



Federal Mine Safety & Health Act of 1977,
Public Law 91-173,
as amended by Public Law 95-164*

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**This document was prepared within the Office of the Solicitor, Division of Mine Health and Safety, Department of the Interior, and reflects changes to the Federal Coal Mine Health and Safety Act of 1969 [Pub. L. 91-173]. The changes are based upon the Federal Mine Safety and Health Amendments Act of 1977 [Pub. L. 95-164]. Do not use this document as a legal citation to authority.*

**Federal Mine Safety & Health Act of 1977,
Public Law 91-173,
as amended by Public Law 95-164**

An Act

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That this Act may be cited as the "Federal Mine Safety and Health Act of 1977".

FINDINGS AND PURPOSE

SEC. 2. Congress declares that--

- (a) the first priority and concern of all in the coal or other mining industry must be the health and safety of its most precious resource--the miner;
- (b) deaths and serious injuries from unsafe and unhealthful conditions and practices in the coal or other mines cause grief and suffering to the miners and to their families;
- (c) there is an urgent need to provide more effective means and measures for improving the working conditions and practices in the Nation's coal or other mines in order to prevent death and serious physical harm, and in order to prevent occupational diseases originating in such mines;
- (d) the existence of unsafe and unhealthful conditions and practices in the Nation's coal or other mines is a serious impediment to the future growth of the coal or other mining industry and cannot be tolerated;
- (e) the operators of such mines with the assistance of the miners have the primary responsibility to prevent the existence of such conditions and practices in such mines;
- (f) the disruption of production and the loss of income to operators and miners as a result of coal or other mine accidents or occupationally caused diseases unduly impedes and burdens commerce; and
- (g) it is the purpose of this Act (1) to establish interim mandatory health and safety standards and to direct the Secretary of Health, Education, and Welfare and the Secretary of Labor to develop and promulgate improved mandatory health or safety standards to protect the health and safety of the Nation's coal or other miners; (2) to require that each operator of a coal or other mine and every miner in such mine comply with such standards; (3) to cooperate with, and provide assistance to, the States in the development and enforcement of effective State coal or other mine health and safety programs; and (4) to improve and expand, in cooperation with the States and the coal or other mining industry, research and development and training programs aimed at preventing coal or other mine accidents and occupationally caused diseases in the industry.

DEFINITIONS

SEC. 3. For the purpose of this Act, the term--

- (a) "Secretary" means the Secretary of Labor or his delegate;
- (b) "commerce" means trade, traffic, commerce, transportation, or communication among the several States, or between a place in a State and any place outside thereof, or within the District of Columbia or a possession of the United States, or between points in the same State but through a point outside thereof;
- (c) "State" includes a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, American Samoa, Guam, and the Trust Territory of the Pacific Islands;
- (d) "operator" means any owner, lessee, or other person who operates, controls, or supervises a coal or other mine or any independent contractor performing services or construction at such mine;
- (e) "agent" means any person charged with responsibility for the operation of all or a part of a coal or other mine or the supervision of the miners in a coal or other mine;
- (f) "person" means any individual, partnership, association, corporation, firm, subsidiary of a corporation, or other organization;
- (g) "miner" means any individual working in a coal or other mine;
- (h)(1) "coal or other mine" means (A) an area of land from which minerals are extracted in nonliquid form or, if in liquid form, are extracted with workers underground, (B) private ways and roads appurtenant to such area, and (C) lands, excavations, underground passageways, shafts, slopes, tunnels and workings,

structures, facilities, equipment, machines, tools, or other property including impoundments, retention dams, and tailings ponds, on the surface or underground, used in, or to be used in, or resulting from, the work of extracting such minerals from their natural deposits in nonliquid form, or if in liquid form, with workers underground, or used in, or to be used in, the milling of such minerals, or the work of preparing coal or other minerals, and includes custom coal preparation facilities. In making a determination of what constitutes mineral milling for purposes of this Act, the Secretary shall give due consideration to the convenience of administration resulting from the delegation to one Assistant Secretary of all authority with respect to the health and safety of miners employed at one physical establishment;

(2) For purposes of titles II, III, and IV, "coal mine" means an area of land and all structures, facilities, machinery tools, equipment, shafts, slopes, tunnels, excavations, and other property, real or personal, placed upon, under, or above the surface of such land by any person, used in, or to be used in, or resulting from, the work of extracting in such area bituminous coal, lignite, or anthracite from its natural deposits in the earth by any means or method, and the work of preparing the coal so extracted, and includes custom coal preparation facilities;

(i) "work of preparing the coal" means the breaking, crushing, sizing, cleaning, washing, drying, mixing, storing and loading of bituminous coal, lignite, or anthracite, and such other work of preparing such coal as is usually done by the operator of the coal mine;

(j) "imminent danger" means the existence of any condition or practice in a coal or other mine which could reasonably be expected to cause death or serious physical harm before such condition or practice can be abated;

(k) "accident" includes a mine explosion, mine ignition, mine fire, or mine inundation, or injury to, or death of, any person;

(l) "mandatory health or safety standard" means the interim mandatory health or safety standards established by titles II and III of this Act, and the standards promulgated pursuant to title I of this Act;

(m) "Panel" means the Interim Compliance Panel established by this Act; and

(n) "Administration" means the Mine Safety and Health Administration in the Department of Labor.

(o) "Commission" means the Federal Mine Safety and Health Review Commission.

MINES SUBJECT TO ACT

SEC. 4. Each coal or other mine, the products of which enter commerce, or the operations or products of which affect commerce, and each operator of such mine, and every miner in such mine shall be subject to the provisions of this Act.

INTERIM COMPLIANCE PANEL

SEC. 5. (a) There is hereby established the Interim Compliance Panel, which shall be composed of five members as follows:

- (1) Assistant Secretary of Labor for Labor Standards, Department of Labor, or his delegate;
- (2) Director of the Bureau of Standards, Department of Commerce, or his delegate;
- (3) Administrator of Consumer Protection and Environmental Health Service, Department of Health, Education, and Welfare, or his delegate;
- (4) Director of the Bureau of Mines, Department of the Interior, or his delegate; and
- (5) Director of the National Science Foundation, or his delegate.

(b) Members of the Panel shall serve without compensation in, addition to that received in their regular employment, but shall be entitled to reimbursement for travel, subsistence, and other necessary expenses incurred by them in the performance of duties vested in the Panel.

(c) Notwithstanding any other provision of law, the Secretary of Health, Education, and Welfare, the Secretary of Commerce, the Secretary of the Interior, and the Secretary shall, upon request of the Panel, provide the Panel such personnel and other assistance as the Panel determines necessary to enable it to carry out its functions under this Act.

(d) Three members of the Panel shall constitute a quorum for doing business. All decisions of the Panel shall be by majority vote. The chairman of the Panel shall be selected by the members from among the membership

thereof.

(e) The Panel is authorized to appoint as many hearing examiners as are necessary for proceedings required to be conducted in accordance with the provisions of this Act. The provisions applicable to hearing examiners appointed under section 3105 of title 5 of the United States Code shall be applicable to hearing examiners appointed pursuant to this subsection.

(f)(1) It shall be the function of the Panel to carry out the duties imposed on it pursuant to this Act and to provide an opportunity for a public hearing, after notice, at the request of an operator of the affected coal mine or the representative of the miners of such mine. Any operator or representative of miners aggrieved by a final decision of the Panel may file a petition for review of such decision under section 106 of this Act. The provisions of this section shall terminate upon completion of the Panel's functions as set forth under this Act. Any hearing held pursuant to this subsection shall be of record and the Panel shall make findings of fact and shall issue a written decision incorporating its findings therein in accordance with section 554 of title 5 of the United States Code.

(2) The Panel shall make an annual report, in writing, to the Secretary for transmittal by him to the Congress concerning the achievement of its purposes, and any other relevant information (including any recommendations) which it deems appropriate.

TITLE I--GENERAL

MANDATORY SAFETY AND HEALTH STANDARDS

SEC. 101. (a) The Secretary shall by rule in accordance with procedures set forth in this section and in accordance with section 553 of title 5, United States Code (without regard to any reference in such section to sections 556 and 557 of such title), develop, promulgate, and revise as may be appropriate, improved mandatory health or safety standards for the protection of life and prevention of injuries in coal or other mines.

(1) Whenever the Secretary, upon the basis of information submitted to him in writing by an interested person, a representative of any organization of employers or employees, a nationally recognized standards-producing organization, the Secretary of Health, Education, and Welfare, the National Institute for Occupational Safety and Health, or a State or political subdivision, or on the basis of information developed by the Secretary or otherwise available to him, determines that a rule should be promulgated in order to serve the objectives of this Act, the Secretary may request the recommendation of an advisory committee appointed under section 102(c). The Secretary shall provide such an advisory committee with any proposals of his own or of the Secretary of Health, Education, and Welfare, together with all pertinent factual information developed by the Secretary or the Secretary of Health, Education, and Welfare, or otherwise available, including the results of research, demonstrations, and experiments. An advisory committee shall submit to the Secretary its recommendations regarding the rule to be promulgated within 60 days from the date of its appointment or within such longer or shorter period as may be prescribed by the Secretary, but in no event for a period which is longer than 180 days. When the Secretary receives a recommendation, accompanied by appropriate criteria, from the National Institute for Occupational Safety and Health that a rule be promulgated, modified, or revoked, the Secretary must, within 60 days after receipt thereof, refer such recommendation to an advisory committee pursuant to this paragraph, or publish such as a proposed rule pursuant to paragraph (2), or publish in the Federal Register his determination not to do so, and his reasons therefor. The Secretary shall be required to request the recommendations of an advisory committee appointed under section 102(c) if the rule to be promulgated is, in the discretion of the Secretary which shall be final, new in effect or application and has significant economic impact.

(2) The Secretary shall publish a proposed rule promulgating, modifying, or revoking a mandatory health or safety standard in the Federal Register. If the Secretary determines that a rule should be proposed and in connection therewith has appointed an advisory committee as provided by paragraph (1), the Secretary shall publish a proposed rule, or the reasons for his determination not to publish such rule, within 60 days following the submission of the advisory committee's recommendation or the expiration of the period of time prescribed by the Secretary in such submission. In either event, the Secretary shall afford interested persons a period of 30 days after any such publication to submit written data or comments on the proposed rule. Such comment period may be extended by the Secretary upon a finding of good cause, which the Secretary shall publish in the Federal Register. Publication shall include the text of such rules proposed in their entirety, a comparative text of

the proposed changes in existing rules, and shall include a comprehensive index to the rules, cross-referenced by subject matter.

(3) On or before the last day of the period provided for the submission of written data or comments under paragraph (2), any interested person may file with the Secretary written objections to the proposed mandatory health or safety standard, stating the grounds therefor and requesting a public hearing on such objections. Within 60 days after the last day for filing such objections, the Secretary shall publish in the Federal Register a notice specifying the mandatory health or safety standard to which objections have been filed and a hearing requested, and specifying a time and place for such hearing. Any hearing under this subsection for the purpose of hearing relevant information shall commence within 60 days after the date of publication of the notice of hearing. Hearings required by this subsection shall be conducted by the Secretary, who may prescribe rules and make rulings concerning procedures in such hearings to avoid unnecessary cost or delay. Subject to the need to avoid undue delay, the Secretary shall provide for procedures that will afford interested parties the right to participate in the hearing, including the right to present oral statements and to offer written comments and data. The Secretary may require by subpoena the attendance of witnesses and the production of evidence in connection with any proceeding initiated under this section. If a person refuses to obey a subpoena under this subsection, a United States district court within the jurisdiction of which a proceeding under this subsection is conducted may, upon petition by the Secretary, issue an order requiring compliance with such subpoena. A transcript shall be taken of any such hearing and shall be available to the public.

(4)(A) Within 90 days after certification of the record of the hearing held pursuant to paragraph (3), the Secretary shall by rule promulgate, modify, or revoke such mandatory health or safety standards, and publish his reasons therefor.

(B) In the case of a proposed mandatory health or safety standard to which objections requesting a public hearing have not been filed, the Secretary, within 90 days after the period for filing such objections has expired, shall by rule promulgate, modify, or revoke such mandatory standards, and publish his reasons therefor.

(C) In the event the Secretary determines that a proposed mandatory health or safety standard should not be promulgated he shall, within the times specified in subparagraphs (A) and (B) publish his reasons for his determination.

(5) Any mandatory health or safety standard promulgated as a final rule under this section shall be effective upon publication in the Federal Register unless the Secretary specifies a later date.

(6)(A) The Secretary, in promulgating mandatory standards dealing with toxic materials or harmful physical agents under this subsection, shall set standards which most adequately assure on the basis of the best available evidence that no miner will suffer material impairment of health or functional capacity even if such miner has regular exposure to the hazards dealt with by such standard for the period of his working life. Development of mandatory standards under this subsection shall be based upon research, demonstrations, experiments, and such other information as may be appropriate. In addition to the attainment of the highest degree of health and safety protection for the miner, other considerations shall be the latest available scientific data in the field, the feasibility of the standards, and experience gained under this and other health and safety laws. Whenever practicable, the mandatory health or safety standard promulgated shall be expressed in terms of objective criteria and of the performance desired.

(B) The Secretary of Health, Education, and Welfare, as soon as possible after the date of enactment of the Federal Mine Safety and Health Amendments Act of 1977 but in no event later than 18 months after such date and on a continuing basis thereafter, shall, for each toxic material or harmful physical agent which is used or found in a mine, determine whether such material or agent is potentially toxic at the concentrations in which it is used or found in a mine. The Secretary of Health, Education, and Welfare shall submit such determinations with respect to such toxic substances or harmful physical agents to the Secretary. Thereafter, the Secretary of Health, Education, and Welfare shall submit to the Secretary all pertinent criteria regarding any such substances determined to be toxic or any such harmful agents as such criteria are developed. Within 60 days after receiving any criteria in accordance with the preceding sentence relating to a toxic material or harmful physical agent which is not adequately covered by a mandatory health or safety standard promulgated under this section, the Secretary shall either appoint an advisory committee to make recommendations with respect to a mandatory health or safety standard covering such material or agent in accordance with paragraph (1), or publish a proposed rule promulgating such a mandatory health or safety standard in accordance with

paragraph (2), or shall publish his determination not to do so.

(7) Any mandatory health or safety standard promulgated under this subsection shall prescribe the use of labels or other appropriate forms of warning as are necessary to insure that miners are apprised of all hazards to which they are exposed, relevant symptoms and appropriate emergency treatment, and proper conditions and precautions of safe use or exposure. Where appropriate, such mandatory standard shall also prescribe suitable protective equipment and control or technological procedures to be used in connection with such hazards and shall provide for monitoring or measuring miner exposure at such locations and intervals, and in such manner so as to assure the maximum protection of miners. In addition, where appropriate, any such mandatory standard shall prescribe the type and frequency of medical examinations or other tests which shall be made available, by the operator at his cost, to miners exposed to such hazards in order to most effectively determine whether the health of such miners is adversely affected by such exposure. Where appropriate, the mandatory standard shall provide that where a determination is made that a miner may suffer material impairment of health or functional capacity by reason of exposure to the hazard covered by such mandatory standard, that miner shall be removed from such exposure and reassigned. Any miner transferred as a result of such exposure shall continue to receive compensation for such work at no less than the regular rate of pay for miners in the classification such miner held immediately prior to his transfer. In the event of the transfer of a miner pursuant to the preceding sentence, increases in wages of the transferred miner shall be based upon the new work classification. In the event such medical examinations are in the nature of research, as determined by the Secretary of Health, Education, and Welfare, such examinations may be furnished at the expense of the Secretary of Health, Education, and Welfare. The results of examinations or tests made pursuant to the preceding sentence shall be furnished only to the Secretary or the Secretary of Health, Education, and Welfare, and, at the request of the miner, to his designated physician.

(8) The Secretary shall, to the extent practicable, promulgate separate mandatory health or safety standards applicable to mine construction activity on the surface.

(9) No mandatory health or safety standard promulgated under this title shall reduce the protection afforded miners by an existing mandatory health or safety standard.

(b)(1) The Secretary shall provide, without regard to the requirements of chapter 5, title 5, United States Code, for an emergency temporary mandatory health or safety standard to take immediate effect upon publication in the Federal Register if he determines (A) that miners are exposed to grave danger from exposure to substances or agents determined to be toxic or physically harmful, or to other hazards, and (B) that such emergency standard is necessary to protect miners from such danger.

(2) A temporary mandatory health or safety standard shall be effective until superseded by a mandatory standard promulgated in accordance with the procedures prescribed in paragraph (3) of this subsection.

(3) Upon publication of such standard in the Federal Register, the Secretary shall commence a proceeding in accordance with section 101 (a), and the standards as published shall also serve as a proposed rule for the proceeding. The Secretary shall promulgate a mandatory health or safety standard under this paragraph no later than nine months after publication of the emergency temporary standard as provided in paragraph (2).

(c) Upon petition by the operator or the representative of miners, the Secretary may modify the application of any mandatory safety standard to a coal or other mine if the Secretary determines that an alternative method of achieving the result of such standard exists which will at all times guarantee no less than the same measure of protection afforded the miners of such mine by such standard, or that the application of such standard to such mine will result in a diminution of safety to the miners in such mine. Upon receipt of such petition the Secretary shall publish notice thereof and give notice to the operator or the representative of miners in the affected mine, as appropriate, and shall cause such investigation to be made as he deems appropriate. Such investigation shall provide an opportunity for a public hearing at the request of such operator or representative or other interested party, to enable the operator or the representative of miners in such mine or other interested party to present information relating to the modification of such standard. Before granting any exception to a mandatory safety standard, the findings of the Secretary or his authorized representative shall be made public and shall be available to the representative of the miners at the affected mine. The Secretary shall issue a decision incorporating his findings of fact therein, and send a copy thereof to the operator or the representative of the miners, as appropriate. Any such hearing shall be of record and shall be subject to section 554 of title 5 of the United States Code.

(d) Any person who may be adversely affected by a mandatory health or safety standard promulgated under this section may, at any time prior to the sixtieth day after such standard is promulgated, file a petition challenging the validity of such mandatory standard with the United States Court of Appeals for the District of Columbia Circuit or the circuit wherein such person resides or has his principal place of business, for a judicial review of such standard. A copy of the petition shall be forthwith transmitted by the clerk of the court to the Secretary. The filing of such petition shall not, unless otherwise ordered by the court, operate as a stay of the standard. No objection that has not been urged before the Secretary shall be considered by the court, unless the failure or neglect to urge such objection shall be excused for good cause shown. The validity of any mandatory health or safety standard shall not be subject to challenge on the grounds that any of the time limitations in this section have been exceeded. The procedures of this subsection shall be the exclusive means of challenging the validity of a mandatory health or safety standard.

