§ 56.6406 Duration of current flow.

If any part of a blast is connected in parallel and is to be initiated from powerlines or lighting circuits, the time of current flow shall be limited to a maximum of 25 milliseconds. This can be accomplished by incorporating an arcing control device in the blasting circuit or by interrupting the circuit with an explosive device attached to one or both lead lines and initiated by a 25-millisecond delay electric detonator.

§ 56.6407 Circuit testing.

A blasting galvanometer or other instrument designed for testing blasting circuits shall be used to test each of the following:

(a) Continuity of each electric detonator in the blasthole prior to stemming and connection to the blasting line.

(b) Resistance of individual series or the resistance of multiple balanced series to be connected in parallel prior to their connection to the blasting line.

(c) Continuity of blasting lines prior to the connection of electric detonator series.

(d) Total blasting circuit resistance prior to connection to the power source.

§ 56.6500 Damaged initiating material.

A visual check of the completed circuit shall be made to ensure that the components are properly aligned and connected. Safety fuse, igniter cord, detonating cord, shock or gas tubing, and similar material which is kinked, bent sharply, or damaged shall not be used.

§ 56.6501 Nonelectric initiation systems.

(a) When the nonelectric initiation system uses shock tube—

(1) Connections with other initiation devices shall be secured in a manner which provides for uninterrupted propagation;

(b) When firing with safety fuse ignited individually using handheld lighters, the safety fuse shall be of lengths which provide at least the minimum burning time for a particular size round, as specified in the following table:

<table>
<thead>
<tr>
<th>Number of holes in a round</th>
<th>Minimum burning time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 min. 1</td>
</tr>
<tr>
<td>2–5</td>
<td>2 min. 40 sec.</td>
</tr>
<tr>
<td>6–10</td>
<td>3 min. 20 sec.</td>
</tr>
</tbody>
</table>

§ 56.6502 Safety fuse.

(a) The burning rate of each spool of safety fuse to be used shall be measured, posted in locations which will be conspicuous to safety fuse users, and brought to the attention of all persons involved with the blasting operation.

(b) When firing with safety fuse ignited individually using handheld lighters, the safety fuse shall be of lengths which provide at least the minimum burning time for a particular size round, as specified in the following table.