

they shall be rebonded within three working shifts.

**§ 56.12045 Overhead powerlines.**

Overhead high-potential powerlines shall be installed as specified by the National Electrical Code.

**§ 56.12047 Guy wires.**

Guy wires of poles supporting high-voltage transmission lines shall meet the requirements for grounding or insulator protection of the National Electrical Safety Code, part 2, entitled "Safety Rules for the Installation and Maintenance of Electric Supply and Communication Lines" (also referred to as National Bureau of Standards Handbook 81, November 1, 1961) and Supplement 2 thereof issued March 1968, which are hereby incorporated by reference and made a part hereof. These publications and documents may be obtained from the National Institute of Science and Technology, 100 Bureau Drive, Stop 3460, Gaithersburg, MD 20899-3460. Telephone: 301-975-6478 (not a toll free number); <http://ts.nist.gov/nvl>; or from the Government Printing Office, Information Dissemination (Superintendent of Documents), P.O. Box 371954, Pittsburgh, PA 15250-7954; Telephone: 866-512-1800 (toll free) or 202-512-1800, <http://bookstore.gpo.gov>, or may be examined in any Metal and Nonmetal Mine Safety and Health District Office of the Mine Safety and Health Administration.

[50 FR 4054, Jan. 29, 1985, as amended at 60 FR 35695, July 11, 1995; 71 FR 16667, Apr. 3, 2006]

**§ 56.12048 Communication conductors on power poles.**

Telegraph, telephone, or signal wires shall not be installed on the same crossarm with power conductors. When carried on poles supporting powerlines, they shall be installed as specified by the National Electrical Code.

**§ 56.12050 Installation of trolley wires.**

Trolley wires shall be installed at least seven feet above rails where height permits, and aligned and supported to suitably control sway and sag.

**§ 56.12053 Circuits powered from trolley wires.**

Ground wires for lighting circuits powered from trolley wires shall be connected securely to the ground-return circuit.

**§ 56.12065 Short circuit and lightning protection.**

Powerlines, including trolley wires, and telephone circuits shall be protected against short circuits and lightning.

**§ 56.12066 Guarding trolley wires and bare powerlines.**

Where metallic tools or equipment can come in contact with trolley wires or bare powerlines, the lines shall be guarded or deenergized.

**§ 56.12067 Installation of transformers.**

Transformers shall be totally enclosed, or shall be placed at least 8 feet above the ground, or installed in a transformer house, or surrounded by a substantial fence at least 6 feet high and at least 3 feet from any energized parts, casings, or wiring.

**§ 56.12068 Locking transformer enclosures.**

Transformer enclosures shall be kept locked against unauthorized entry.

**§ 56.12069 Lightning protection for telephone wires and ungrounded conductors.**

Each ungrounded power conductor or telephone wire that leads underground and is directly exposed to lightning shall be equipped with suitable lightning arrestors of approved type within 100 feet of the point where the circuit enters the mine. Lightning arrestors shall be connected to a low resistance grounding medium on the surface and shall be separated from neutral grounds by a distance of not less than 25 feet.

**§ 56.12071 Movement or operation of equipment near high-voltage power lines.**

When equipment must be moved or operated near energized high-voltage powerlines (other than trolley lines) and the clearance is less than 10 feet,