(e) The Secretary shall send a copy of every proposed mandatory health or safety standard or regulation at the time of publication in the Federal Register to the operator of each coal or other mine and the representative of the miners at such mine and such copy shall be immediately posted on the bulletin board of the mine by the operator or his agent, but failure to receive such notice shall not relieve anyone of the obligation to comply with such standard or regulation.

ADVISORY COMMITTEES

SEC. 102. (a)(1) The Secretary of the Interior shall appoint an advisory committee on coal or other mine safety research composed of--

- (A) the Director of the Office of Science and Technology or his delegate, with the consent of the Director;
- (B) the Director of the National Bureau of Standards, Department of Commerce, or his delegate, with the consent of the Director;
- (C) the Director of the National Science Foundation, or his delegate, with the consent of the Director; and
- (D) such other persons as the Secretary of the Interior may appoint who are knowledgeable in the field of coal or other mine safety research. The Secretary of the Interior shall designate the chairman of the committee.

(2) The advisory committee shall consult with, and make recommendations to, the Secretary of the Interior on matters involving or relating to coal or other mine safety research. The Secretary of the Interior shall consult with, and consider the recommendations of, such committee in the conduct of such research, the making of any grants, and the entering into of contracts for such research.

(3) The chairman of the committee and a majority of the persons appointed by the Secretary of the Interior pursuant to paragraph (1)(D) shall be individuals who have no economic interests in the coal or other mining industry, and who are not operators, miners, or officers or employees of the Federal Government or any State or local government.

(b)(1) The Secretary of Health, Education, and Welfare shall appoint an advisory committee on coal or other mine health research composed of--

- (A) the Director, Bureau of Mines, or his delegate, with the consent of the Director;
- (B) the Director of the National Science Foundation, or his delegate, with the consent of the Director;
- (C) the Director of the National Institutes of Health, or his delegate, with the consent of the Director; and
- (D) such other persons as the Secretary of Health, Education, and Welfare may appoint who are knowledgeable in the field of coal or other mine health research. The Secretary of Health, Education, and Welfare shall designate the chairman of the committee.

(2) The advisory committee shall consult with, and make recommendations to, the Secretary of Health, Education, and Welfare on matters involving or relating to coal or other mine health research. The Secretary of Health, Education, and Welfare shall consult with, and consider the recommendations of, such committee in the conduct of such research, the making of any grants, and the entering into of contracts for such research.

(3) The chairman of the committee and a majority of the persons appointed by the Secretary of Health,

Education, and Welfare pursuant to paragraph (1)(D) shall be individuals who have no economic interests in the coal or other mining industry, and who are not operators, miners, or officers or employees of the Federal Government or any State or local government.

(c) The Secretary or the Secretary of Health, Education, and Welfare may appoint other advisory committees as he deems appropriate to advise him in carrying out the provisions of this Act. The Secretary or the Secretary of Health, Education, and Welfare, as the case may be, shall appoint the chairman of each such committee. A majority of the members (including the chairman) of any such advisory committee appointed pursuant to this subsection shall be composed of individuals who have no economic interests in the coal or other mining industry, and who are not operators, miners, or officers or employees of the Federal Government or any State or local government.

(d) Advisory committee members, other than officers or employees of Federal, State, or local governments, shall be, for each day (including travel time) during which they are performing committee business, entitled to receive compensation at a rate fixed by the appropriate Secretary but not in excess of the maximum rate of pay for grade GS-18 as provided in the General Schedule under section 5332 of title 5 of the United States Code, and shall, notwithstanding the limitations of sections 5703 and 5704 of title 5 of the United States Code, be fully reimbursed for travel, subsistence, and related expenses.

INSPECTIONS, INVESTIGATIONS, AND RECORDKEEPING

SEC. 103. (a) Authorized representatives of the Secretary or the Secretary of Health, Education, and Welfare shall make frequent inspections and investigations in coal or other mines each year for the purpose of (1) obtaining, utilizing, and disseminating information relating to health and safety conditions, the causes of accidents, and the causes of diseases and physical impairments originating in such mines, (2) gathering information with respect to mandatory health or safety standards, (3) determining whether an imminent danger exists, and (4) determining whether there is compliance with the mandatory health or safety standards or with any citation, order, or decision issued under this title or other requirements of this Act. In carrying out the requirements of this subsection, no advance notice of an inspection shall be provided to any person, except that in carrying out the requirements of clauses (1) and (2) of this subsection, the Secretary of Health, Education, and Welfare may give advance notice of inspections. In carrying out the requirements of clauses (3) and (4) of this subsection, the Secretary shall make inspections of each underground coal or other mine in its entirety at least four times a year, and of each surface coal or other mine in its entirety at least two times a year. The Secretary shall develop guidelines for additional inspections of mines based on criteria including, but not limited to, the hazards found in mines subject to this Act, and his experience under this Act and other health and safety laws. For the purpose of making any inspection or investigation under this Act, the Secretary, or the Secretary of Health, Education, and Welfare, with respect to fulfilling his responsibilities under this Act, or any authorized representative of the Secretary or the Secretary of Health, Education, and Welfare, shall have a right of entry to, upon, or through any coal or other mine.

(b) For the purpose of making any investigation of any accident or other occurrence relating to health or safety in a coal or other mine, the Secretary may, after notice, hold public hearings, and may sign and issue subpoenas for the attendance and testimony of witnesses and the production of relevant papers, books, and documents, and administer oaths. Witnesses summoned shall be paid the same fees and mileage that are paid witnesses in the courts of the United States. In case of contumacy or refusal to obey a subpoena served upon any person under this section, the district court of the United States for any district in which such person is found or resides or transacts business, upon application by the United States and after notice to such person, shall have jurisdiction to issue an order requiring such person to appear and give testimony before the Secretary or to appear and produce documents before the Secretary, or both, and any failure to obey such order of the court may be punished by such court as a contempt thereof.

(c) The Secretary, in cooperation with the Secretary of Health, Education, and Welfare, shall issue regulations requiring operators to maintain accurate records of employee exposures to potentially toxic materials or harmful physical agents which are required to be monitored or measured under any applicable mandatory health or safety standard promulgated under this Act. Such regulations shall provide miners or their representatives with an opportunity to observe such monitoring or measuring, and to have access to the records thereof. Such regulations shall also make appropriate provisions for each miner or former miner to have access to such records as will indicate his own exposure to toxic materials or harmful physical agents. Each operator shall promptly notify any miner who has been or is being exposed to toxic materials or harmful physical agents in

concentrations or at levels which exceed those prescribed by an applicable mandatory health or safety standard promulgated under section 101, or mandated under title II, and shall inform any miner who is being thus exposed of the corrective action being taken.

(d) All accidents, including unintentional roof falls (except in any abandoned panels or in areas which are inaccessible or unsafe for inspections), shall be investigated by the operator or his agent to determine the cause and the means of preventing a recurrence. Records of such accidents and investigations shall be kept and the information shall be made available to the Secretary or his authorized representative and the appropriate State agency. Such records shall be open for inspection by interested persons. Such records shall include man-hours worked and shall be reported at a frequency determined by the Secretary, but at least annually.

(e) Any information obtained by the Secretary or by the Secretary of Health, Education, and Welfare under this Act shall be obtained in such a manner as not to impose an unreasonable burden upon operators, especially those operating small businesses, consistent with the underlying purposes of this Act. Unnecessary duplication of effort in obtaining information shall be reduced to the maximum extent feasible.

(f) Subject to regulations issued by the Secretary, a representative of the operator and a representative authorized by his miners shall be given an opportunity to accompany the Secretary or his authorized representative during the physical inspection of any coal or other mine made pursuant to the provisions of subsection (a), for the purpose of aiding such inspection and to participate in pre- or post-inspection conferences held at the mine. Where there is no authorized miner representative, the Secretary or his authorized representative shall consult with a reasonable number of miners concerning matters of health and safety in such mine. Such representative of miners who is also an employee of the operator shall suffer no loss of pay during the period of his participation in the inspection made under this subsection. To the extent that the Secretary or authorized representative of the Secretary determines that more than one representative from each party would further aid the inspection, he can permit each party to have an equal number of such additional representatives. However, only one such representative of miners who is an employee of the operator shall be entitled to suffer no loss of pay during the period of such participation under the provisions of this subsection. Compliance with this subsection shall not be a jurisdictional prerequisite to the enforcement of any provision of this Act.

(g)(1) Whenever a representative of the miners or a miner in the case of a coal or other mine where there is no such representative has reasonable grounds to believe that a violation of this Act or a mandatory health or safety standard exists, or an imminent danger exists, such miner or representative shall have a right to obtain an immediate inspection by giving notice to the Secretary or his authorized representative of such violation or danger. Any such notice shall be reduced to writing, signed by the representative of the miners or by the miner, and a copy shall be provided the operator or his agent no later than at the time of inspection, except that the operator or his agent shall be notified forthwith if the complaint indicates that an imminent danger exists. The name of the person giving such notice and the names of individual miners referred to therein shall not appear in such copy or notification. Upon receipt of such notification, a special inspection shall be made as soon as possible to determine if such violation or danger exists in accordance with the provisions of this title. If the Secretary determines that a violation or danger does not exist, he shall notify the miner or representative of the miners in writing of such determination.

(2) Prior to or during any inspection of a coal or other mine, any representative of miners or a miner in the case of a coal or other mine where there is no such representative, may notify the Secretary or any representative of the Secretary responsible for conducting the inspection, in writing, of any violation of this Act or of any imminent danger which he has reason to believe exists in such mine. The Secretary shall, by regulation, establish procedures for informal review of any refusal by a representative of the Secretary to issue a citation with respect to any such alleged violation or order with respect to such danger and shall furnish the representative of miners or miner requesting such review a written statement of the reasons for the Secretary's final disposition of the case.

(h) In addition to such records as are specifically required by this Act, every operator of a coal or other mine shall establish and maintain such records, make such reports, and provide such information, as the Secretary or the Secretary of Health, Education, and Welfare may reasonably require from time to time to enable him to perform his functions under this Act. The Secretary or the Secretary of Health, Education, and Welfare is authorized to compile, analyze, and publish, either in summary or detailed form, such reports or information so

obtained. Except to the extent otherwise specifically provided by this Act, all records, information, reports, findings, citations, notices, orders, or decisions required or issued pursuant to or under this Act may be published from time to time, may be released to any interested person, and shall be made available for public inspection.

(i) Whenever the Secretary finds that a coal or other mine liberates excessive quantities of methane or other explosive gases during its operations, or that a methane or other gas ignition or explosion has occurred in such mine which resulted in death or serious injury at any time during the previous five years, or that there exists in such mine some other especially hazardous condition, he shall provide a minimum of one spot inspection by his authorized representative of all or part of such mine during every five working days at irregular intervals. For purposes of this subsection, "liberation of excessive quantities of methane or other explosive gases" shall mean liberation of more than one million cubic feet of methane or other explosive gases during a 24-hour period. When the Secretary finds that a coal or other mine liberates more than five hundred thousand cubic feet of methane or other explosive gases during a 24-hour period, he shall provide a minimum of one spot inspection by his authorized representative of all or part of such mine every 10 working days at irregular intervals. When the Secretary finds that a coal or other mine liberates more than two hundred thousand cubic feet of methane or other explosive gases during a 24-hour period, he shall provide a minimum of one spot inspection by his authorized representative of all or part of such mine every 15 working days at irregular intervals.

(j) In the event of any accident occurring in any coal or other mine, the operator shall notify the Secretary thereof and shall take appropriate measures to prevent the destruction of any evidence which would assist in investigating the cause or causes thereof. In the event of any accident occurring in a coal or other mine, where rescue and recovery work is necessary, the Secretary or an authorized representative of the Secretary shall take whatever action he deems appropriate to protect the life of any person, and he may, if he deems it appropriate, supervise and direct the rescue and recovery activities in such mine.

(k) In the event of any accident occurring in a coal or other mine, an authorized representative of the Secretary, when present, may issue such orders as he deems appropriate to insure the safety of any person in the coal or other mine, and the operator of such mine shall obtain the approval of such representative, in consultation with appropriate State representatives, when feasible, of any plan to recover any person in such mine or to recover the coal or other mine or return affected areas of such mine to normal.

CITATIONS AND ORDERS

SEC. 104. (a) If, upon inspection or investigation, the Secretary or his authorized representative believes that an operator of a coal or other mine subject to this Act has violated this Act, or any mandatory health or safety standard, rule, order, or regulation promulgated pursuant to this Act, he shall, with reasonable promptness, issue a citation to the operator. Each citation shall be in writing and shall describe with particularity the nature of the violation, including a reference to the provision of the Act, standard, rule, regulation, or order alleged to have been violated. In addition, the citation shall fix a reasonable time for the abatement of the violation. The requirement for the issuance of a citation with reasonable promptness shall not be a jurisdictional prerequisite to the enforcement of any provision of this Act.

(b) If, upon any follow-up inspection of a coal or other mine, an authorized representative of the Secretary finds (1) that a violation described in a citation issued pursuant to subsection (a) has not been totally abated within the period of time as originally fixed therein or as subsequently extended, and (2) that the period of time for the abatement should not be further extended, he shall determine the extent of the area affected by the violation and shall promptly issue an order requiring the operator of such mine or his agent to immediately cause all persons, except those persons referred to in subsection (c), to be withdrawn from, and to be prohibited from entering, such area until an authorized representative of the Secretary determines that such violation has been abated.

(c) The following persons shall not be required to be withdrawn from, or prohibited from entering, any area of the coal or other mine subject to an order issued under this section:

- (1) any person whose presence in such area is necessary, in the judgment of the operator or an authorized representative of the Secretary, to eliminate the condition described in the order;
- (2) any public official whose official duties require him to enter such area;

- (3) any representative of the miners in such mine who is, in the judgment of the operator or an authorized representative of the Secretary, qualified to make such mine examinations or who is accompanied by such a person and whose presence in such area is necessary for the investigation of the conditions described in the order; and
- (4) any consultant to any of the foregoing.

(d)(1) If, upon any inspection of a coal or other mine, an authorized representative of the Secretary finds that there has been a violation of any mandatory health or safety standard, and if he also finds that, while the conditions created by such violation do not cause imminent danger, such violation is of such nature as could significantly and substantially contribute to the cause and effect of a coal or other mine safety or health hazard, and if he finds such violation to be caused by an unwarrantable failure of such operator to comply with such mandatory health or safety standards, he shall include such finding in any citation given to the operator under this Act. If, during the same inspection or any subsequent inspection of such mine within 90 days after the issuance of such citation, an authorized representative of the Secretary finds another violation of any mandatory health or safety standard and finds such violation to be also caused by an unwarrantable failure of such operator to so comply, he shall forthwith issue an order requiring the operator to cause all persons in the area affected by such violation, except those persons referred to in subsection (c) to be withdrawn from, and to be prohibited from entering, such area until an authorized representative of the Secretary determines that such violation has been abated.

(2) If a withdrawal order with respect to any area in a coal or other mine has been issued pursuant to paragraph (1), a withdrawal order shall promptly be issued by an authorized representative of the Secretary who finds upon any subsequent inspection the existence in such mine of violations similar to those that resulted in the issuance of the withdrawal order under paragraph (1) until such time as an inspection of such mine discloses no similar violations. Following an inspection of such mine which discloses no similar violations, the provisions of paragraph (1) shall again be applicable to that mine.

(e)(1) If an operator has a pattern of violations of mandatory health or safety standards in the coal or other mine which are of such nature as could have significantly and substantially contributed to the cause and effect of coal or other mine health or safety hazards, he shall be given written notice that such pattern exists. If, upon any inspection within 90 days after the issuance of such notice, an authorized representative of the Secretary finds any violation of a mandatory health or safety standard which could significantly and substantially contribute to the cause and effect of a coal or other mine safety or health hazard, the authorized representative shall issue an order requiring the operator to cause all persons in the area affected by such violation, except those persons referred to in subsection (c), to be withdrawn from, and to be prohibited from entering, such area until an authorized representative of the Secretary determines that such violation has been abated.

(2) If a withdrawal order with respect to any area in a coal or other mine has been issued pursuant to paragraph (1), a withdrawal order shall be issued by an authorized representative of the Secretary who finds upon any subsequent inspection the existence in such mine of any violation of a mandatory health or safety standard which could significantly and substantially contribute to the cause and effect of a coal or other mine health or safety hazard. The withdrawal order shall remain in effect until an authorized representative of the Secretary determines that such violation has been abated.

(3) If, upon an inspection of the entire coal or other mine, an authorized representative of the Secretary finds no violations of mandatory health or safety standards that could significantly and substantially contribute to the cause and effect of a coal or other mine health and safety hazard, the pattern of violations that resulted in the issuance of a notice under paragraph (1) shall be deemed to be terminated and the provisions of paragraphs (1) and (2) shall no longer apply. However, if as a result of subsequent violations, the operator reestablishes a pattern of violations, paragraphs (1) and (2) shall again be applicable to such operator.

(4) The Secretary shall make such rules as he deems necessary to establish criteria for determining when a pattern of violations of mandatory health or safety standards exists.

(f) If, based upon samples taken, analyzed, and recorded pursuant to section 202(a), or samples taken during an inspection by an authorized representative of the Secretary, the applicable limit on the concentration of respirable dust required to be maintained under this Act is exceeded and thereby violated, the Secretary or his authorized representative shall issue a citation fixing a reasonable time for the abatement of the violation. During such time, the operator of the mine shall cause samples described in section 202(a) to be taken of the

affected area during each production shift. If, upon the expiration of the period of time as originally fixed or subsequently extended, the Secretary or his authorized representative finds that the period of time should not be further extended, he shall determine the extent of the area affected by the violation and shall promptly issue an order requiring the operator of such mine or his agent to cause immediately all persons, except those referred to in subsection (c), to be withdrawn from, and to be prohibited from entering, such area until the Secretary or his authorized representative has reason to believe, based on actions taken by the operator, that such limit will be complied with upon the resumption of production in such mine. As soon as possible after an order is issued, the Secretary, upon request of the operator, shall dispatch to the mine involved a person, or team of persons, to the extent such persons are available, who are knowledgeable in the methods and means of controlling and reducing respirable dust. Such person or team of persons shall remain at the mine involved for such time as they shall deem appropriate to assist the operator in reducing respirable dust concentrations. While at the mine, such persons may require the operator to take such actions as they deem appropriate to insure the health of any person in the coal or other mine.

(g)(1) If, upon any inspection or investigation pursuant to section 103 of this Act, the Secretary or an authorized representative shall find employed at a coal or other mine a miner who has not received the requisite safety training as determined under section 115 of this Act, the Secretary or an authorized representative shall issue an order under this section which declares such miner to be a hazard to himself and to others, and requiring that such miner be immediately withdrawn from the coal or other mine, and be prohibited from entering such mine until an authorized representative of the Secretary determines that such miner has received the training required by section 115 of this Act.

