

receiving power from resistance grounded systems, separate connections shall be used.

**§ 77.903 Disconnecting devices.**

Disconnecting devices shall be installed in circuits supplying power to portable or mobile equipment and shall provide visual evidence that the power is disconnected.

**§ 77.904 Identification of circuit breakers.**

Circuit breakers shall be labeled to show which circuits they control unless identification can be made readily by location.

**§ 77.905 Connection of single-phase loads.**

Single-phase loads shall be connected phase-to-phase in resistance grounded systems.

**§ 77.906 Trailing cables supplying power to low-voltage mobile equipment; ground wires and ground check wires.**

On and after September 30, 1971, all trailing cables supplying power to portable or mobile equipment from low-voltage three-phase resistance grounded power systems shall contain one or more ground conductors having a cross-sectional area of not less than one-half the power conductor. Such trailing cables shall include an insulated conductor for the ground continuity check circuit except where a no less effective device has been approved by the Secretary to assure continuity. Splices made in low-voltage trailing cables shall provide continuity of all components.

**Subpart K—Ground Control**

**§ 77.1000 Highwalls, pits and spoil banks; plans.**

Each operator shall establish and follow a ground control plan for the safe control of all highwalls, pits and spoil banks to be developed after June 30, 1971, which shall be consistent with prudent engineering design and will insure safe working conditions. The mining methods employed by the operator shall be selected to insure highwall and spoil bank stability.

**§ 77.1000-1 Filing of plan.**

The operator shall file a copy of such plan, and revisions thereof, with the MSHA Coal Mine Safety and Health district office for the district in which the mine is located, and shall identify the name and location of the mine; the Mine Safety and Health Administration identification number if known; and the name and address of the mine operator.

(Pub. L. No. 96-511, 94 Stat. 2812 (44 U.S.C. 3501 *et seq.*)

[36 FR 9364, May 22, 1971, as amended at 60 FR 33723, June 29, 1995; 71 FR 16669, Apr. 3, 2006]

**§ 77.1001 Stripping; loose material.**

Loose hazardous material shall be stripped for a safe distance from the top of pit or highwalls, and the loose unconsolidated material shall be sloped to the angle of repose, or barriers, baffle boards, screens, or other devices be provided that afford equivalent protection.

**§ 77.1002 Box cuts; spoil material placement.**

When box cuts are made, necessary precautions shall be taken to minimize the possibility of spoil material rolling into the pit.

**§ 77.1003 Benches.**

To insure safe operation, the width and height of benches shall be governed by the type of equipment to be used and the operation to be performed.

**§ 77.1004 Ground control; inspection and maintenance; general.**

(a) Highwalls, banks, benches, and terrain sloping into the working areas shall be examined after every rain, freeze, or thaw before men work in such areas, and such examination shall be made and recorded in accordance with § 77.1713.

(b) Overhanging highwalls and banks shall be taken down and other unsafe ground conditions shall be corrected promptly, or the area shall be posted.

**§ 77.1005 Scaling highwalls; general.**

(a) Hazardous areas shall be scaled before any other work is performed in the hazardous area. When scaling of