§ 75.1318 Loading boreholes.
(a) Explosives shall be loaded by a qualified person or a person working in the presence of and under the direction of a qualified person.
(b) When boreholes are being loaded, no other work except that necessary to protect persons shall be done in the working place or other area where blasting is to be performed.
(c) When loading boreholes drilled at an angle of 45 degrees or greater from the horizontal in solid rock or loading long holes drilled upward in anthracite mines—
   (1) The first cartridge in each borehole shall be the primer cartridge with the end of the cartridge containing the detonator facing the back of the borehole; and
   (2) The explosive cartridges shall be loaded in a manner that provides contact between each cartridge in the borehole.
(d) When loading other boreholes—
   (1) The primer cartridge shall be the first cartridge loaded in the borehole;
   (2) The end of the cartridge in which the detonator is inserted shall face the back of the borehole; and
   (3) The primer cartridge and other explosives shall be pushed to the back of the borehole in a continuous column with no cartridge being deliberately crushed or deformed.
(e) An explosive shall not be loaded into a borehole if it is damaged, deteriorated or if the cartridge is incompletely filled.
(f) Explosives of different brands, types or cartridge diameters shall not be loaded in the same borehole.
(g) Only nonconductive, nonsparking tamping poles shall be used for loading and tamping boreholes. The use of nonsparking connecting devices for extendable tamping poles is permitted.

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§ 75.1319 Weight of explosives permitted in boreholes in bituminous and lignite mines.
(a) The total weight of explosives loaded in any borehole in bituminous and lignite mines shall not exceed 3 pounds except when blasting solid rock in its natural deposit.
(b) The total weight of explosives loaded in a borehole less than 6 feet deep in bituminous and lignite mines shall be reduced by ½ pound for each foot of borehole less than 6 feet.

§ 75.1320 Multiple-shot blasting.
(a) No more than 20 boreholes shall be fired in a round unless permitted in writing by the District Manager under §75.1321.
(b) Instantaneous detonators shall not be used in the same circuit with delay detonators in any underground coal mine.
(c) In bituminous and lignite mines, only detonators with delay periods of 1,000 milliseconds or less shall be used.
(d) When blasting in anthracite mines, each borehole in a round shall be initiated in sequence from the opener hole or holes.
(e) Arrangement of detonator delay periods for bituminous and lignite mines shall be as follows:
   (1) When blasting cut coal—
      (i) The first shot or shots fired in a round shall be initiated in the row nearest the kerf or the row or rows nearest the shear; and
      (ii) After the first shot or shots, the interval between the designated delay periods of successive shots shall be at least 50 milliseconds but not more than 100 milliseconds.
   (2) When blasting coal off the solid—
      (i) Each shot in the round shall be initiated in sequence from the opener hole or holes; and
      (ii) After the first shot or shots, the interval between the designated delay periods of successive shots shall be at least 50 milliseconds but not more than 100 milliseconds.

§ 75.1321 Permits for firing more than 20 boreholes and for use of nonpermissible blasting units.
(a) Applications for permits for firing more than 20 boreholes in a round and for the use of nonpermissible blasting