(2) No miner who is ordered withdrawn from a coal or other mine under paragraph (1) shall be discharged or otherwise discriminated against because of such order; and no miner who is ordered withdrawn from a coal or other mine under paragraph (1) shall suffer a loss of compensation during the period necessary for such miner to receive such training and for an authorized representative of the Secretary to determine that such miner has received the requisite training.

(h) Any citation or order issued under this section shall remain in effect until modified, terminated or vacated by the Secretary or his authorized representative, or modified, terminated or vacated by the Commission or the courts pursuant to section 105 or 106.

PROCEDURE FOR ENFORCEMENT

SEC. 105. (a) If, after an inspection or investigation, the Secretary issues a citation or order under section 104, he shall, within a reasonable time after the termination of such inspection or investigation, notify the operator by certified mail of the civil penalty proposed to be assessed under section 110(a) for the violation cited and that the operator has 30 days within which to notify the Secretary that he wishes to contest the citation or proposed assessment of penalty. A copy of such notification shall be sent by mail to the representative of miners in such mine. If, within 30 days from the receipt of the notification issued by the Secretary, the operator fails to notify the Secretary that he intends to contest the citation or the proposed assessment of penalty, and no notice is filed by any miner or representative of miners under subsection (d) of this section within such time, the citation and the proposed assessment of penalty shall be deemed a final order of the Commission and not subject to review by any court or agency. Refusal by the operator or his agent to accept certified mail containing a citation and proposed assessment of penalty under this subsection shall constitute receipt thereof within the meaning of this subsection.

(b)(1)(A) If the Secretary has reason to believe that an operator has failed to correct a violation for which a citation has been issued within the period permitted for its correction, the Secretary shall notify the operator by certified mail of such failure and of the penalty proposed to be assessed under section 110(b) by reason of such failure and that the operator has 30 days within which to notify the Secretary that he wishes to contest the Secretary's notification of the proposed assessment of penalty. A copy of such notification of the proposed assessment of penalty shall at the same time be sent by mail to the representative of the mine employees. If, within 30 days from the receipt of notification of proposed assessment of penalty issued by the Secretary, the operator fails to notify the Secretary that he intends to contest the notification of proposed assessment of penalty, such notification shall be deemed a final order of the Commission and not subject to review by any court or agency. Refusal by the operator or his agent to accept certified mail containing a notification of proposed assessment of penalty issued under this subsection shall constitute receipt thereof within the meaning of this subsection.

(B) In determining whether to propose a penalty to be assessed under section 110(b), the Secretary shall consider the operator's history of previous violations, the appropriateness of such penalty to the size of the business of the operator charged, whether the operator was negligent, the effect on the operator's ability to continue in business, the gravity of the violation, and the demonstrated good faith of the operator charged in attempting to achieve rapid compliance after notification of a violation.

(2) An applicant may file with the Commission a written request that the Commission grant temporary relief from any modification or termination of any order or from any order issued under section 104 together with a detailed statement giving the reasons for granting such relief. The Commission may grant such relief under such conditions as it may prescribe, if--

- (A) a hearing has been held in which all parties were given an opportunity to be heard;
- (B) the applicant shows that there is substantial likelihood that the findings of the Commission will be favorable to the applicant; and
- (C) such relief will not adversely affect the health and safety of miners.

No temporary relief shall be granted in the case of a citation issued under subsection (a) or (f) of section 104. The Commission shall provide a procedure for expedited consideration of applications for temporary relief under this paragraph.

(c)(1) No person shall discharge or in any manner discriminate against or cause to be discharged or cause discrimination against or otherwise interfere with the exercise of the statutory rights of any miner, representative of miners or applicant for employment in any coal or other mine subject to this Act because such miner, representative of miners or applicant for employment has filed or made a complaint under or related to this Act, including a complaint notifying the operator or the operator's agent, or the representative of the miners at the coal or other mine of an alleged danger or safety or health violation in a coal or other mine, or because such miner, representative of miners or applicant for employment is the subject of medical evaluations and potential transfer under a standard published pursuant to section 101 or because such miner, representative of miners or applicant for employment has instituted or caused to be instituted any proceeding under or related to this Act or has testified or is about to testify in any such proceeding, or because of the exercise by such miner, representative of miners or applicant for employment on behalf of himself or others of any statutory right afforded by this Act.

(2) Any miner or applicant for employment or representative of miners who believes that he has been discharged, interfered with, or otherwise discriminated against by any person in violation of this subsection may, within 60 days after such violation occurs, file a complaint with the Secretary, alleging such discrimination. Upon receipt of such complaint, the Secretary shall forward a copy of the complaint to the respondent and shall cause such investigation to be made as he deems appropriate. Such investigation shall commence within 15 days of the Secretary's receipt of the complaint, and if the Secretary finds that such complaint was not frivolously brought, the Commission, on an expedited basis upon application of the Secretary, shall order the immediate reinstatement of the miner pending final order on the complaint. If upon such investigation, the Secretary determines that the provisions of this subsection have been violated, he shall immediately file a complaint with the Commission, with service upon the alleged violator and the miner, applicant for employment, or representative of miners alleging such discrimination or interference and propose an order granting appropriate relief. The Commission shall afford an opportunity for a hearing; (in accordance with section 554 of title 5, United States Code, but without regard to subsection (a)(3) of such section) and thereafter shall issue an order, based upon findings of fact, affirming, modifying, or vacating the Secretary's proposed order, or directing other appropriate relief. Such order shall become final 30 days after its issuance. The Commission shall have authority in such proceedings to require a person committing a violation of this subsection to take such affirmative action to abate the violation as the Commission deems appropriate, including, but not limited to, the rehiring or reinstatement of the miner to his former position with back pay and interest. The complaining miner, applicant, or representative of miners may present additional evidence on his own behalf during any hearing held pursuant to this paragraph.

(3) Within 90 days of the receipt of a complaint filed under paragraph (2), the Secretary shall notify, in writing, the miner, applicant for employment, or representative of miners of his determination whether a violation has occurred. If the Secretary, upon investigation, determines that the provisions of this subsection have not been violated, the complainant shall have the right, within 30 days of notice of the Secretary's determination, to file

an action in his own behalf before the Commission, charging discrimination or interference in violation of paragraph (1). The Commission shall afford an opportunity for a hearing (in accordance with section 554 of title 5, United States Code, but without regard to subsection (a)(3) of such section), and thereafter shall issue an order, based upon findings of fact, dismissing or sustaining the complainant's charges and, if the charges are sustained, granting such relief as it deems appropriate, including, but not limited to, an order requiring the rehiring or reinstatement of the miner to his former position with back pay and interest or such remedy as may be appropriate. Such order shall become final 30 days after its issuance. Whenever an order is issued sustaining the complainant's charges under this subsection, a sum equal to the aggregate amount of all costs and expenses (including attorney's fees) as determined by the Commission to have been reasonably incurred by the miner, applicant for employment or representative of miners for, or in connection with, the institution and prosecution of such proceedings shall be assessed against the person committing such violation. Proceedings under this section shall be expedited by the Secretary and the Commission. Any order issued by the Commission under this paragraph shall be subject to judicial review in accordance with section 106. Violations by any person of paragraph (1) shall be subject to the provisions of sections 108 and 110(a).

(d) If, within 30 days of receipt thereof, an operator of a coal or other mine notifies the Secretary that he intends to contest the issuance or modification of an order issued under section 104, or citation or a notification of proposed assessment of a penalty issued under subsection (a) or (b) of this section, or the reasonableness of the length of abatement time fixed in a citation or modification thereof issued under section 104, or any miner or representative of miners notifies the Secretary of an intention to contest the issuance, modification, or termination of any order issued under section 104, or the reasonableness of the length of time set for abatement by a citation or modification thereof issued under section 104, the Secretary shall immediately advise the Commission of such notification, and the Commission shall afford an opportunity for a hearing (in accordance with section 554 of title 5, United States Code, but without regard to subsection (a)(3) of such section), and thereafter shall issue an order, based on findings of fact, affirming, modifying, or vacating the Secretary's citation, order, or proposed penalty, or directing other appropriate relief. Such order shall become final 30 days after its issuance. The rules of procedure prescribed by the Commission shall provide affected miners or representatives of affected miners an opportunity to participate as parties to hearings under this section. The Commission shall take whatever action is necessary to expedite proceedings for hearing appeals of orders issued under section 104.

JUDICIAL REVIEW

SEC. 106. (a)(1) Any person adversely affected or aggrieved by an order of the Commission issued under this Act may obtain a review of such order in any United States court of appeals for the circuit in which the violation is alleged to have occurred or in the United States Court of Appeals for the District of Columbia Circuit, by filing in such court within 30 days following the issuance of such order a written petition praying that the order be modified or set aside. A copy of such petition shall be forthwith transmitted by the clerk of the court to the Commission and to the other parties, and thereupon the Commission shall file in the court the record in the proceeding as provided in section 2112 of title 28, United States Code. Upon such filing, the court shall have exclusive jurisdiction of the proceeding and of the questions determined therein, and shall have the power to make and enter upon the pleadings, testimony, and proceedings set forth in such record a decree affirming, modifying, or setting aside, in whole or in part, the order of the Commission and enforcing the same to the extent that such order is affirmed or modified. No objection that has not been urged before the Commission shall be considered by the court, unless the failure or neglect to urge such objection shall be excused because of extraordinary circumstances. The findings of the Commission with respect to questions of fact, if supported by substantial evidence on the record considered as a whole, shall be conclusive. If any party shall apply to the court for leave to adduce additional evidence and shall show to the satisfaction of the court that such additional evidence is material and that there were reasonable grounds for the failure to adduce such evidence in the hearing before the Commission, the court may order such additional evidence to be taken before the Commission and to be made a part of the record. The Commission may modify its findings as to the facts, or make new findings, by reason of additional evidence so taken and filed, and it shall file such modified or new findings, which findings with respect to questions of fact, if supported by substantial evidence on the record considered as a whole, shall be conclusive. The Commission may modify or set aside its original order by reason of such modified or new findings of fact. Upon the filing of the record after such remand proceedings, the jurisdiction of the court shall be exclusive and its judgment and decree shall be final, except that the same shall be subject to review by the Supreme Court of the United States, as provided in section 1254 of title 28, United States Code. Petitions filed under this subsection shall be heard expeditiously.

(2) In the case of a proceeding to review any order or decision issued by the Commission under this Act, except an order or decision pertaining to an order issued under section 107 (a) or an order or decision pertaining to a citation issued under section 104(a) or (f), the court may, under such conditions as it may prescribe, grant such temporary relief as it deems appropriate pending final determination of the proceeding, if

- (A) all parties to the proceeding have been notified and given an opportunity to be heard on a request for temporary relief;
- (B) the person requesting such relief shows that there is a substantial likelihood that he will prevail on the merits of the final determination of the proceeding; and
- (C) such relief will not adversely affect the health and safety of miners in the coal or other mine.

(3) In the case of a proceeding to review any order or decision issued by the Panel under this Act, the court may, under such conditions as it may prescribe, grant such temporary relief as it deems appropriate pending final determination of the proceeding, if--

- (A) all parties to the proceeding have been notified and given an opportunity to be heard on a request for temporary relief; and
- (B) the person requesting such relief shows that there is a substantial likelihood that he will prevail on the merits of the final determination of the proceeding.

(b) The Secretary may also obtain review or enforcement of any final order of the Commission by filing a petition for such relief in the United States court of appeals for the circuit in which the alleged violation occurred or in the Court of Appeals for the District of Columbia Circuit, and the provisions of subsection (a) shall govern such proceedings to the extent applicable. If no petition for review, as provided in subsection (a), is filed within 30 days after issuance of the Commission's order, the Commission's findings of fact and order shall be conclusive in connection with any petition for enforcement which is filed by the Secretary after the expiration of such 30-day period. In any such case, as well as in the case of a noncontested citation or notification by the Secretary which has become a final order of the Commission under subsection (a) or (b) of section 105, the clerk of the court, unless otherwise ordered by the court, shall forthwith enter a decree enforcing the order and shall transmit a copy of such decree to the Secretary and the operator named in the petition. In any contempt proceeding brought to enforce a decree of a court of appeals entered pursuant to this subsection or subsection (a), the court of appeals may assess the penalties provided in section 110, in addition to invoking any other available remedies.

(c) The commencement of a proceeding under this section shall not, unless specifically ordered by the court, operate as a stay of the order or decision of the Commission or the Panel.

PROCEDURES TO COUNTERACT DANGEROUS CONDITIONS

SEC. 107. (a) If, upon any inspection or investigation of a coal or other mine which is subject to this Act, an authorized representative of the Secretary finds that an imminent danger exists, such representative shall determine the extent of the area of such mine throughout which the danger exists, and issue an order requiring the operator of such mine to cause all persons, except those referred to in section 104(c), to be withdrawn from, and to be prohibited from entering, such area until an authorized representative of the Secretary determines that such imminent danger and the conditions or practices which caused such imminent danger no longer exist. The issuance of an order under this subsection shall not preclude the issuance of a citation under section 104 or the proposing of a penalty under section 110.

(b)(1) If, upon any inspection of a coal or other mine, an authorized representative of the Secretary finds (A) that conditions exist therein which have not yet resulted in an imminent danger, (B) that such conditions cannot be effectively abated through the use of existing technology, and (C) that reasonable assurance cannot be provided that the continuance of mining operations under such conditions will not result in an imminent danger, he shall determine the area throughout which such conditions exist, and thereupon issue a notice to the operator of the mine or his agent of such conditions, and shall file a copy thereof, incorporating his findings therein, with the Secretary and with the representative of the miners of such mine. Upon receipt of such copy, the Secretary shall cause such further investigation to be made as he deems appropriate, including an opportunity for the operator or a representative of the miners to present information relating to such notice.

(2) Upon the conclusion of an investigation pursuant to paragraph (1), and an opportunity for a public hearing

upon request by any interested party, the Secretary shall make findings of fact, and shall by decision incorporating such findings therein, either cancel the notice issued under this subsection or issue an order requiring the operator of such mine to cause all persons in the area affected, except those persons referred to in subsection (c) of section 104 to be withdrawn from, and be prohibited from entering, such area until the Secretary, after a public hearing affording all interested persons an opportunity to present their views, determines that such conditions have been abated. Any hearing under this paragraph shall be of record and shall be subject to section 554 of title 5 of the United States Code.

(c) Orders issued pursuant to subsection (a) shall contain a detailed description of the conditions or practices which cause and constitute an imminent danger and a description of the area of the coal or other mine from which persons must be withdrawn and prohibited from entering.

(d) Each finding made and order issued under this section shall be given promptly to the operator of the coal or other mine to which it pertains by the person making such finding or order, and all of such findings and orders shall be in writing, and shall be signed by the person making them. Any order issued pursuant to subsection (a) may be modified or terminated by an authorized representative of the Secretary. Any order issued under subsection (a) or (b) shall remain in effect until vacated, modified, or terminated by the Secretary, or modified or vacated by the Commission pursuant to subsection (e), or by the courts pursuant to section 106(a).

(e)(1) Any operator notified of an order under this section or any representative of miners notified of the issuance, modification, or termination of such an order may apply to the Commission within 30 days of such notification for reinstatement, modification or vacation of such order. The Commission shall forthwith afford an opportunity for a hearing (in accordance with section 554 of title 5, United States Code, but without regard to subsection (a)(3) of such section) and thereafter shall issue an order, based upon findings of fact, vacating, affirming, modifying, or terminating the Secretary's order. The Commission and the courts may not grant temporary relief from the issuance of any order under subsection (a).

(2) The Commission shall take whatever action is necessary to expedite proceedings under this subsection.

INJUNCTIONS

SEC. 108. (a)(1) The Secretary may institute a civil action for relief, including a permanent or temporary injunction, restraining order, or any other appropriate order in the district court of the United States for the district in which a coal or other mine is located or in which the operator of such mine has his principal office, whenever such operator or his agent--

- (A) violates or fails or refuses to comply with any order or decision issued under this Act,
- (B) interferes with, hinders, or delays the Secretary or his authorized representative, or the Secretary of Health, Education, and Welfare or his authorized representative, in carrying out the provisions of this Act,
- (C) refuses to admit such representatives to the coal or other mine,
- (D) refuses to permit the inspection of the coal or other mine, or the investigation of an accident or occupational disease occurring in, or connected with, such mine,
- (E) refuses to furnish any information or report requested by the Secretary or the Secretary of Health, Education, and Welfare in furtherance of the provisions of this Act, or
- (F) refuses to permit access to, and copying of, such records as the Secretary or the Secretary of Health, Education, and Welfare determines necessary in carrying out the provisions of this Act.

(2) The Secretary may institute a civil action for relief, including permanent or temporary injunction, restraining order, or any other appropriate order in the district court of the United States for the district in which the coal or other mine is located or in which the operator of such mine has his principal office whenever the Secretary believes that the operator of a coal or other mine is engaged in a pattern of violation of the mandatory health or safety standards of this Act, which in the judgment of the Secretary constitutes a continuing hazard to the health or safety of miners.

(b) In any action brought under subsection (a), the court shall have jurisdiction to provide (1) such relief as may be appropriate. In the case of an action under subsection (a)(2), the court shall in its order require such assurance or affirmative steps as it deems necessary to assure itself that the protection afforded to miners under this Act shall be provided by the operator. Temporary restraining orders shall be issued in accordance

with rule 65 of the Federal Rules of Civil Procedure, as amended, except that the time limit in such orders, when issued without notice, shall be seven days from the date of entry. Except as otherwise provided herein, any relief granted by the court to enforce any order under paragraph (1) of subsection (a) shall continue in effect until the completion or final termination of all proceedings for review of such order under this title, unless prior thereto, the district court granting such relief sets it aside or modifies it. In any action instituted under this section to enforce an order or decision issued by the Commission or the Secretary after a public hearing in accordance with section 554 of title 5 of the United States Code, the findings of the Commission or the Secretary, as the case may be, if supported by substantial evidence on the record considered as a whole, shall be conclusive.

POSTING OF ORDERS AND DECISIONS

SEC. 109. (a) At each coal or other mine there shall be maintained an office with a conspicuous sign designating it as the office of such mine. There shall be a bulletin board at such office or located at a conspicuous place near an entrance of such mine, in such manner that orders, citations, notices and decisions required by law or regulation to be posted, may be posted thereon, and be easily visible to all persons desiring to read them, and be protected against damage by weather and against unauthorized removal. A copy of any order, citation, notice or decision required by this Act to be given to an operator shall be delivered to the office of the affected mine, and a copy shall be immediately posted on the bulletin board of such mine by the operator or his agent.

