

of the foreman at such mine and filed with the district mine inspector for his official use.

SEC. 112. At every mine where electricity is used for power, there shall be employed a competent mine electrician who shall have full charge of the electric apparatus and system in and about such mine, but who shall be subject to the authority of the official in charge of such mine.

SEC. 113. All electric apparatus shall be of approved type, strongly designed and constructed and of ample capacity for the purpose intended or to which it may be put; all parts carrying electric current shall be effectually insulated against the conditions of such intended service; and the installation thereof shall be so protected that hazards to life and property may be minimized.

SEC. 114. Ample and well-constructed switches and other protective devices shall be provided upon all circuits, and especially upon branch circuits, which shall be protected against electrical leakage and extraneous damage, and all switches so devised that accidental closing or interference by unauthorized persons may be prevented or forestalled; and in all circuits where the load may suddenly approach or exceed the safe capacity of the circuit or apparatus, circuit interrupting devices shall be installed.

SEC. 115. Electric current of high voltage may be transmitted underground only when the circuit is carried inside metallic sheaths or armor, such sheaths or armor to be permanently grounded; and such current may be applied only to transformers or motors in which the high voltage windings are a part of the stationary element thereof.

SEC. 116. Explosives shall not be hauled or transported in the vicinity of live electric apparatus or circuits unless such explosives are placed in an insulated, covered box; nor placed upon an electric locomotive at any time; nor temporarily placed nor stored near electric currents or equipment; and when explosives are carried by hand, the utmost precautions shall be taken to avoid contact with electric apparatus or circuits.

SEC. 117. Especial care shall be exercised along haulage ways and in any portion of a mine where persons or animals may come into contact with electric apparatus or circuits, and in all trolley circuits and transmission lines, under which persons or animals must pass properly to install and protect the same.