirements. For the purposes of this subpart only, consideration for small and remote shall be given where the total underground employment of the operator's mine and any surrounding mine(s) within 1 hour ground travel time of the operator's mine is less than 36.

(b) An application for alternative mine rescue capability shall be submitted to the District Manager for the district in which the mine is located for review and approval.

(c) Each application for an alternative mine rescue capability shall contain:

1. The number of miners employed underground at the mine on each shift;
2. The location of the designated mine rescue station serving the mine;
3. The total underground employment of mines within 1 hour ground travel time of the operator's mine;
4. The operator's mine fire, ground, and roof control history;
5. The operator's established escape and evacuation plan;
6. A statement by the operator evaluating the usefulness of additional refuge chambers to supplement those which may exist;
7. A statement by the operator as to the number of miners willing to serve on a mine rescue team;
8. The operator's alternative plan for assuring that a suitable mine rescue capability is provided at all times when miners are underground; and
9. Other relevant information about the operator's mine which may be requested by the District Manager.

(d) A copy of the operator's application shall be posted at the mine. Where a miners' representative has been designated, the operator shall also provide the representative with a copy of the application.

(e) In determining whether to approve an application for alternative compliance, the District Manager shall consider:

1. The individual circumstances of the small and remote mine;
2. Comments submitted by, or on behalf of, any affected miner; and
3. Whether the alternative mine rescue plan provides a suitable rescue capability at the operator's mine.

(f) Where alternative compliance is approved by MSHA, the operator shall adopt the alternative plan and post a copy of the approved plan (with appropriate MSHA mine emergency telephone numbers) at the mine for the miners' information. Where a miners' representative has been designated, the
§ 49.14 Mine rescue station.

(a) Every operator of an underground mine shall designate, in advance, the location of the mine rescue station serving the mine.

(b) Mine rescue stations are to provide a centralized storage location for rescue equipment. This centralized storage location may be either at the mine site, affiliated mines, or a separate mine rescue structure.

(c) Mine rescue stations shall provide a proper storage environment to assure equipment readiness for immediate use.

(d) Authorized representatives of the Secretary shall have the right of entry to inspect any designated mine rescue station.

§ 49.15 Mine rescue station.

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(d) Authorized representatives of the Secretary shall have the right of entry to inspect any designated mine rescue station.

§ 49.16 Equipment and maintenance requirements.

(a) Each mine rescue station shall be provided with at least the following equipment. Mine rescue stations serving underground anthracite coal mines, which have no electrical equipment at the face or working section, shall have at least the amount of equipment appropriate for the number of mine rescue team members.

1. Twelve self-contained breathing apparatus, each with a minimum of 4 hours capacity (approved by MSHA and NIOSH under 42 CFR part 84, subpart H), and any necessary equipment for testing such breathing apparatus.

2. A portable supply of liquid air, liquid oxygen, pressurized oxygen, or oxygen generating chemicals, and carbon dioxide absorbent chemicals, as applicable to the supplied breathing apparatus and sufficient to sustain each team for 8 hours while using the breathing apparatus during rescue operations.

3. Two extra, fully-charged oxygen bottles for every six self-contained breathing apparatus.

4. One oxygen pump or a cascading system, compatible with the supplied breathing apparatus.

5. Twelve permissible cap lamps and a charging rack.

6. Four gas detectors appropriate for each type of gas that may be encountered at the mines served. Gas detectors must measure concentrations of methane from 0.0 percent to 100 percent of volume, oxygen from 0.0 percent to at least 20 percent of volume, and carbon monoxide from 0.0 parts per million to at least 9,999 parts per million.

7. [Reserved]

8. One portable mine rescue communication system (approved under part 23 of this title) or a sound-powered communication system.

(i) The wires or cable to the communication system shall be of sufficient tensile strength to be used as a manual communication system.

(ii) These communication systems shall be at least 1,000 feet in length.

9. Necessary spare parts and tools for repairing the breathing apparatus and communication system.

(b) Mine rescue apparatus and equipment shall be maintained in a manner that will ensure readiness for immediate use.

1. A person trained in the use and care of breathing apparatus shall inspect and test the apparatus at intervals not exceeding 30 days and shall certify by signature and date that the inspections and tests were done.