(b) The Secretary shall (1) cause a copy of any order, citation, notice, or decision required by this Act to be given to an operator to be mailed immediately to a representative of the miners in the affected coal or other mine, and (2) cause a copy thereof to be mailed to the public official or agency of the State charged with administering State laws, if any, relating to health or safety in such mine. Such notice, order, citation, or decision shall be available for public inspection.

(c) In order to insure prompt compliance with any notice, order, citation, or decision issued under this Act, the authorized representative of the Secretary may deliver such notice order, citation, or decision to an agent of the operator, and such agent shall immediately take appropriate measures to insure compliance with such notice, order, citation, or decision.

(d) Each operator of a coal or other mine subject to this Act shall file with the Secretary the name and address of such mine and the name and address of the person who controls or operates the mine. Any revisions in such names or addresses shall be promptly filed with the Secretary. Each operator of a coal or other mine subject to this Act shall designate a responsible official at such mine as the principal officer in charge of health and safety at such mine, and such official shall receive a copy of any notice, order, citation, or decision issued under this Act affecting such mine. In any case where the mine is subject to the control of any person not directly involved in the daily operations of the coal or other mine, there shall be filed with the Secretary the name and address of such person and the name and address of a principal official of such person who shall have overall responsibility for the conduct of an effective health and safety program at any coal or other mine subject to the control of such person, and such official shall receive a copy of any notice, order, citation, or decision issued affecting any such mine. The mere designation of a health and safety official under this subsection shall not be construed as making such official subject to any penalty under this Act.

PENALTIES

SEC. 110.(a) The operator of a coal or other mine in which a violation occurs of a mandatory health or safety standard or who violates any other provision of this Act, shall be assessed a civil penalty by the Secretary which penalty shall not be more than \$10,000 for each such violation. Each occurrence of a violation of a mandatory health or safety standard may constitute a separate offense.

(b) Any operator who fails to correct a violation for which a citation has been issued under section 104(a) within the period permitted for its correction may be assessed a civil penalty of not more than \$1,000 for each day during which such failure or violation continues.

(c) Whenever a corporate operator violates a mandatory health or safety standard or knowingly violates or fails or refuses to comply with any order issued under this Act or any order incorporated in a final decision issued under this Act, except an order incorporated in a decision issued under subsection (a) or section 105(c), any

director, officer, or agent of such corporation who knowingly authorized, ordered, or carried out such violation, failure, or refusal shall be subject to the same civil penalties, fines, and imprisonment that may be imposed upon a person under subsections (a) and (d).

(d) Any operator who willfully violates a mandatory health or safety standard, or knowingly violates or fails or refuses to comply with any order issued under section 104 and section 107, or any order incorporated in a final decision issued under this title, except an order incorporated in a decision under subsection (a) or section 105(c), shall, upon conviction, be punished by a fine of not more than \$25,000, or by imprisonment for not more than one year, or by both, except that if the conviction is for a violation committed after the first conviction of such operator under this Act, punishment shall be by a fine of not more than \$50,000, or by imprisonment for not more than five years, or both.

(e) Unless otherwise authorized by this Act, any person who gives advance notice of any inspection to be conducted under this Act shall, upon conviction, be punished by a fine of not more than \$1,000 or by imprisonment for not more than six months, or both.

(f) Whoever knowingly makes any false statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to this Act shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than five years, or both.

(g) Any miner who willfully violates the mandatory safety standards relating to smoking or the carrying of smoking materials, matches, or lighters shall be subject to a civil penalty assessed by the Commission, which penalty shall not be more than \$250 for each occurrence of such violation.

(h) Whoever knowingly distributes, sells, offers for sale, introduces, or delivers in commerce any equipment for use in a coal or other mine, including, but not limited to, components and accessories of such equipment, which is represented as complying with the provisions of this Act, or with any specification or regulation of the Secretary applicable to such equipment, and which does not so comply, shall, upon conviction, be subject to the same fine and imprisonment that may be imposed upon a person under subsection (f) of this section.

(i) The Commission shall have authority to assess all civil penalties provided in this Act. In assessing civil monetary penalties, the Commission shall consider the operator's history of previous violations, the appropriateness of such penalty to the size of the business of the operator charged, whether the operator was negligent, the effect on the operator's ability to continue in business, the gravity of the violation, and the demonstrated good faith of the person charged in attempting to achieve rapid compliance after notification of a violation. In proposing civil penalties under this Act, the Secretary may rely upon a summary review of the information available to him and shall not be required to make findings of fact concerning the above factors.

(j) Civil penalties owed under this Act shall be paid to the Secretary for deposit into the Treasury of the United States and shall accrue to the United States and may be recovered in a civil action in the name of the United States brought in the United States district court for the district where the violation occurred or where the operator has its principal office. Interest at the rate of 8 percent per annum shall be charged against a person on any final order of the Commission, or the court. Interest shall begin to accrue 30 days after the issuance of such order.

(k) No proposed penalty which has been contested before the Commission under section 105(a) shall be compromised, mitigated, or settled except with the approval of the Commission. No penalty assessment which has become a final order of the Commission shall be compromised, mitigated, or settled except with the approval of the court.

(l) The provisions of this section shall not be applicable with respect to title IV of this Act.

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**Federal Mine Safety & Health Act of 1977,
Public Law 91-173,
as amended by Public Law 95-164**

ENTITLEMENT OF MINERS

SEC. 111. If a coal or other mine or area of such mine is closed by an order issued under section 103, section 104, or section 107, all miners working during the shift when such order was issued who are idled by such order shall be entitled, regardless of the result of any review of such order, to full compensation by the operator at their regular rates of pay for the period they are idled, but for not more than the balance of such shift. If such order is not terminated prior to the next working shift, all miners on that shift who are idled by such order shall be entitled to full compensation by the operator at their regular rates of pay for the period they are idled, but for not more than four hours of such shift. If a coal or other mine or area of such mine is closed by an order issued under section 104 or section 107 of this title for a failure of the operator to comply with any mandatory health or safety standards, all miners who are idled due to such order shall be fully compensated after all interested parties are given an opportunity for a public hearing, which shall be expedited in such cases, and after such order is final, by the operator for lost time at their regular rates of pay for such time as the miners are idled by such closing, or for one week, whichever is the lesser. Whenever an operator violates or fails or refuses to comply with any order issued under section 103, section 104, or section 107 of this Act, all miners employed at the affected mine who would have been withdrawn from, or prevented from entering, such mine or area thereof as a result of such order shall be entitled to full compensation by the operator at their regular rates of pay, in addition to pay received for work performed after such order was issued, for the period beginning when such order was issued and ending when such order is complied with, vacated, or terminated. The Commission shall have authority to order compensation due under this section upon the filing of a complaint by a miner or his representative and after opportunity for hearing subject to section 554 of title 5, United States Code.

ADMINISTRATIVE PROVISIONS

SEC. 112. Except as provided in section 518(a) of title 28, United States Code, relating to litigation before the Supreme Court, the Solicitor of Labor may appear for and represent the Secretary in any civil litigation brought under this Act but all such litigation shall be subject to the direction and control of the Attorney General.

THE FEDERAL MINE SAFETY AND HEALTH REVIEW COMMISSION

SEC. 113. (a) The Federal Mine Safety and Health Review Commission is hereby established. The Commission shall consist of five members, appointed by the President by and with the advice and consent of the Senate, from among persons who by reason of training, education, or experience are qualified to carry out the functions of the Commission under this Act. The President shall designate one of the members of the Commission to serve as Chairman.

(b)(1) The terms of the members of the Commission shall be six years, except that--

- (A) members of the Commission first taking office after the date of enactment of the Federal Mine Safety and Health Amendments Act of 1977, shall serve, as designated by the President at the time of appointment, one for a term of two years, two for a term of four years and two for a term of six years; and
- (B) a vacancy caused by the death, resignation, or removal of any member prior to the expiration of the term for which he was appointed shall be filled only for the remainder of such unexpired term.

Any member of the Commission may be removed by the President for inefficiency, neglect of duty, or malfeasance in office.

(2) The Chairman shall be responsible on behalf of the Commission for the administrative operations of the Commission. The Commission shall appoint such employees as it deems necessary to assist in the performance of the Commission's functions and to fix their compensation in accordance with the provisions of chapter 51 and subchapter III of chapter 53 of title 5, United States Code, relating to classification and general pay rates. Upon the effective date of the Federal Mine Safety and Health Amendments Act of 1977, the administrative law judges assigned to the Arlington, Virginia, facility of the Office of Hearings and Appeals,

United States Department of the Interior, shall be automatically transferred in grade and position to the Federal Mine Safety and Health Review Commission. Notwithstanding the provisions of section 559 of title 5 of the United States Code, the incumbent Chief Administrative Law Judge of the Office of Hearings and Appeals of the Department of the Interior assigned to the Arlington, Virginia facility shall have the option, on the effective date of the Federal Mine Safety and Health Amendments Act of 1977, of transferring to the Commission as an administrative law judge, in the same grade and position as the other administrative law judges. The administrative law judges (except those presiding over Indian Probate Matters) assigned to the Western facilities of the Office of Hearings and Appeals of the Department of the Interior shall remain with that Department at their present grade and position or they shall have the right to transfer on an equivalent basis to that extended in this paragraph to the Arlington, Virginia administrative law judges in accordance with procedures established by the Civil Service Commission. The Commission shall appoint such additional administrative law judges as it deems necessary to carry out the functions of the Commission. Assignment, removal, and compensation of administrative law judges shall be in accordance with sections 3105, 3344, 5362 and 7521 of title 5, United States Code.

(c) The Commission is authorized to delegate to any group of three or more members any or all of the powers of the Commission, except that two members shall constitute a quorum of any group designated pursuant to this paragraph.

(d)(1) An administrative law judge appointed by the Commission to hear matters under this Act shall hear, and make a determination upon, any proceeding instituted before the Commission and any motion in connection therewith, assigned to such administrative law judge by the chief administrative law judge of the Commission or by the Commission, and shall make a decision which constitutes his final disposition of the proceedings. The decision of the administrative law judge of the Commission shall become the final decision of the Commission 40 days after its issuance unless within such period of the Commission has directed that such decision shall be reviewed by the Commission in accordance with paragraph (2). An administrative law judge shall not be assigned to prepare a recommended decision under this Act.

(2) The Commission shall prescribe rules of procedure for its review of the decisions of administrative law judges in cases under this Act which shall meet the following standards for review:

(A)(i) Any person adversely affected or aggrieved by a decision of an administrative law judge, may file and serve a petition for discretionary review by the Commission of such decision within 30 days after the issuance of such decision. Review by the Commission shall not be a matter of right but of the sound discretion of the Commission.

(ii) Petitions for discretionary review shall be filed only upon one or more of the following grounds:

- (I) A finding or conclusion of material fact is not supported by substantial evidence.
- (II) A necessary legal conclusion is erroneous.
- (III) The decision is contrary to law or to the duly promulgated rules or decisions of the Commission.
- (IV) A substantial question of law, policy or discretion is involved.
- (V) A prejudicial error of procedure was committed.

(iii) Each issue shall be separately numbered and plainly and concisely stated, and shall be supported by detailed citations to the record when assignments of error are based on the record, and by statutes, regulations, or principal authorities relied upon. Except for good cause shown, no assignment of error by any party shall rely on any question of fact or law upon which the administrative law judge had not been afforded an opportunity to pass. Review by the Commission shall be granted only by affirmative vote of two of the Commissioners present and voting. If granted, review shall be limited to the questions raised by the petition.

(B) At any time within 30 days after the issuance of a decision of an administrative law judge, the Commission may in its discretion (by affirmative vote of two of the Commissioners present and voting) order the case before it for review but only upon the ground that the decision may be contrary to law or Commission policy, or that a novel question of policy has been presented. The Commission shall state in such order the specific issue of law, Commission policy, or novel question of policy involved. If a party's petition for discretionary review has been granted, the Commission shall not raise or consider additional issues in such review proceedings except in compliance with the requirements of this paragraph.

(C) For the purpose of review by the Commission under paragraph (A) or (B) of this subsection, the record shall include: (i) all matters constituting the record upon which the decision of the administrative law judge was based; (ii) the rulings upon proposed findings and conclusions; (iii) the decision of the administrative law judge; (iv) the petition or petitions for discretionary review, responses thereto, and the Commission's order for review; and (v) briefs filed on review. No other material shall be considered by the Commission upon review. The Commission either may remand the case to the administrative law judge for further proceedings as it may direct or it may affirm, set aside, or modify the decision or order of the administrative law judge in conformity with the record. If the Commission determines that further evidence is necessary on an issue of fact it shall remand the case for further proceedings before the administrative law judge.

(The provisions of section 557(b) of title 5, United States Code, with regard to the review authority of the Commission are hereby expressly superseded to the extent that they are inconsistent with the provisions of subparagraphs (A), (B), and (C) of this paragraph.)

(e) In connection with hearings before the Commission or its administrative law judges under this Act, the Commission and its administrative law judges may compel the attendance and testimony of witnesses and the production of books, papers, or documents, or objects, and order testimony to be taken by deposition at any stage of the proceedings before them. Any person may be compelled to appear and depose and produce similar documentary or physical evidence, in the same manner as witnesses may be compelled to appear and produce evidence before the Commission and its administrative law judges. Witnesses shall be paid the same fees and mileage that are paid witnesses in the courts of the United States and at depositions ordered by such courts. In case of contumacy, failure, or refusal of any person to obey a subpoena or order of the Commission or an administrative law judge, respectively, to appear, to testify, or to produce documentary or physical evidence, any district court of the United States or the United States courts of any territory or possession, within the jurisdiction of which such person is found, or resides, or transacts business, shall, upon the application of the Commission, or the administrative law judge, respectively, have jurisdiction to issue to such person an order requiring such person to appear, to testify, or to produce evidence as ordered by the Commission or the administrative law judge, respectively, and any failure to obey such order of the court may be punished by the court as a contempt thereof.

AUTHORIZATION OF APPROPRIATIONS

SEC. 114. There are authorized to be appropriated, out of any moneys in the Treasury not otherwise appropriated, such sums as may be necessary to carry out the provisions of this title.

MANDATORY HEALTH AND SAFETY TRAINING

SEC. 115. (a) Each operator of a coal or other mine shall have a health and safety training program which shall be approved by the Secretary. The Secretary shall promulgate regulations with respect to such health and safety training programs not more than 180 days after the effective date of the Federal Mine Safety and Health Amendments Act of 1977. Each training program approved by the Secretary shall provide as a minimum that--

(1) new miners having no underground mining experience shall receive no less than 40 hours of training if they are to work underground. Such training shall include instruction in the statutory rights of miners and their representatives under this Act, use of the self-rescue device and use of respiratory devices, hazard recognition, escapeways, walk around training, emergency procedures, basic ventilation, basic roof control, electrical hazards, first aid, and the health and safety aspects of the task to which he will be assigned;

(2) new miners having no surface mining experience shall receive no less than 24 hours of training if they are to work on the surface. Such training shall include instruction in the statutory rights of miners and their representatives under this Act, use of the self-rescue device where appropriate and use of respiratory devices where appropriate, hazard recognition, emergency procedures, electrical hazards, first aid, walk around training and the health and safety aspects of the task to which he will be assigned;

(3) all miners shall receive no less than eight hours of refresher training no less frequently than once each 12 months, except that miners already employed on the effective date of the Federal Mine Safety and Health Amendments Act of 1977 shall receive this refresher training no more than 90 days after the date of approval of the training plan required by this section;

(4) any miner who is reassigned to a new task in which he has had no previous work experience shall receive training in accordance with a training plan approved by the Secretary under this subsection in the

safety and health aspects specific to that task prior to performing that task;
(5) any training required by paragraphs (1), (2) or (4) shall include a period of training as closely related as is practicable to the work in which the miner is to be engaged.

(b) Any health and safety training provided under subsection (a) shall be provided during normal working hours. Miners shall be paid at their normal rate of compensation while they take such training, and new miners shall be paid at their starting wage rate when they take the new miner training. If such training shall be given at a location other than the normal place of work, miners shall also be compensated for the additional costs they may incur in attending such training sessions.

(c) Upon completion of each training program, each operator shall certify, on a form approved by the Secretary, that the miner has received the specified training in each subject area of the approved health and safety training plan. A certificate for each miner shall be maintained by the operator, and shall be available for inspection at the mine site, and a copy thereof shall be given to each miner at the completion of such training. When a miner leaves the operator's employ, he shall be entitled to a copy of his health and safety training certificates. False certification by an operator that training was given shall be punishable under section 110(a) and (f); and each health and safety training certificate shall indicate on its face, in bold letters, printed in a conspicuous manner the fact that such false certification is so punishable.

(d) The Secretary shall promulgate appropriate standards for safety and health training for coal or other mine construction workers.

(e) Within 180 days after the effective date of the Federal Mine Safety and Health Amendments Act of 1977, the Secretary shall publish proposed regulations which shall provide that mine rescue teams shall be available for rescue and recovery work to each underground coal or other mine in the event of an emergency. The costs of making advance arrangements for such teams shall be borne by the operator of each such mine.

TITLE II--INTERIM MANDATORY HEALTH STANDARDS

COVERAGE

SEC. 201. (a) The provisions of sections 202 through 206 of this title and the applicable provisions of section 318 of the title III shall be interim mandatory health standards applicable to all underground coal mines until superseded in whole or in part by improved mandatory health standards promulgated by the Secretary under the provisions of section 101 of this Act, and shall be enforced in the same manner and to the same extent as any mandatory health standard promulgated under the provisions of section 101 of this Act. Any orders issued in the enforcement of the interim standards set forth in this title shall be subject to review as provided in title I of this Act.

(b) Among other things, it is the purpose of this title to provide, to the greatest extent possible, that the working conditions in each underground coal mine are sufficiently free of respirable dust concentrations in the mine atmosphere to permit each miner the opportunity to work underground during the period of his entire adult working life without incurring any disability from pneumoconiosis or any other occupation-related disease during or at the end of such period.

DUST STANDARD AND RESPIRATORY EQUIPMENT

SEC. 202. (a) Each operator of a coal mine shall take accurate samples of the amount of respirable dust in the mine atmosphere to which each miner in the active workings of such mine is exposed. Such samples shall be taken by any device approved by the Secretary and the Secretary of Health, Education, and Welfare and in accordance with such methods, at such locations, at such intervals, and in such manner as the Secretaries shall prescribe in the Federal Register within sixty days from the date of enactment of this Act and from time to time thereafter. Such samples shall be transmitted to the Secretary in a manner established by him, and analyzed and recorded by him in a manner that will assure application of the provisions of section 104(i) of this Act when the applicable limit on the concentration of respirable dust required to be maintained under this section is exceeded. The results of such samples shall also be made available to the operator. Each operator shall report and certify to the Secretary at such intervals as the Secretary may require as to the conditions in the active workings of the coal mine, including, but not limited to, the average number of working hours worked during each shift, the quantity and velocity of air regularly reaching the working faces, the method of mining, the

amount and pressure of the water, if any, reaching the working faces, and the number, location, and type of sprays, if any, used.

