(iii) Identification of components or features of the product that are critical to the safety of the product; and
(iv) All documentation, including drawings and specifications, as submitted to the independent laboratory by the applicant and as required by this part.

(b) MSHA will consider the application and inspect the drawings and parts to determine whether it will be necessary to make any tests.

(c) If no tests are necessary, and the change meets the requirements, the applicant will be officially advised by MSHA that his original approval has been extended to include the change.

(d) If tests are judged necessary, the applicant will be advised of the material that will be required. In this case extension of approval will be granted upon satisfactory completion of the tests and full compliance with the requirements.


**PART 27—METHANE-MONITORING SYSTEMS**

**Subpart A—General Provisions**

Sec.
27.1 Purpose.
27.2 Definitions.
27.3 Consultation.
27.4 Application procedures and requirements.
27.5 Letter of certification.
27.6 Certification of components.
27.7 Certification plate or label.
27.8 [Reserved]
27.9 Date for conducting tests.
27.10 Conduct of investigations, tests, and demonstrations.
27.11 Extension of certification.
27.12 Withdrawal of certification.

Subpart B—Construction and Design Requirements

27.20 Quality of material, workmanship, and design.
27.21 Methane-monitoring system.
27.22 Methane detector component.
27.23 Automatic warning device.
27.24 Power-shutoff component.

Subpart C—Test Requirements

27.30 Inspection.
27.31 Testing methods.
27.32 Tests to determine performance of the system.
27.33 Tests to determine explosion-proof construction.
27.34 Test for intrinsic safety.
27.35 Tests to determine life of critical components and subassemblies.
27.36 Test for adequacy of electrical insulation and clearances.
27.37 Tests to determine adequacy of safety devices for bulbs.
27.38 Tests to determine adequacy of windows and lenses.
27.39 Tests to determine resistance to vibration.
27.40 Test to determine resistance to dust.
27.41 Tests to determine resistance to moisture.

**AUTHORITY:** 30 U.S.C. 957, 961.

**SOURCE:** 31 FR 10607, Aug. 9, 1966, unless otherwise noted.

**Subpart A—General Provisions**

§ 27.1 Purpose.

The regulations in this part set forth the requirements for methane-monitoring systems or components thereof to procure certification for their incorporation in or with permissible equipment that is used in gassy mines, tunnels, or other underground workings and procedures for applying for such certification.


§ 27.2 Definitions.

As used in this part:
(a) MSHA means the United States Department of Labor, Mine Safety and Health Administration.
(b) Applicant means an individual, partnership, company, corporation, association, or other organization that designs, manufactures, or assembles and that seeks certification or preliminary testing of a methane-monitoring system or component.
(c) Methane-monitoring system means a complete assembly of one or more methane detectors and all other components required for measuring and signalling the presence of methane in the atmosphere of a mine, tunnel, or other underground workings, and shall include a power-shutoff component.
§ 27.3 Consultation.

By appointment, applicants or their representatives may visit the U.S. Department of Labor, Mine Safety and Health Administration, Approval and Certification Center, 765 Technology Drive, Triadelphia, WV 26059, to discuss with qualified MSHA personnel proposed methane-monitoring systems to be submitted in accordance with the regulations of this part. No charge is made for such consultation and no written report thereof will be made to the applicant.


1 Explosion-proof components or subassemblies shall be constructed in accordance with the requirements of Part 18 of this subchapter.