

**§ 77.902-2**

**§ 77.902-2 Approved ground check systems not employing pilot check wires.**

Ground check systems not employing pilot check wires shall be approved by the Secretary only after it has been determined that the system includes a fail safe design causing the circuit breaker to open when ground continuity is broken.

**§ 77.902-3 Attachment of ground conductors and ground check wires to equipment frames; use of separate connections.**

In grounding the frames of stationary, portable, or mobile equipment 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

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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 Coal Mine Health and Safety District of Subdistrict office for the District or Subdistrict 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]

**§ 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.