(b) Except as otherwise provided in this subsection--

(1) Effective on the operative date of this title, each operator shall continuously maintain the average concentration of respirable dust in the mine atmosphere during each shift to which each miner in the active workings of such mine is exposed at or below 3.0 milligrams of respirable dust per cubic meter of air.

(2) Effective three years after the date of enactment of this Act, each operator shall continuously maintain the average concentration of respirable dust in the mine atmosphere during each shift to which each miner in the active workings of such mine is exposed at or below 2.0 milligrams of respirable dust per cubic meter of air.

(3) Any operator who determines that he will be unable, using available technology, to comply with the provisions of paragraph (1) of this subsection, or the provisions of paragraph (2) of this subsection, as appropriate, may file with the Panel, no later than sixty days prior to the effective date of the applicable respirable dust standard established by such paragraphs, an application for a permit for noncompliance. If, in the case of an application for a permit for noncompliance with the 3.0 milligram standard established by paragraph (1) of this subsection, the application satisfies the requirements of subsection (c) of this section, the Panel shall issue a permit for noncompliance to the operator. If, in the case of an application for a permit for noncompliance with the 2.0 milligram standard established by paragraph (2) of this subsection, the application satisfies the requirements of subsection (c) of this section and the Panel determines that the applicant will be unable to comply with such standard, the Panel shall issue to the operator a permit for noncompliance.

(4) In any case in which an operator, who has been issued a permit (including a renewal permit) for noncompliance under this section, determines, not more than ninety days prior to the expiration date of such permit, that he still is unable to comply with the standard established by paragraph (1) of this subsection or the standard established by paragraph (2) of this subsection, as appropriate, he may file with the Panel an application for renewal of the permit. Upon receipt of such application, the Panel, if it determines, after all interested persons have been notified and given an opportunity for a public hearing under section 5 of this Act, that the application is in compliance with the provisions of subsection (c) of this section, and that the applicant will be unable to comply with such standard, may renew the permit.

(5) Any such permit or renewal thereof so issued shall be in effect for a period not to exceed one year and shall entitle the permittee during such period to maintain continuously the average concentration of respirable dust in the mine atmosphere during each shift in the working places of such mine to which the permit applies at a level specified by the Panel, which shall be at the lowest level which the application shows the conditions, technology applicable to such mine, and other available and effective control techniques and methods will permit, but in no event shall such level exceed 4.5 milligrams of dust per cubic meter of air during the period when the 3.0 milligram standard is in effect, or 3.0 milligrams of dust per cubic meter of air during the period when the 2.0 milligram standard is in effect.

(6) No permit or renewal thereof for noncompliance shall entitle any operator to an extension of time beyond eighteen months from the date of enactment of this Act to comply with the 3.0 milligram standard established by paragraph (1) of this subsection, or beyond seventy-two months from the date of enactment of this Act to comply with the 2.0 milligram standard established by paragraph (2) of this subsection.

(c) Any application for an initial or renewal permit made pursuant to this section shall contain--

(1) a representation by the applicant and the engineer conducting the survey referred to in paragraph (2) of this subsection that the applicant is unable to comply with the standard applicable under subsection (b)(1) or (b)(2) of this section at specified working places because the technology for reducing the concentration of respirable dust at such places is not available, or because of the lack of other effective control techniques or methods, or because of any combination of such reasons;

(2) an identification of the working places in such mine for which the permit is requested; the results of an engineering survey by a certified engineer of the respirable dust conditions of each working place of the mine with respect to which such application is filed and the ability to reduce such dust to the level required to be maintained in such place under this section; a description of the ventilation system of the mine and its capacity; the quantity and velocity of air regularly reaching the working faces; the method of mining; the amount and pressure of the water, if any, reaching the working faces; the number, location,

and type of sprays, if any; action taken to reduce such dust; and such other information as the Panel may require; and

(3) statements by the applicant and the engineer conducting such survey, of the means and methods to be employed to achieve compliance with the applicable standard, the progress made toward achieving compliance, and an estimate of when compliance can be achieved.

(d) Beginning six months after the operative date of this title and from time to time thereafter, the Secretary of Health, Education, and Welfare shall establish, in accordance with the provisions of section 101 of this Act, a schedule reducing the average concentration of respirable dust in the mine atmosphere during each shift to which each miner in the active workings is exposed below the levels established in this section to a level of personal exposure which will prevent new incidences of respiratory disease and the further development of such disease in any person. Such schedule shall specify the minimum time necessary to achieve such levels taking into consideration present and future advancements in technology to reach these levels.

(e) References to concentrations of respirable dust in this title mean the average concentration of respirable dust measured with a device approved by the Secretary and the Secretary of Health, Education, and Welfare.

(f) For the purpose of this title, the term "average concentration" means a determination which accurately represents the atmospheric conditions with regard to respirable dust to which each miner in the active workings of a mine is exposed (1) as measured, during the 18 month period following the date of enactment of this Act, over a number of continuous production shifts to be determined by the Secretary and the Secretary of Health, Education, and Welfare, and (2) as measured thereafter, over a single shift only, unless the Secretary and the Secretary of Health, Education, and Welfare find, in accordance with the provisions of section 101 of this Act, that such single shift measurement will not, after applying valid statistical techniques to such measurement, accurately represent such atmospheric conditions during such shift.

(g) The Secretary shall cause to be made such frequent spot inspections as he deems appropriate of the active workings of coal mines for the purpose of obtaining compliance with the provisions of this title.

(h) Respiratory equipment approved by the Secretary and the Secretary of Health, Education, and Welfare shall be made available to all persons whenever exposed to concentrations of respirable dust in excess of the levels required to be maintained under this Act. Use of respirators shall not be substituted for environmental control measures in the active workings. Each operator shall maintain a supply of respiratory equipment adequate to deal with occurrences of concentrations of respirable dust in the mine atmosphere in excess of the levels required to be maintained under this Act.

MEDICAL EXAMINATIONS

SEC. 203. (a) The operator of a coal mine shall cooperate with the Secretary of Health, Education, and Welfare in making available to each miner working in a coal mine the opportunity to have a chest roentgenogram within eighteen months after the date of enactment of this Act, a second chest roentgenogram within three years thereafter, and subsequent chest roentgenograms at such intervals thereafter of not to exceed five years as the Secretary of Health, Education, and Welfare prescribes. Each worker who begins work in a coal mine for the first time shall be given, as soon as possible after commencement of his employment, and again three years later if he is still engaged in coal mining, a chest roentgenogram; and in the event the second such chest roentgenogram shows evidence of the development of pneumoconiosis the worker shall be given, two years later if he is still engaged in coal mining, an additional chest roentgenogram. All chest roentgenograms shall be given in accordance with specifications prescribed by the Secretary of Health, Education, and Welfare and shall be supplemented by such other tests as the Secretary of Health, Education, and Welfare deems necessary. The films shall be read and classified in a manner to be prescribed by the Secretary of Health, Education, and Welfare and the results of each reading on each such person and of such tests shall be submitted to the Secretary and to the Secretary of Health, Education, and Welfare, and, at the request of the miner, to his physician. The Secretary shall also submit such results to such miner and advise him of his rights under this Act related thereto. Such specifications, readings, classifications, and tests shall, to the greatest degree possible, be uniform for all coal mines and miners in such mines.

(b)(1) On and after the operative date of this title, any miner who, in the judgment of the Secretary of Health, Education, and Welfare based upon such reading or other medical examinations, shows evidence of the development of pneumoconiosis shall be afforded the option of transferring from his position to another

position in any area of the mine, for such period or periods as may be necessary to prevent further development of such disease, where the concentration of respirable dust in the mine atmosphere is not more than 2.0 milligrams of dust per cubic meter of air.

(2) Effective three years after the date of enactment of this Act, any miner who, in the judgment of the Secretary of Health, Education, and Welfare based upon such reading or other medical examinations, shows evidence of the development of pneumoconiosis shall be afforded the option of transferring from his position to another position in any area of the mine, for such period or periods as may be necessary to prevent further development of such disease, where the concentration of respirable dust in the mine atmosphere is not more than 1.0 milligrams of dust per cubic meter of air, or if such level is not attainable in such mine, to a position in such mine where the concentration of respirable dust is the lowest attainable below 2.0 milligrams per cubic meter of air.

(3) Any miner so transferred shall receive compensation for such work at not less than the regular rate of pay received by him immediately prior to his transfer.

(c) No payment may be required of any miner in connection with any examination or test given him pursuant to this title. Where such examinations or tests cannot be given, due to the lack of adequate medical or other necessary facilities or personnel, in the locality where the miner resides, arrangements shall be made to have them conducted, in accordance with the provisions of this title, in such locality by the Secretary of Health, Education, and Welfare, or by an appropriate person, agency, or institution, public or private, under an agreement or arrangement between the Secretary of Health, Education, and Welfare and such person, agency, or institution. The operator of the mine shall reimburse the Secretary of Health, Education, and Welfare, or such person, agency, or institution, as the case may be, for the cost of conducting each examination or test made, in accordance with this title, and shall pay whatever other costs are necessary to enable the miner to take such examinations or tests.

(d) If the death of any active miner occurs in any coal mine, or if the death of any active or inactive miner occurs in any other place, the Secretary of Health, Education, and Welfare is authorized to provide for an autopsy to be performed on such miner, with the consent of his surviving widow or, if he has no such widow, then with the consent of his surviving next of kin. The results of such autopsy shall be submitted to the Secretary of Health, Education, and Welfare and, with the consent of such survivor, to the miner's physician or other interested person. Such autopsy shall be paid for by the Secretary of Health, Education, and Welfare.

DUST FROM DRILLING ROCK

SEC. 204. The dust resulting from drilling in rock shall be controlled by the use of permissible dust collectors, or by water or water with a wetting agent, or by ventilation, or by any other method or device approved by the Secretary which is at least as effective in controlling such dust. Respiratory equipment approved by the Secretary and the Secretary of Health, Education, and Welfare shall be provided persons exposed for short periods to inhalation hazards from gas, dusts, fumes, or mist. When the exposure is for prolonged periods, other measures to protect such persons or to reduce the hazard shall be taken.

DUST STANDARD WHEN QUARTZ IS PRESENT

SEC. 205. In coal mining operations where the concentration of respirable dust in the mine atmosphere of any working place contains more than 5 per centum quartz, the Secretary of Health, Education, and Welfare shall prescribe an appropriate formula for determining the applicable respirable dust standard under this title for such working place and the Secretary shall apply such formula in carrying out his duties under this title.

NOISE STANDARD

SEC. 206. On and after the operative date of this title, the standards on noise prescribed under the Walsh-Healey Public Contracts Act, as amended, in effect October 1, 1969, shall be applicable to each coal mine and each operator of such mine shall comply with them. Within six months after the date of enactment of this Act, the Secretary of Health, Education, and Welfare shall establish, and the Secretary shall publish, as provided in section 101 of this Act, proposed mandatory health standards establishing maximum noise exposure levels for all underground coal mines. Beginning six months after the operative date of this title, and at intervals of at least every six months thereafter, the operator of each coal mine shall conduct, in a manner

prescribed by the Secretary of Health, Education, and Welfare, tests by a qualified person of the noise level at the mine and report and certify the results to the Secretary and the Secretary of Health, Education, and Welfare. In meeting such standard under this section, the operator shall not require the use of any protective device or system, including personal devices, which the Secretary or his authorized representative finds to be hazardous or cause a hazard to the miners in such mine.

TITLE III--INTERIM MANDATORY SAFETY STANDARDS FOR UNDERGROUND COAL MINES

COVERAGE

SEC. 301. (a) The provisions of sections 302 through 318 of this title shall be interim mandatory safety standards applicable to all underground coal mines until superseded in whole or in part by improved mandatory safety standards promulgated by the Secretary under the provisions of section 101 of this Act, and shall be enforced in the same manner and to the same extent as any mandatory safety standard promulgated under section 101 of this Act. Any orders issued in the enforcement of the interim standards set forth in this title shall be subject to review as provided in title I of this Act.

(b) The purpose of this title is to provide for the immediate application of mandatory safety standards developed on the basis of experience and advances in technology and to prevent newly created hazards resulting from new technology in coal mining. The Secretary of the Interior in coordination with the Secretary shall immediately initiate studies, investigations, and research to further upgrade such standards and to develop and promulgate new and improved standards promptly that will provide increased protection to the miners, particularly in connection with hazards from trolley wires, trolley feeder wires, and signal wires, the splicing and use of trailing cables, and in connection with improvements in vulcanizing of electric conductors, improvement in roof control measures, methane drainage in advance of mining, improved methods of measuring methane and other explosive gases and oxygen concentrations, and the use of improved underground equipment and other sources of power for such equipment.

ROOF SUPPORT

SEC. 302. (a) Each operator shall undertake to carry out on a continuing basis a program to improve the roof control system of each coal mine and the means and measures to accomplish such system. The roof and ribs of all active underground roadways, travelways, and working places shall be supported or otherwise controlled adequately to protect persons from falls of the roof or ribs. A roof control plan and revisions thereof suitable to the roof conditions and mining system of each coal mine and approved by the Secretary shall be adopted and set out in printed form within sixty days after the operative date of this title. The plan shall show the type of support and spacing approved by the Secretary. Such plan shall be reviewed periodically, at least every six months by the Secretary, taking into consideration any falls of roof or ribs or inadequacy of support of roof or ribs. No person shall proceed beyond the last permanent support unless adequate temporary support is provided or unless such temporary support is not required under the approved roof control plan and the absence of such support will not pose a hazard to the miners. A copy of the plan shall be furnished the Secretary or his authorized representative and shall be available to the miners and their representatives.

(b) The method of mining followed in any coal mine shall not expose the miner to unusual dangers from roof falls caused by excessive widths of rooms and entries or faulty pillar recovery methods.

(c) The operator, in accordance with the approved plan, shall provide at or near each working face and at such other locations in the coal mine as the Secretary may prescribe an ample supply of suitable materials of proper size with which to secure the roof of all working places in a safe manner. Safety posts, jacks, or other approved devices shall be used to protect the workmen when roof material is being taken down, crossbars are being installed, roof boltholes are being drilled, roof bolts are being installed, and in such other circumstances as may be appropriate. Loose roof and overhanging or loose faces and ribs shall be taken down or supported. Except in the case of recovery work, supports knocked out shall be replaced promptly.

(d) When installation of roof bolts is permitted, such roof bolts shall be tested in accordance with the approved roof control plan.

(e) Roof bolts shall not be recovered where complete extractions of pillars are attempted, where adjacent to

clay veins, or at the locations of other irregularities, whether natural or otherwise, that induce abnormal hazards. Where roof bolt recovery is permitted, it shall be conducted only in accordance with methods prescribed in the approved roof control plan, and shall be conducted by experienced miners and only where adequate temporary support is provided.

(f) Where miners are exposed to danger from falls of roof, face, and ribs the operator shall examine and test the roof, face, and ribs before any work or machine is started, and as frequently thereafter as may be necessary to insure safety. When dangerous conditions are found, they shall be corrected immediately.

VENTILATION

SEC. 303. (a) All coal mines shall be ventilated by mechanical ventilation equipment installed and operated in a manner approved by an authorized representative of the Secretary and such equipment shall be examined daily and a record shall be kept of such examination.

(b) All active workings shall be ventilated by a current of air containing not less than 19.5 volume per centum of oxygen, not more than 0.5 volume per centum of carbon dioxide, and no harmful quantities of other noxious or poisonous gases; and the volume and velocity of the current of air shall be sufficient to dilute, render harmless, and to carry away, flammable, explosive, noxious, and harmful gases, and dust, and smoke and explosive fumes. The minimum quantity of air reaching the last open crosscut in any pair or set of developing entries and the last open crosscut in any pair or set of rooms shall be nine thousand cubic feet a minute, and the minimum quantity of air reaching the intake end of a pillar line shall be nine thousand cubic feet a minute. The minimum quantity of air in any coal mine reaching each working face shall be three thousand cubic feet a minute. Within three months after the operative date of this title, the Secretary shall prescribe the minimum velocity and quantity of air reaching each working face of each coal mine in order to render harmless and carry away methane and other explosive gases and to reduce the level of respirable dust to the lowest attainable level. The authorized representative of the Secretary may require in any coal mine a greater quantity and velocity of air when he finds it necessary to protect the health or safety of miners. Within one year after the operative date of this title, the Secretary or his authorized representative shall prescribe the maximum respirable dust level in the intake aircourses in each coal mine in order to reduce such level to the lowest attainable level. In robbing areas of anthracite mines, where the air currents cannot be controlled and measurements of the air cannot be obtained, the air shall have perceptible movement.

(c)(1) Properly installed and adequately maintained line brattice or other approved devices shall be continuously used from the last open crosscut of an entry or room of each working section to provide adequate ventilation to the working faces for the miners and to remove flammable, explosive, and noxious gases, dust, and explosive fumes, unless the Secretary or his authorized representative permits an exception to this requirement, where such exception will not pose a hazard to the miners. When damaged by falls or otherwise, such line brattice or other devices shall be repaired immediately.

(2) The space between the line brattice or other approved device and the rib shall be large enough to permit the flow of a sufficient volume and velocity of air to keep the working face clear of flammable, explosive, and noxious gases, dust, and explosive fumes.

(3) Brattice cloth used underground shall be of flame-resistant material.

(d)(1) Within three hours immediately preceding the beginning of any shift, and before any miner in such shift enters the active workings of a coal mine, certified persons designated by the operator of the mine shall examine such workings and any other underground area of the mine designated by the Secretary or his authorized representative. Each such examiner shall examine every working section in such workings and shall make tests in each such working section for accumulations of methane with means approved by the Secretary for detecting methane and shall make tests for oxygen deficiency with a permissible flame safety lamp or other means approved by the Secretary; examine seals and doors to determine whether they are functioning properly; examine and test the roof, face, and rib conditions in such working section; examine active roadways, travelways, and belt conveyors on which men are carried, approaches to abandoned areas, and accessible falls in such section for hazards: test by means of an anemometer or other device approved by the Secretary to determine whether the air in each split is traveling in its proper course and in normal volume and velocity: and examine for such other hazards and violations of the mandatory health or safety standards, as an authorized representative of the Secretary may from time to time require. Belt conveyors on which coal is carried shall be

examined after each coal-producing shift has begun. Such mine examiner shall place his initials and the date and time at all places he examines. If such mine examiner finds a condition which constitutes a violation of a mandatory health or safety standard or any condition which is hazardous to persons who may enter or be in such area, he shall indicate such hazardous place by posting a "DANGER" sign conspicuously at all points which persons entering such hazardous place would be required to pass, and shall notify the operator of the mine. No person, other than an authorized representative of the Secretary or a State mine inspector or persons authorized by the operator to enter such place for the purpose of eliminating the hazardous condition therein, shall enter such place while such sign is so posted. Upon completing his examination, such mine examiner shall report the results of his examination to a person, designated by the operator to receive such reports at a designated station on the surface of the mine, before other persons enter the underground areas of such mine to work in such shift. Each such mine examiner shall also record the results of his examination with ink or indelible pencil in a book approved by the Secretary kept for such purpose in an area on the surface of the mine chosen by the operator to minimize the danger of destruction by fire or other hazard, and the record shall be open for inspection by interested persons.

