

(4) Tamping Bars; Leg Wires; Firing From Circuit. Only wooden tamping bars shall be used to charge a hole. Leg wires of electric detonators shall be kept shunted or the ends twisted together until ready to connect to the firing cable. No shot may be fired from the power or signal circuit while workers are in the mine.

(5) Testing Roof and Faces. Roof and faces of working places shall be tested before and after blasting.

(6) Warnings. Ample warning shall be given before any shot is fired, and care shall be taken to make sure every person is in the clear. Workers shall be removed from any adjoining working place when there is danger of a shot blowing through.

(7) Open Shots. An adobe, mudcap, or other open, unconfined shot may not be fired in any mine.

(m) Blasting cable shall be:

(1) Well insulated and as long as necessary to permit the shot firer to get in a safe place around a corner;

(2) Short-circuited at the battery end until ready to attach to the blasting unit;

(3) Staggered as to length or kept well separated when attached to the detonator leg wire; and

(4) Kept clear of power wire and any other possible source of active or stray current. Power wire in the face region shall be de-energized during any charging and blasting operation.

(n) (1) Waiting Period. If a misfire occurs with electric detonators, there shall be a waiting period of at least five minutes before anyone returns to the shot. After the failure, the blasting cable shall be disconnected from the source of power and the battery end short-circuited before electric connections are examined.

(2) Removal of Explosives. Explosives shall be removed by firing a separate charge at least two feet away from, and parallel to, the misfired charge, by washing the stemming and the charge from the borehole with water, or by inserting and firing a new primer after the stemming has been washed out.

(3) Recovery of Undetonated Explosives; Supervision. A careful search of the working place, and, if necessary, of the coal after it reaches the tipple, shall be made after blasting a misfired hole in order to recover any undetonated explosive. The mine foreman or his designee personally shall supervise the handling of a misfired shot.

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