§ 57.22308 Methane monitors (III mines).

(a) Methane monitors shall be installed on continuous mining machines and longwall mining systems.
(b) The monitors shall—
(1) Give warning at 1.0 percent methane;
(2) Automatically deenergize electrical equipment, except power to monitoring equipment determined by MSHA to be intrinsically safe under 30 CFR part 18, and prevent starting such equipment when methane levels reach 1.5 percent; and
(3) Automatically deenergize the equipment when power to a sensor is interrupted.
(c) Sensing units of monitors shall be positioned at a location which provides for the most effective measurement of methane.

§ 57.22309 Methane monitors (V-A mines).

(a) Methane monitors shall be installed on continuous mining machines used in or beyond the last open cross-cut.
(b) The monitors shall—
(1) Give warning at 1.0 percent methane.
(2) Automatically deenergize electrical equipment, except power to monitoring equipment determined by MSHA to be intrinsically safe under 30 CFR part 18, and prevent starting such equipment when methane levels reach 1.5 percent; and
(3) Automatically deenergize the equipment when power to a sensor is interrupted.
(c) Sensing units of monitors shall be positioned at a location which provides for the most effective measurement of methane.

§ 57.22310 Electrical cables (I-C mines).

Electrical cables used to power submersible sump pumps shall be accepted or approved by MSHA as flame resistant, or be installed in continuous metal conduit or metal pipe. The ends of such conduit or pipe shall be sealed to prevent entry of explosive gas or dust.

[57 FR 61223, Dec. 23, 1992]