(2) No person (other than certified persons designated under this subsection) shall enter any underground area, except during any shift, unless an examination of such area as prescribed in this subsection has been made within eight hours immediately preceding his entrance into such area.

(e) At least once during each coal-producing shift, or more often if necessary for safety, each working section shall be examined for hazardous conditions by certified persons designated by the operator to do so. Any such condition shall be corrected immediately. If such condition creates an imminent danger, the operator shall withdraw all persons from the area affected by such condition to a safe area, except those persons referred to in section 104(d) of this Act, until the danger is abated. Such examination shall include tests for methane with a means approved by the Secretary for detecting methane and for oxygen deficiency with a permissible flame safety lamp or other means approved by the Secretary.

(f) In addition to the pre-shift and daily examinations required by this section, examinations for hazardous conditions, including tests for methane, and for compliance with the mandatory health or safety standards, shall be made at least once each week by a certified person designated by the operator in the return of each split of air where it enters the main return, on pillar falls, at seals, in the main return, at least one entry of each intake and return aircourse in its entirety, idle workings, and, insofar as safety considerations permit, abandoned areas. Such weekly examination need not be made during any week in which the mine is idle for the entire week, except that such examination shall be made before any other miner returns to the mine. The person making such examinations and tests shall place his initials and the date and time at the places examined, and if any hazardous condition is found, such condition shall be reported to the operator promptly. Any hazardous condition shall be corrected immediately. If such condition creates an imminent danger, the operator shall withdraw all persons from the area affected by such condition to a safe area, except those persons referred to in section 104(d) of this Act, until such danger is abated. A record of these examinations, tests, and actions taken shall be recorded in ink or indelible pencil in a book approved by the Secretary kept for such purpose in an area on the surface of the mine chosen by the mine operator to minimize the danger of destruction by fire or other hazard, and the record shall be open for inspection by interested persons.

(g) At least once each week, a qualified person shall measure the volume of air entering the main intakes and leaving the main returns, the volume passing through the last open crosscut in any pair or set of developing entries and the last open crosscut in any pair or set of rooms, the volume and, when the Secretary so prescribes, the velocity reaching each working face, the volume being delivered to the intake end of each pillar line, and the volume at the intake and return of each split of air. A record of such measurements shall be recorded in ink or indelible pencil in a book approved by the Secretary kept for such purpose in an area on the surface of the coal mine chosen by the operator to minimize the danger of destruction by fire or other hazard, and the record shall be open for inspection by interested persons.

(h)(1) At the start of each shift, tests for methane shall be made at each working place immediately before electrically operated equipment is energized. Such tests shall be made by qualified persons. If 1.0 volume per centum or more of methane is detected, electrical equipment shall not be energized, taken into, or operated in, such working place until the air therein contains less than 1.0 volume per centum of methane. Examinations for methane shall be made during the operation of such equipment at intervals of not more than twenty minutes during each shift, unless more frequent examinations are required by an authorized representative of the Secretary. In conducting such tests, such person shall use means approved by the Secretary for detecting

methane.

(2) If at any time the air at any working place, when tested at a point not less than twelve inches from the roof, face, or rib, contains 1.0 volume per centum or more of methane, changes or adjustments shall be made at once in the ventilation in such mine so that such air shall contain less than 1.0 volume per centum of methane. While such changes or adjustments are underway and until they have been achieved, power to electric face equipment located in such place shall be cut off, no other work shall be permitted in such place, and due precautions shall be carried out under the direction of the operator or his agent so as not to endanger other areas of the mine. If at any time such air contains 1.5 volume per centum or more of methane, all persons, except those referred to in section 104(d) of this Act, shall be withdrawn from the area of the mine endangered thereby to a safe area, and all electric power shall be cut off from the endangered area of the mine, until the air in such working place shall contain less than 1.0 volume per centum of methane.

(i)(1) If, when tested, a split of air returning from any working section contains 1.0 volume per centum or more of methane, changes or adjustments shall be made at once in the ventilation in the mine so that such returning air shall contain less than 1.0 volume per centum of methane. Tests under this paragraph and paragraph (2) of this subsection shall be made at four-hour intervals during each shift by a qualified person designated by the operator of the mine. In making such tests, such person shall use means approved by the Secretary for detecting methane.

(2) If, when tested, a split of air returning from any working section contains 1.5 volume per centum or more of methane, all persons, except those persons referred to in section 104(d) of this Act, shall be withdrawn from the area of the mine endangered thereby to a safe area and all electric power shall be cut off from the endangered area of the mine, until the air in such split shall contain less than 1.0 volume per centum of methane.

(3) In virgin territory, if the quantity of air in a split ventilating the active workings in such territory equals or exceeds twice the minimum volume of air prescribed in subsection (b) of this section for the last open crosscut, if the air in the split returning from such workings does not pass over trolley wires or trolley feeder wires, and if a certified person designated by the operator is continually testing the methane content of the air in such split during mining operations in such workings, it shall be necessary to withdraw all persons, except those referred to in section 104(d) of this Act, from the area of the mine endangered thereby to a safe area and all electric power shall be cut off from the endangered area only when the air returning from such workings contains 2.0 volume per centum or more of methane.

(j) Air which has passed by an opening of any abandoned area shall not be used to ventilate any working place in the coal mine if such air contains 0.25 volume per centum or more of methane. Examinations of such air shall be made during the pre-shift examination required by subsection (d) of this section. In making such tests, a certified person designated by the operator shall use means approved by the Secretary for detecting methane. For the purposes of this subsection, an area within a panel shall not be deemed to be abandoned until such panel is abandoned.

(k) Air that has passed through an abandoned area or an area which is inaccessible or unsafe for inspection shall not be used to ventilate any working place in any mine. No air which has been used to ventilate an area from which the pillars have been removed shall be used to ventilate any working place in a mine, except that such air, if it does not contain 0.25 volume per centum or more of methane, may be used to ventilate enough advancing working places immediately adjacent to the line of retreat to maintain an orderly sequence of pillar recovery on a set of entries.

(l) The Secretary or his authorized representative shall require, as an additional device for detecting concentrations of methane, that a methane monitor, approved as reliable by the Secretary after the operative date of this title, be installed, when available, on any electric face cutting equipment, continuous miner, longwall face equipment, and loading machine, except that no monitor shall be required to be installed on any such equipment prior to the date on which such equipment is required to be permissible under section 305(a) of this title. When installed on any such equipment, such monitor shall be kept operative and properly maintained and frequently tested as prescribed by the Secretary. The sensing device of such monitor shall be installed as close to the working face as practicable. Such monitor shall be set to deenergize automatically such equipment when such monitor is not operating properly and to give a warning automatically when the concentration of methane reaches a maximum percentage determined by an authorized representative of the Secretary which shall not

be more than 1.0 volume per centum of methane. An authorized representative of the Secretary shall require such monitor to deenergize automatically equipment on which it is installed when the concentration of methane reaches a maximum percentage determined by such representative which shall not be more than 2.0 volume per centum of methane.

(m) Idle and abandoned areas shall be inspected for methane and for oxygen deficiency and other dangerous conditions by a certified person with means approved by the Secretary as soon as possible but not more than three hours before other persons are permitted to enter or work in such areas. Persons, such as pumpmen, who are required regularly to enter such areas in the performance of their duties, and who are trained and qualified in the use of means approved by the Secretary for detecting methane and in the use of a permissible flame safety lamp or other means approved by the Secretary for detecting oxygen deficiency are authorized to make such examinations for themselves, and each such person shall be properly equipped and shall make such examinations upon entering any such area.

(n) Immediately before an intentional roof fail is made, pillar workings shall be examined by a qualified person designated by the operator to ascertain whether methane is present. Such person shall use means approved by the Secretary for detecting methane. If in such examination methane is found in amounts of 1.0 volume per centum or more, such roof fail shall not be made until changes or adjustments are made in the ventilation so that the air shall contain less than 1.0 volume per centum of methane.

(o) A ventilation system and methane and dust control plan and revisions thereof suitable to the conditions and the mining system of the coal mine and approved by the Secretary shall be adopted by the operator and set out in printed form within ninety days after the operative date of this title. The plan shall show the type and location of mechanical ventilation equipment installed and operated in the mine, such additional or improved equipment as the Secretary may require, the quantity and velocity of air reaching each working face, and such other information as the Secretary may require. Such plan shall be reviewed by the operator and the Secretary at least every six months.

(p) Each operator shall provide for the proper maintenance and care of the permissible flame safety lamp or any other approved device for detecting methane and oxygen deficiency by a person trained in such maintenance, and, before each shift, care shall be taken to insure that such lamp or other device is in a permissible condition.

(q) Where areas are being pillared on the operative date of this title without bleeder entries, or without bleeder systems or an equivalent means, pillar recovery may be completed in the area, to the extent approved by an authorized representative of the Secretary, if the edges of pillar lines adjacent to active workings are ventilated with sufficient air to keep the air in open areas along the pillar lines below 1.0 volume per centum of methane.

(r) Each mechanized mining section shall be ventilated with a separate split of intake air directed by overcasts, undercasts, or the equivalent, except an extension of time, not in excess of nine months, may be permitted by the Secretary, under such conditions as he may prescribe, whenever he determines that this subsection cannot be complied with on the operative date of this title.

(s) In all underground areas of a coal mine, immediately before firing each shot or group of multiple shots and after blasting is completed, examinations for methane shall be made by a qualified person with means approved by the Secretary for detecting methane. If methane is found in amounts of 1.0 volume per centum or more, changes or adjustments shall be made at once in the ventilation so that the air shall contain less than 1.0 volume per centum of methane. No shots shall be fired until the air contains less than 1.0 volume per centum of methane.

(t) Each operator shall adopt a plan within sixty days after the operative date of this title which shall provide that when any mine fan stops, immediate action shall be taken by the operator or his agent (1) to withdraw all persons from the working sections, (2) to cut off the power in the mine in a timely manner, (3) to provide for restoration of power and resumption of work if ventilation is restored within a reasonable period as set forth in the plan after the working places and other active workings where methane is likely to accumulate are reexamined by a certified person to determine if methane in amounts of 1.0 volume per centum or more exists therein, and (4) to provide for withdrawal of all persons from the mine if ventilation cannot be restored within such reasonable time. The plan and revisions thereof approved by the Secretary shall be set out in printed form and a copy shall be furnished to the Secretary or his authorized representative.

(u) Changes in ventilation which materially affect the main air current or any split thereof and which may affect the safety of persons in the coal mine shall be made only when the mine is idle. Only those persons engaged in making such changes shall be permitted in the mine during the change. Power shall be removed from the areas affected by the change before work starts to make the change and shall not be restored until the effect of the change has been ascertained and the affected areas determined to be safe by a certified person.

(v) The mine foreman shall read and countersign promptly the daily reports of the pre-shift examiner and assistant mine foremen, and he shall read and countersign promptly the weekly report covering the examinations for hazardous conditions. Where such reports disclose hazardous conditions, they shall be corrected promptly. If such conditions create an imminent danger, the operator shall withdraw all persons from, or prevent any person from entering, as the case may be, the area affected by such conditions, except those persons referred to in section 104(d) of this Act, until such danger is abated. The mine superintendent or assistant superintendent of the mine shall also read and countersign the daily and weekly reports of such persons.

(w) Each day, the mine foreman and each of his assistants shall enter plainly and sign with ink or indelible pencil in a book approved by the Secretary provided for that purpose a report of the condition of the mine or portion thereof under his supervision, which report shall state clearly the location and nature of any hazardous condition observed by him or reported to him during the day and what action was taken to remedy such condition. Such book shall be kept in an area on the surface of the mine chosen by the operator to minimize the danger of destruction by fire or other hazard, and shall be open for inspection by interested persons.

(x) Before a coal mine is reopened after having been abandoned or declared inactive by the operator, the Secretary shall be notified, and an inspection shall be made of the entire mine by an authorized representative of the Secretary before mining operations commence.

(y)(1) In any coal mine opened after the operative date of this title, the entries used as intake and return aircourses shall be separated from belt haulage entries, and each operator of such mine shall limit the velocity of the air coursed through belt haulage entries to the amount necessary to provide an adequate supply of oxygen in such entries, and to insure that the air therein shall contain less than 1.0 volume per centum of methane, and such air shall not be used to ventilate active working places. Whenever an authorized representative of the Secretary finds, in the case of any coal mine opened on or prior to the operative date of this title which has been developed with more than two entries, that the conditions in the entries, other than belt haulage entries, are such as to permit adequately the coursing of intake or return air through such entries, (1) the belt haulage entries shall not be used to ventilate, unless such entries are necessary to ventilate, active working places, and (2) when the belt haulage entries are not necessary to ventilate the active working places, the operator of such mine shall limit the velocity of the air coursed through the belt haulage entries to the amount necessary to provide an adequate supply of oxygen in such entries, and to insure that the air therein shall contain less than 1.0 volume per centum of methane.

(2) In any coal mine opened on or after the operative date of this title, or, in the case of a coal mine opened prior to such date, in any new working section of such mine, where trolley haulage systems are maintained and where trolley wires or trolley feeder wires are installed, an authorized representative of the Secretary shall require a sufficient number of entries or rooms as intake aircourses in order to limit, as prescribed by the Secretary, the velocity of air currents on such haulageways for the purpose of minimizing the hazards associated with fires and dust explosions in such haulageways.

(z)(1) While pillars are being extracted in any area of a coal mine, such area shall be ventilated in the manner prescribed by this section.

(2) Within nine months after the operative date of this title, all areas from which pillars have been wholly or partially extracted and abandoned areas, as determined by the Secretary or his authorized representative, shall be ventilated by bleeder entries or by bleeder systems or equivalent means, or be sealed, as determined by the Secretary or his authorized representative. When ventilation of such areas is required, such ventilation shall be maintained so as continuously to dilute, render harmless, and carry away methane and other explosive gases within such areas and to protect the active workings of the mine from the hazards of such methane and other explosive gases. Air coursed through underground areas from which pillars have been wholly or partially extracted which enters another split of air shall not contain more than 2.0 volume per centum of methane, when

tested at the point it enters such other split. When sealing is required, such seals shall be made in an approved manner so as to isolate with explosion-proof bulkheads such areas from the active workings of the mine.

(3) In the case of mines opened on or after the operative date of this title, or in the case of working sections opened on or after such date in mines opened prior to such date, the mining system shall be designed in accordance with a plan and revisions thereof approved by the Secretary and adopted by such operator so that, as each working section of the mine is abandoned, it can be isolated from the active workings of the mine with explosion-proof seals or bulkheads.

COMBUSTIBLE MATERIALS AND ROCK DUSTING

SEC. 304. (a) Coal dust, including float coal dust deposited on rock-dusted surfaces, loose coal, and other combustible materials, shall be cleaned up and not be permitted to accumulate in active workings, or on electric equipment therein.

(b) Where underground mining operations in active workings create or raise excessive amounts of dust, water or water with a wetting agent added to it, or other no less effective methods approved by the Secretary or his authorized representative, shall be used to abate such dust. In working places, particularly in distances less than forty feet from the face, water, with or without a wetting agent, or other no less effective methods approved by the Secretary or his authorized representative, shall be applied to coal dust on the ribs, roof, and floor to reduce dispersibility and to minimize the explosion hazard.

(c) All underground areas of a coal mine, except those areas in which the dust is too wet or too high in incombustible content to propagate an explosion, shall be rock dusted to within forty feet of all working faces, unless such areas are inaccessible or unsafe to enter or unless the Secretary or his authorized representative permits an exception upon his finding that such exception will not pose a hazard to the miners. All crosscuts that are less than forty feet from a working face shall also be rock dusted.

(d) Where rock dust is required to be applied, it shall be distributed upon the top, floor, and sides of all underground areas of a coal mine and maintained in such quantities that the incombustible content of the combined coal dust, rock dust, and other dust shall be not less than 65 per centum, but the incombustible content in the return aircourses shall be no less than 80 per centum. Where methane is present in any ventilating current, the per centum of incombustible content of such combined dusts shall be increased 1.0 and 0.4 per centum for each 0.1 per centum of methane where 65 and 80 per centum, respectively, of incombustibles are required.

(e) Subsections (b) through (d) of this section shall not apply to underground anthracite mines.

ELECTRICAL EQUIPMENT GENERAL

SEC. 305. (a)(1) Effective one year after the operative date of this title--

- (A) all junction or distribution boxes used for making multiple power connections in by the last open crosscut shall be permissible;
- (B) all handheld electric drills, blower and exhaust fans, electric pumps, and such other low horsepower electric face equipment as the Secretary may designate within two months after the operative date of this title which are taken into or used in by the last open crosscut of any coal mine shall be permissible;
- (C) all electric face equipment which is taken into or used in by the last open crosscut of any coal mine classified under any provision of law as gassy prior to the operative date of this title shall be permissible; and
- (D) all other electric face equipment which is taken into or used in by the last crosscut of any coal mine, except a coal mine referred to in paragraph (2) of this subsection, which has not been classified under any provision of law as a gassy mine prior to the operative date of this title shall be permissible;

(2) Effective four years after the operative date of this title, all electric face equipment, other than equipment referred to in paragraph (1)(B) of this subsection, which is taken into or used in by the last open crosscut of any coal mine which is operated entirely in coal seams located above the watertable and which has not been classified under any provision of law as a gassy mine prior to the operative date of this title and in which one or more openings were made prior to the date of enactment of this Act, shall be permissible, except that any

operator of such mine who is unable to comply with the provisions of this paragraph on such effective date may file with the Panel an application for a permit for noncompliance ninety days prior to such date. If the Panel determines, after notice to all interested persons and an opportunity for a public hearing under section 5 of this Act, that such application satisfies the provisions of paragraph (10) of this subsection and that such operator, despite his diligent efforts, will be unable to comply with such provisions, the Panel may issue to such operator such a permit. Such permit shall entitle the permittee to an additional extension of time to comply with the provisions of this paragraph of not to exceed twenty-four months, as determined by the Panel, from such effective date.

