

ELECTRICITY

110. Surface Transmission Lines. Overhead high-potential power lines shall be placed at least 15 feet above the ground and 20 feet above driveways and haulageways, shall be installed on insulators, and shall be supported and guarded to prevent contact with other circuits.

Overhead power circuits shall be protected against lightning and voltage surges, and high-potential power lines shall be protected adequately by circuit breakers, fuses, or both.

Electric wiring in surface buildings shall be installed so as to present minimum fire and contact hazards.

111. Transformer Stations. (a) Unless surface transformers are isolated by elevation (8 feet or more above the ground), they shall be enclosed in a transformer house or surrounded by a suitable fence at least 6 feet high. If the enclosure is of metal, it shall be grounded effectively. The gate or door to the enclosure shall be kept locked at all times, unless authorized persons are present.

(b) Surface transformers containing flammable oil and installed where they present a fire hazard (near mine openings or in or near combustible buildings) shall be provided with means to drain or to confine the oil in event of rupture of the transformer casing.

(c) Transformers ordered after the effective date of this Act, both permanent and portable, for use underground shall be air-cooled or non-flammable-liquid cooled.

(d) Underground stations containing transformers filled with flammable oil shall be provided with door sills, or their equivalent, that will confine the oil if leakage or explosion occurs.

114. DANGER—HIGH VOLTAGE signs shall be posted conspicuously on all transformer enclosures, high-potential switchboards, and other high-potential installations.

115. Substations and Switchboards. (a) Surface and underground substations shall be kept free from refuse, and metal containers shall be provided for oily waste.

(b) Switchboards installed after the effective date of this Act shall be located so that ample room will be provided between the switchboard and passageways or lanes of travel and shall have an entrance at each end to permit authorized persons to inspect, adjust, or repair apparatus