(3) The operator of each coal mine shall maintain in permissible condition all electric face equipment required by this subsection to be permissible which is taken into or used in by the last open crosscut of any such mine.

(4) Each operator of a coal mine shall, within two months after the operative date of this title, file with the Secretary a statement listing all electric face equipment by type and manufacturer being used by such operator in connection with mining operations in such mine as of the date of such filing, and stating whether such equipment is permissible and maintained in permissible condition or is nonpermissible on such date of filing, and, if nonpermissible, whether such nonpermissible equipment has ever been rated as permissible, and such other information as the Secretary may require.

(5) The Secretary shall promptly conduct a survey as to the total availability of new or rebuilt permissible electric face equipment and replacement parts for such equipment and, within six months after the operative date of this title, publish the results of such survey.

(6) Any operator of a coal mine who is unable to comply with the provisions of paragraph (1)(D) of this subsection within one year after the operative date of this title may file with the Panel an application for a permit for noncompliance. If the Panel determines that such application satisfies the provisions of paragraph (10) of this subsection, the Panel shall issue to such operator a permit for noncompliance. Such permit shall entitle the permittee to an extension of time to comply with such provisions of paragraph (1)(D) of not to exceed twelve months, as determined by the Panel, from the date that compliance with the provisions of paragraph (1)(D) of this subsection is required.

(7) Any operator of a coal mine issued a permit under paragraph (6) of this subsection who, ninety days prior to the termination of such permit, or renewal thereof, determines that he will be unable to comply with the provisions of paragraph (1)(D) of this subsection upon the expiration of such permit may file with the Panel an application for renewal thereof. Upon receipt of such application, the Panel, if it determines, after notice to all interested persons and an opportunity for a public hearing under section 5 of this Act, that such application satisfies the provisions of paragraph (10) of this subsection and that such operator, despite his diligent efforts, will be unable to comply with the provisions of paragraph (1)(D), may renew the permit for a period not exceeding twelve months.

(8) Any permit or renewal thereof issued pursuant to this subsection shall entitle the permittee to use such nonpermissible electric face equipment specified in the permit during the term of such permit.

(9) Permits for noncompliance issued under paragraphs (6) or (7) of this subsection shall, in the aggregate, not extend the period of noncompliance more than forty-eight months after the date of enactment of this Act.

(10) Any application for a permit of noncompliance filed under this subsection shall contain a statement by the operator--

(A) that he is unable to comply with paragraph (1)(D) or paragraph (2) of this subsection, as appropriate, within the time prescribed;

(B) listing the nonpermissible electric face equipment being used by such operator in connection with mining operations in such mine on the operative date of this title and the date of the application by type and manufacturer for which a noncompliance permit is requested and whether such equipment had ever been rated as permissible;

(C) setting forth the actions taken from and after the operative date of this title to comply with paragraph (1)(D) or paragraph (2) of this subsection, as appropriate, together with a plan setting forth a schedule of compliance with said paragraphs for each such equipment referred to in such paragraphs and being used by the operator in connection with mining operations in such mine with respect to which such permit

is requested and the means and measures to be employed to achieve compliance; and
(D) including such other information as the Panel may require.

(11) No permit for noncompliance shall be issued under this subsection for any nonpermissible electric face equipment, unless such equipment was being used by an operator in connection with the mining operations in a coal mine on the operative date of this title.

(12) Effective one year after the operative date of this title, all replacement equipment acquired for use in any mine referred to in this subsection shall be permissible and shall be maintained in a permissible condition, and in the event of any major overhaul of any item of equipment in use one year from the operative date of this title such equipment shall be put in, and thereafter maintained in, a permissible condition, unless, in the opinion of the Secretary, such equipment or necessary replacement parts are not available.

(b) A copy of any permit granted under this section shall be mailed immediately to a representative of the miners of the mine to which it pertains, and to the public official or agency of the State charged with administering State laws relating to coal mine health and safety in such mine.

(c) Any coal mine which, prior to the operative date of this title, was classed gassy under any provision of law and was required to use permissible electric face equipment and to maintain such equipment in a permissible condition shall continue to use such equipment and to maintain such equipment in such condition.

(d) All power-connection points, except where permissible power connection units are used, outby the last open crosscut shall be in intake air.

(e) The location and the electrical rating of all stationary electric apparatus in connection with the mine electric system, including permanent cables, switchgear, rectifying substations, transformers, permanent pumps and trolley wires and trolley feeder wires, and settings of all direct-current circuit breakers protecting underground trolley circuits, shall be shown on a mine map. Any changes made in a location, electric rating, or setting shall be promptly shown on the map when the change is made. Such map shall be available to an authorized representative of the Secretary and to the miners in such mine.

(f) All power circuits and electric equipment shall be deenergized before work is done on such circuits and equipment, except when necessary for trouble shooting or testing. In addition, energized trolley wires may be repaired only by a person trained to perform electrical work and to maintain electrical equipment and the operator of such mine shall require that such person wear approved and tested insulated shoes and wireman's gloves. No electrical work shall be performed on low-, medium-, or high-voltage distribution circuits or equipment, except by a qualified person or by a person trained to perform electrical work and to maintain electrical equipment under the direct supervision of a qualified person. Disconnecting devices shall be locked out and suitably tagged by the persons who performed such work, except that, in cases where locking out is not possible, such devices shall be opened and suitably tagged by such persons. Locks or tags shall be removed only by the persons who installed them or, if such persons are unavailable, by persons authorized by the operator or his agent.

(g) All electric equipment shall be frequently examined, tested, and properly maintained by a qualified person to assure safe operating conditions. When a potentially dangerous condition is found on electric equipment, such equipment shall be removed from service until such condition is corrected. A record of such examinations shall be kept and made available to an authorized representative of the Secretary and to the miners in such mine.

(h) All electric conductors shall be sufficient in size and have adequate current-carrying capacity and be of such construction that a rise in temperature resulting from normal operation will not damage the insulating materials.

(i) All electrical connections or splices in conductors shall be mechanically and electrically efficient, and suitable connectors shall be used. All electrical connections or splices in insulated wire shall be reinsulated at least to the same degree of protection as the remainder of the wire.

(j) Cables shall enter metal frames of motors, splice boxes, and electric compartments only through proper fittings. When insulated wires other than cables pass through metal frames the holes shall be substantially bushed with insulated bushings.

(k) All power wires(except trailing cables on mobile equipment, specially designed cables conducting high-voltage power to underground rectifying equipment or transformers, or bare or insulated ground and return wires) shall be supported on well-insulated insulators and shall not contact combustible material, roof, or ribs.

(l) Power wires and cables, except trolley wires, trolley feeder wires, and bare signal wires, shall be insulated adequately and fully protected.

(m) Automatic circuit-breaking devices or fuses of the correct type and capacity shall be installed so as to protect all electric equipment and circuits against short circuit and overloads. Three-phase motors on all electric equipment shall be provided with overload protection that will deenergize all three phases in the event that any phase is overloaded.

(n) In all main power circuits, disconnecting switches shall be installed underground within five hundred feet of the bottoms of shafts and boreholes through which main power circuits enter the underground area of the mine and within five hundred feet of all other places where main power circuits enter the underground area of the mine.

(o) All electric equipment shall be provided with switches or other controls that are safely designed, constructed, and installed.

(p) Each ungrounded, exposed power conductor that leads underground shall be equipped with suitable lightning arresters of approved type within one hundred feet of the point where the circuit enters the mine. Lightning arresters shall be connected to a low resistance grounding medium on the surface which shall be separated from neutral grounds by a distance of not less than twenty-five feet.

(q) No device for the purpose of lighting any coal mine which has not been approved by the Secretary or his authorized representative shall be permitted in such mine.

(r) An authorized representative of the Secretary may require in any mine that electric face equipment be provided with devices that will permit the equipment to be deenergized quickly in the event of an emergency.

TRAILING CABLES

SEC. 306. (a) Trailing cables used in coal mines shall meet the requirements established by the Secretary for flame-resistant cables.

(b) Short-circuit protection for trailing cables shall be provided by an automatic circuit breaker or other no less effective device approved by the Secretary of adequate current-interrupting capacity in each ungrounded conductor. Disconnecting devices used to disconnect power from trailing cables shall be plainly marked and identified and such devices shall be equipped or designed in such a manner that it can be determined by visual observation that the power is disconnected.

(c) When two or more trailing cables junction to the same distribution center, means shall be provided to assure against connecting a trailing cable to the wrong size circuit breaker.

(d) One temporary splice may be made in any trailing cable. Such trailing cable may only be used for the next twenty-four hour period. No temporary splice shall be made in a trailing cable within twenty-five feet of the machine, except cable reel equipment. Temporary splices in trailing cables shall be made in a workmanlike manner and shall be mechanically strong and well insulated. Trailing cables or hand cables which have exposed wires or which have splices that heat or spark under load shall not be used. As used in this subsection, the term "splice" means the mechanical joining of one or more conductors that have been severed.

(e) When permanent splices in trailing cables are made, they shall be--

- (1) mechanically strong with adequate electrical conductivity and flexibility;
- (2) effectively insulated and sealed so as to exclude moisture; and
- (3) vulcanized or otherwise treated with suitable materials to provide flame-resistant qualities and good bonding to the outer jacket.

(f) Trailing cables shall be clamped to machines in a manner to protect the cables from damage and to prevent strain on the electrical connections. Trailing cables shall be adequately protected to prevent damage by mobile equipment.

(g) Trailing cable and power cable connections to junction boxes shall not be made or broken under load.

GROUNDING

SEC. 307. (a) All metallic sheaths, armors, and conduits enclosing power conductors shall be electrically continuous throughout and shall be grounded by methods approved by an authorized representative of the Secretary. Metallic frames, casings, and other enclosures of electric equipment that can become "alive" through failure of insulation or by contact with energized parts shall be grounded by methods approved by an authorized representative of the Secretary. Methods other than grounding which provide no less effective protection may be permitted by the Secretary or his authorized representative.

(b) The frames of all offtrack direct current machines and the enclosures of related detached components shall be effectively grounded, or otherwise maintained at no less safe voltages, by methods approved by an authorized representative of the Secretary.

(c) The frames of all stationary high-voltage equipment receiving power from ungrounded delta systems shall be grounded by methods approved by an authorized representative of the Secretary.

(d) High-voltage lines, both on the surface and underground, shall be deenergized and grounded before work is performed on them, except that repairs may be permitted, in the case of energized surface high-voltage lines, if such repairs are made by a qualified person in accordance with procedures and safeguards, including, but not limited to, a requirement that the operator of such mine provide, test, and maintain protective devices in making such repairs, to be prescribed by the Secretary prior to the operative date of this title.

(e) When not in use, power circuits underground shall be deenergized on idle days and idle shifts, except that rectifiers and transformers may remain energized.

UNDERGROUND HIGH-VOLTAGE DISTRIBUTION

SEC. 308. (a) High-voltage circuits entering the underground area of any coal mine shall be protected by suitable circuit breakers of adequate interrupting capacity which are properly tested and maintained as prescribed by the Secretary. Such breakers shall be equipped with devices to provide protection against under-voltage, grounded phase, short circuit, and overcurrent.

(b) High-voltage circuits extending underground and supplying portable, mobile, or stationary high-voltage equipment shall contain either a direct or derived neutral which shall be grounded through a suitable resistor at the source transformers, and a grounding circuit, originating at the grounded side of the grounding resistor, shall extend along with the power conductors and serve as a grounding conductor for the frames of all high-voltage equipment supplied power from that circuit, except that the Secretary or his authorized representative may permit ungrounded high-voltage circuits to be extended underground to feed stationary electrical equipment if such circuits are either steel armored or installed in grounded, rigid steel conduit throughout their entire length, and upon his finding that such exception does not pose a hazard to the miners. Within one hundred feet of the point on the surface where high-voltage circuits enter the underground portion of the mine, disconnecting devices shall be installed and so equipped or designed in such a manner that it can be determined by visual observation that the power is disconnected, except that the Secretary or his authorized representative may permit such devices to be installed at a greater distance from such area of the mine if he determines, based on existing physical conditions, that such installation will be more accessible at a greater distance and will not pose any hazard to the miners.

(c) The grounding resistor, where required, shall be of the proper ohmic value to limit the voltage drop in the grounding circuit external to the resistor to not more than 100 volts under fault conditions. The grounding resistor shall be rated for maximum fault current continuously and insulated from ground for a voltage equal to the phase-to-phase voltage of the system.

(d) Six months after the operative date of this title, high-voltage, resistance grounded systems shall include a

fail safe ground check circuit to monitor continuously the grounding circuit to assure continuity and the fail safe ground check circuit shall cause the circuit breaker to open when either the ground or pilot check wire is broken, or other no less effective device approved by the Secretary or his authorized representative to assure such continuity, except that an extension of time, not in excess of twelve months, may be permitted by the Secretary on a mine-by-mine basis if he determines that such equipment is not available.

(e)(1) Underground high-voltage cables used in resistance grounded systems shall be equipped with metallic shields around each power conductor, with one or more ground conductors having a total cross-sectional area of not less than one-half the power conductor, and with an insulated internal or external conductor not smaller than No. 8 (AWG) for the ground continuity check circuit.

(2) All such cables shall be adequate for the intended current and voltage. Splices made in such cables shall provide continuity of all components.

(f) Couplers that are used with medium-voltage or high-voltage power circuits shall be of the three-phase type with a full metallic shell, except that the Secretary may permit, under such guidelines as he may prescribe, no less effective couplers constructed of materials other than metal. Couplers shall be adequate for the voltage and current expected. All exposed metal on the metallic couplers shall be grounded to the ground conductor in the cable. The coupler shall be constructed so that the ground check continuity conductor shall be broken first and the ground conductors shall be broken last when the coupler is being uncoupled.

(g) Single-phase loads, such as transformer primaries, shall be connected phase to phase.

(h) All underground high-voltage transmission cables shall be installed only in regularly inspected aircourses and haulageways, and shall be covered, buried, or placed so as to afford protection against damage, guarded where men regularly work or pass under them unless they are six and one-half feet or more above the floor or rail, securely anchored, properly insulated, and guarded at ends, and covered, insulated, or placed to prevent contact with trolley wires and other low-voltage circuits.

(i) Disconnecting devices shall be installed at the beginning of branch lines in high-voltage circuits and equipped or designed in such a manner that it can be determined by visual observation that the circuit is deenergized when the switches are open.

(j) Circuit breakers and disconnecting switches underground shall be marked for identification.

(k) In the case of high-voltage cables used as trailing cables, temporary splices shall not be used and all permanent splices shall be made in accordance with section 306(e) of this title. Terminations and splices in all other high-voltage cables shall be made in accordance with the manufacturer's specifications.

(l) Frames, supporting structures, and enclosures of stationary, portable, or mobile underground high-voltage equipment and all high-voltage equipment supplying power to such equipment receiving power from resistance grounded systems shall be effectively grounded to the high-voltage ground.

(m) Power centers and portable transformers shall be deenergized before they are moved from one location to another, except that, when equipment powered by sources other than such centers or transformers is not available, the Secretary may permit such centers and transformers to be moved while energized, if he determines that another equivalent or greater hazard may otherwise be created, and if they are moved under the supervision of a qualified person, and if such centers and transformers are examined prior to such movement by such person and found to be grounded by methods approved by an authorized representative of the Secretary and otherwise protected from hazards to the miner. A record shall be kept of such examinations. High-voltage cables, other than trailing cables, shall not be moved or handled at any time while energized, except that, when such centers and transformers are moved while energized as permitted under this subsection, energized high-voltage cables attached to such centers and transformers may be moved only by a qualified person and the operator of such mine shall require that such person wear approved and tested insulated wireman's gloves.

UNDERGROUND LOW- AND MEDIUM-VOLTAGE ALTERNATING CURRENT CIRCUITS

SEC. 309. (a) Low- and medium-voltage power circuits serving three-phase alternating current equipment shall be protected by suitable circuit breakers of adequate interrupting capacity which are properly tested and maintained as prescribed by the Secretary. Such breakers shall be equipped with devices to provide protection against under-voltage, grounded phase, short circuit, and over-current.

(b) Low- and medium-voltage three-phase alternating-current circuits used underground shall contain either a direct or derived neutral which shall be grounded through a suitable resistor at the power center, and a grounding circuit, originating at the grounded side of the grounding resistor, shall extend along with the power conductors and serve as a grounding conductor for the frames of all the electrical equipment supplied power from that circuit, except that the Secretary or his authorized representative may permit ungrounded low- and medium-voltage circuits to be used underground to feed such stationary electrical equipment if such circuits are either steel armored or installed in grounded rigid steel conduit throughout their entire length. The grounding resistor, where required, shall be of the proper ohmic value to limit the ground fault current to 25 amperes. The grounding resistor shall be rated for maximum fault current continuously and insulated from ground for a voltage equal to the phase-to-phase voltage of the system.

(c) Six months after the operative date of this title, low-and medium-voltage resistance grounded systems shall include a fail safe ground check circuit to monitor continuously the grounding circuit to assure continuity which ground check circuit shall cause the circuit breaker to open when either the ground or pilot check wire is broken, or other no less effective device approved by the Secretary or his authorized representative to assure such continuity, except that an extension of time, not in excess of twelve months, may be permitted by the Secretary on a mine-by-mine basis if he determines that such equipment is not available. Cable couplers shall be constructed so that the ground check continuity conductor shall be broken first and the ground conductors shall be broken last when the coupler is being uncoupled.

(d) Disconnecting devices shall be installed in conjunction with the circuit breaker to provide visual evidence that the power is disconnected. Trailing cables for mobile equipment shall contain one or more ground conductors having a cross sectional area of not less than one-half the power conductor, and, six months after the operative date of this title, an insulated conductor for the ground continuity check circuit or other no less effective device approved by the Secretary or his authorized representative to assure such continuity, except that an extension of time, not in excess of twelve months may be permitted by the Secretary on a mine-by-mine basis if he determines that such equipment is not available. Splices made in the cables shall provide continuity of all components.

(e) Single phase loads shall be connected phase to phase.

(f) Circuit breakers shall be marked for identification.

(g) Trailing cables for medium voltage circuits shall include grounding conductors, a ground check conductor, and ground metallic shields around each power conductor or a grounded metallic shield over the assembly, except that on equipment employing cable reels, cables without shields may be used if the insulation is rated 2,000 volts or more.

TROLLEY WIRES AND TROLLEY FEEDER WIRES

SEC. 310. (a) Trolley wires and trolley feeder wires shall be provided with cutout switches at intervals of not more than 2,000 feet and near the beginning of all branch lines.

(b) Trolley wires and trolley feeder wires shall be provided with overcurrent protection.

(c) Trolley wires and trolley feeder wires, high-voltage cables and transformers shall not be located in by the last open crosscut and shall be kept at least 150 feet from pillar workings.

(d) Trolley wires, trolley feeder wires, and bare signal wires shall be insulated adequately where they pass through doors and stoppings, and where they cross other power wires and cables. Trolley wires and trolley feeder wires shall be guarded adequately (1) at all points where men are required to work or pass regularly under the wires; (2) on both sides of all doors and stoppings; and (3) at man-trip stations. The Secretary or his authorized representative shall specify other conditions where trolley wires and trolley feeder wires shall be adequately protected to prevent contact by any person, or shall require the use of improved methods to prevent

such contact. Temporary guards shall be provided where trackmen and other persons work in proximity to trolley wires and trolley feeder wires.

FIRE PROTECTION

SEC. 311. (a) Each coal mine shall be provided with suitable firefighting equipment adapted for the size and conditions of the mine. The Secretary shall establish minimum requirements for the type, quality, and quantity of such equipment, and the interpretations of the Secretary or the Director of the Bureau of Mines relating to such equipment in effect on the operative date of this title shall continue in effect until modified or superseded by the Secretary. After every blasting operation, an examination shall be made to determine whether fires have been started.

(b) Underground storage places for lubricating oil and grease shall be of fireproof construction. Except for specially prepared materials approved by the Secretary, lubricating oil and grease kept in all underground areas in a coal mine shall be in fireproof, closed metal containers or other no less effective containers approved by the Secretary.

(c) Underground transformer stations, battery-charging stations, substations, compressor stations, shops, and permanent pumps shall be housed in fireproof structures or areas. Air currents used to ventilate structures or areas enclosing electrical installations shall be coursed directly into the return. Other underground structures installed in a coal mine as the Secretary may prescribe shall be of fireproof construction. All welding, cutting, or soldering with arc or flame in all underground areas of a coal mine shall, whenever practicable, be conducted in fireproof enclosures. Welding, cutting or soldering with arc or flame in other than a fireproof enclosure shall be done under the supervision of a qualified person who shall make a diligent search for fire during and after such operations and shall, immediately before and during such operations, continuously test for methane with means approved by the Secretary for detecting methane. Welding, cutting, or soldering shall not be conducted in air that contains 1.0 volume per centum or more of methane. Rock dust or suitable fire extinguishers shall be immediately available during such welding, cutting, or soldering.

(e) Within one year after the operative date of this title, fire suppression devices meeting specifications prescribed by the Secretary shall be installed on unattended underground equipment and suitable fire-resistant hydraulic fluids approved by the Secretary shall be used in the hydraulic systems of such equipment. Such fluids shall be used in the hydraulic systems of other underground equipment unless fire suppression devices meeting specifications prescribed by the Secretary are installed on such equipment.

(f) Deluge-type water sprays or foam generators automatically actuated by rise in temperature, or other no less effective means approved by the Secretary of controlling fire, shall be installed at main and secondary belt-conveyor drives. Where sprays or foam generators are used they shall supply a sufficient quantity of water or foam to control fires.

(g) Underground belt conveyors shall be equipped with slippage and sequence switches. The Secretary shall, within sixty days after the operative date of this title, require that devices be installed on all such belts which will give a warning automatically when a fire occurs on or near such belt. The Secretary shall prescribe a schedule for installing fire suppression devices on belt haulageways.

(h) On and after the operative date of this title, all conveyor belts acquired for use underground shall meet the requirements to be established by the Secretary for flame-resistant conveyor belts.

MAPS

SEC. 312. (a) The operator of a coal mine shall have in a fireproof repository located in an area on the surface of the mine chosen by the mine operator to minimize the danger of destruction by fire or other hazard, an accurate and up-to-date map of such mine drawn on scale. Such map shall show the active workings, all pillared, worked out, and abandoned areas, except as provided in this section, entries and aircourses with the direction of airflow indicated by arrows, contour lines of all elevations, elevations of all main and cross or side entries, dip of the coalbed, escapeways, adjacent mine workings within one thousand feet, mines above or below, water pools above, and either producing or abandoned oil and gas wells located within five hundred feet of such mine and any underground area of such mine, and such other information as the Secretary may require. Such map shall identify those areas of the mine which have been pillared, worked out, or abandoned

which are inaccessible or cannot be entered safely and on which no information is available. Such map shall be made or certified by a registered engineer or a registered surveyor of the State in which the mine is located. Such map shall be kept up to date by temporary notations and such map shall be revised and supplemented at intervals prescribed by the Secretary on the basis of a survey made or certified by such engineer or surveyor.

(b) The coal mine map and any revision and supplement thereof shall be available for inspection by the Secretary or his authorized representative, by coal mine inspectors of the State in which the mine is located, by miners in the mine and their representatives and by operators of adjacent coal mines and by persons owning, leasing, or residing on surface areas of such mines or areas adjacent to such mines. The operator shall furnish to the Secretary or his authorized representative and to the Secretary of Housing and Urban Development, upon request, one or more copies of such map and any revision and supplement thereof. Such map or revision and supplement thereof shall be kept confidential and its contents shall not be divulged to any other person, except to the extent necessary to carry out the provisions of this Act and in connection with the functions and responsibilities of the Secretary of Housing and Urban Development.

(c) Whenever an operator permanently closes or abandons a coal mine, or temporarily closes a coal mine for a period of more than ninety days, he shall promptly notify the Secretary of such closure. Within sixty days of the permanent closure or abandonment of the mine, or, when the mine is temporarily closed, upon the expiration of a period of ninety days from the date of closure, the operator shall file with the Secretary a copy of the mine map revised and supplemented to the date of the closure. Such copy of the mine map shall be certified by a registered surveyor or registered engineer of the State in which the mine is located and shall be available for public inspection.

BLASTING AND EXPLOSIVES

SEC. 313. (a) Black blasting powder shall not be stored or used underground. Mudcaps (adobes) or other unconfined shots shall not be fired underground.

(b) Explosives and detonators shall be kept in separate containers until immediately before blasting. In underground anthracite mines, (1) mudcaps or other open, unconfined shake shots may be fired, if restricted to battery starting when methane or a fire hazard is not present, and if it is otherwise impracticable to start the battery; (2) open, unconfined shake shots in pitching veins may be fired, when no methane or fire hazard is present, if the taking down of loose hanging coal by other means is too hazardous; and (3) tests for methane shall be made immediately before such shots are fired and if 1.0 volume per centum or more of methane is present, when tested, such shot shall not be made until the methane content is reduced below 1.0 volume per centum.

(c) Except as provided in this subsection, in all underground areas of a coal mine only permissible explosives, electric detonators of proper strength, and permissible blasting devices shall be used and all explosives and blasting devices shall be used in a permissible manner. Permissible explosives shall be fired only with permissible shot firing units. Only incombustible materials shall be used for stemming boreholes. The Secretary may, under such safeguards as he may prescribe, permit the firing of more than twenty shots and allow the use of nonpermissible explosives in sinking shafts and slopes from the surface in rock. Nothing in this section shall prohibit the use of compressed air blasting.

(d) Explosives or detonators carried anywhere underground in a coal mine by any person shall be in containers constructed of non-conductive material, maintained in good condition, and kept closed.

(e) Explosives or detonators shall be transported in special closed containers (1) in cars moved by means of a locomotive or rope, (2) on belts, (3) in shuttle cars, or (4) in equipment designed especially to transport such explosives or detonators.

(f) When supplies of explosives and detonators for use in one or more working sections are stored underground, they shall be kept in section boxes or magazines of substantial construction with no metal exposed on the inside, located at least twenty-five feet from roadways and power wires, and in a dry, well rock-dusted location protected from falls of roof, except in pitching beds, where it is not possible to comply with the location requirement, such boxes shall be placed in niches cut into the solid coal or rock.

(g) Explosives and detonators stored in the working places shall be kept in separate closed containers which

shall be located out of the line of blast and not less than fifty feet from the working face and fifteen feet from any pipeline, powerline, rail, or conveyor, except that, if kept in niches in the rib, the distance from any pipeline, powerline, rail, or conveyor shall be at least five feet. Such explosives and detonators, when stored, shall be separated by a distance of at least five feet.

HOISTING AND MANTRIPS

SEC. 314. (a) Every hoist used to transport persons at a coal mine shall be equipped with overspeed, overwind, and automatic stop controls. Every hoist handling platforms, cages, or other devices used to transport persons shall be equipped with brakes capable of stopping the fully loaded platform, cage, or other device; with hoisting cable adequately strong to sustain the fully loaded platform, cage, or other device; and have a proper margin of safety. Cages, platforms, or other devices which are used to transport persons in shafts and slopes shall be equipped with safety catches or other no less effective devices approved by the Secretary that act quickly and effectively in an emergency, and such catches shall be tested at least once every two months. Hoisting equipment, including automatic elevators, that is used to transport persons shall be examined daily. Where persons are transported into, or out of, a coal mine by hoists, a qualified hoisting engineer shall be on duty while any person is underground, except that no such engineer shall be required for automatically operated cages, platforms, or elevators.

(b) Other safeguards adequate, in the judgment of an authorized representative of the Secretary, to minimize hazards with respect to transportation of men and materials shall be provided.

(c) Hoists shall have rated capacities consistent with the loads handled and the recommended safety factors of the ropes used. An accurate and reliable indicator of the position of the cage, platform, skip, bucket, or cars shall be provided.

(d) There shall be at least two effective methods approved by the Secretary of signaling between each of the shaft stations and the hoist room, one of which shall be a telephone or speaking tube.

(e) Each locomotive and haulage car used in an underground coal mine shall be equipped with automatic brakes, where space permits. Where space does not permit automatic brakes, locomotives and haulage cars shall be subject to speed reduction gear, or other similar devices approved by the Secretary which are designed to stop the locomotives and haulage cars with the proper margin of safety.

(f) All haulage equipment acquired by an operator of a coal mine on or after one year after the operative date of this title shall be equipped with automatic couplers which couple by impact and uncouple without the necessity of persons going between the ends of such equipment. All haulage equipment without automatic couplers in use in a mine on the operative date of this title shall also be so equipped within four years after the operative date of this title.

EMERGENCY SHELTERS

SEC. 315. The Secretary or an authorized representative of the Secretary may prescribe in any coal mine that rescue chambers, properly sealed and ventilated, be erected at suitable locations in the mine to which persons may go in case of an emergency for protection against hazards. Such chambers shall be properly equipped with first aid materials, an adequate supply of air and self-contained breathing equipment, an independent communication system to the surface, and proper accommodations for the persons while awaiting rescue, and such other equipment as the Secretary may require. A plan for the erection, maintenance, and revisions of such chambers and the training of the miners in their proper use shall be submitted by the operator to the Secretary for his approval.

COMMUNICATIONS

SEC. 316. Telephone service or equivalent two-way communication facilities, approved by the Secretary or his authorized representative, shall be provided between the surface and each landing of main shafts and slopes and between the surface and each working section of any coal mine that is more than one hundred feet from a portal.

MISCELLANEOUS

SEC. 317. (a) Each operator of a coal mine shall take reasonable measures to locate oil and gas wells penetrating coalbeds or any underground area of a coal mine. When located, such operator shall establish and maintain barriers around such oil and gas wells in accordance with State laws and regulations, except that such barriers shall not be less than three hundred feet in diameter, unless the Secretary or his authorized representative permits a lesser barrier consistent with the applicable State laws and regulations where such lesser barrier will be adequate to protect against hazards from such wells to the miners in such mine, or unless the Secretary or his authorized representative requires a greater barrier where the depth of the mine, other geologic conditions, or other factors warrant such a greater barrier.

(b) Whenever any working place approaches within fifty feet of abandoned areas in the mine as shown by surveys made and certified by a registered engineer or surveyor, or within two hundred feet of any other abandoned areas of the mine which cannot be inspected and which may contain dangerous accumulations of water or gas, or within two hundred feet of any workings of an adjacent mine, a borehole or boreholes shall be drilled to a distance of at least twenty feet in advance of the working face of such working place and shall be continually maintained to a distance of at least ten feet in advance of the advancing working face. When there is more than one borehole, they shall be drilled sufficiently close to each other to insure that the advancing working face will not accidentally hole through into abandoned areas or adjacent mines. Boreholes shall also be drilled not more than eight feet apart in the rib of such working place to a distance of at least twenty feet and at an angle of forty-five degrees. Such rib holes shall be drilled in one or both ribs of such working place as may be necessary for adequate protection of miners in such place.

(c) No person shall smoke, carry smoking materials, matches, or lighters underground, or smoke in or around oil houses, explosives magazines, or other surface areas where such practice may cause a fire or explosion. The operator shall institute a program, approved by the Secretary, to insure that any person entering the underground area of the mine does not carry smoking materials, matches, or lighters.

(d) Persons underground shall use only permissible electric lamps approved by the Secretary for portable illumination. No open flame shall be permitted in the underground area of any coal mine, except as permitted under section 311(d) of this title.

(e) Within nine months after the operative date of this title, the Secretary shall propose the standards under which all working places in a mine shall be illuminated by permissible lighting, within eighteen months after the promulgation of such standards, while persons are working in such places.

(f)(1) Except as provided in paragraphs (2) and (3) of this subsection, at least two separate and distinct travelable passageways which are maintained to insure passage at all times of any person, including disabled persons, and which are to be designated as escapeways, at least one of which is ventilated with intake air, shall be provided from each working section continuous to the surface escape drift opening, or continuous to the escape shaft or slope facilities to the surface, as appropriate, and shall be maintained in safe condition and properly marked. Mine openings shall be adequately protected to prevent the entrance into the underground area of the mine of surface fires, fumes, smoke, and flood water. Escape facilities approved by the Secretary or his authorized representative, properly maintained and frequently tested, shall be present at or in each escape shaft or slope to allow all persons, including disabled persons, to escape quickly to the surface in the event of an emergency.

(2) When new coal mines are opened, not more than twenty miners shall be allowed at any one time in any mine until a connection has been made between the two mine openings, and such connections shall be made as soon as possible.

(3) When only one mine opening is available, owing to final mining of pillars, not more than twenty miners shall be allowed in such mine at any one time, and the distance between the mine opening and working face shall not exceed five hundred feet.

(4) In the case of all coal mines opened on or after the operative date of this title, and in the case of all new working sections opened on or after such date in mines opened prior to such date, the escapeway required by this section to be ventilated with intake air shall be separated from the belt and trolley haulage entries of the mine for the entire length of such entries to the beginning of each working section, except that the Secretary or his authorized representative may permit such separation to be extended for a greater or lesser distance so

long as such extension does not pose a hazard to the miners.

(g) After the operative date of this title, all structures erected on the surface within one hundred feet of any mine opening shall be of fireproof construction. Unless structures existing on or prior to such date which are located within one hundred feet of any mine opening are of such construction, fire doors shall be erected at effective points in mine openings to prevent smoke or fire from outside sources endangering miners underground. These doors shall be tested at least monthly to insure effective operation. A record of such tests shall be kept in an area on the surface of the mine chosen by the operator to minimize the danger of destruction by fire or other hazard and shall be available for inspection by interested persons.

(h) Adequate measures shall be taken to prevent methane and coal dust from accumulating in excessive concentrations in or on surface coal-handling facilities, but in no event shall methane be permitted to accumulate in concentrations in or on surface coal-handling facilities in excess of limits established for methane by the Secretary within one year after the operative date of this title. Where coal is dumped at or near air-intake openings, provisions shall be made to avoid dust from entering the mine.

(i) Every operator of a coal mine shall provide a program, approved by the Secretary, of training and retraining of both qualified and certified persons needed to carry out functions prescribed in this Act.

(j) An authorized representative of the Secretary may require in any coal mine where the height of the coalbed permits that electric face equipment, including shuttle cars, be provided with substantially constructed canopies or cabs to protect the miners operating such equipment from roof falls and from rib and face rolls.

(k) On and after the operative date of this title, the opening of any coal mine that is declared inactive by its operator or is permanently closed or abandoned for more than ninety days, shall be sealed by the operator in a manner prescribed by the Secretary. Openings of all other mines shall be adequately protected in a manner prescribed by the Secretary to prevent entrance by unauthorized persons.

(l) The Secretary may require any operator to provide adequate facilities for the miners to change from the clothes worn underground, to provide for the storing of such clothes from shift to shift, and to provide sanitary and bathing facilities. Sanitary toilet facilities shall be provided in the active workings of the mine when such surface facilities are not readily accessible to the active workings.

(m) Each operator shall make arrangements in advance for obtaining emergency medical assistance and transportation for injured persons. Emergency communications shall be provided to the nearest point of assistance. Selected agents of the operator shall be trained in first aid and first aid training shall be made available to all miners. Each coal mine shall have an adequate supply of first aid equipment located on the surface, at the bottom of shafts and slopes, and at other strategic locations near the working faces. In fulfilling each of the requirements of this subsection, the operator shall meet at least minimum requirements prescribed by the Secretary of Health, Education, and Welfare. Within two months after the operative date of this title, each operator shall file with the Secretary a plan setting forth in such detail as the Secretary may require the manner in which such operator has fulfilled the requirements in this subsection.

(n) A self-rescue device approved by the Secretary shall be made available to each miner by the operator which shall be adequate to protect such miner for one hour or longer. Each operator shall train each miner in the use of such device.

(o) The Secretary shall prescribe improved methods of assuring that miners are not exposed to atmospheres that are deficient in oxygen.

(p) Each operator of a coal mine shall establish a check-in and check-out system which will provide positive identification of every person underground, and will provide an accurate record of the persons in the mine kept on the surface in a place chosen to minimize the danger of destruction by fire or other hazard. Such record shall bear a number identical to an identification check that is securely fastened to the lamp belt worn by the person underground. The identification check shall be made of a rust resistant metal of not less than sixteen gauge.

(q) The Secretary shall require, when technologically feasible, that devices to prevent and suppress ignitions be installed on electric face cutting equipment.

(r) Whenever an operator mines coal from a coal mine opened after the operative date of this title, or from any new working section of a mine opened prior to such date, in a manner that requires the construction, operation, and maintenance of tunnels under any river, stream, lake, or other body of water, that is, in the judgment of the Secretary, sufficiently large to constitute a hazard to miners, such operator shall obtain a permit from the Secretary which shall include such terms and conditions as he deems appropriate to protect the safety of miners working or passing through such tunnels from cave-ins and other hazards. Such permits shall require, in accordance with a plan to be approved by the Secretary, that a safety zone be established beneath and adjacent to such body of water. No plan shall be approved unless there is a minimum of cover to be determined by the Secretary, based on test holes drilled by the operator in a manner to be prescribed by the Secretary. No such permit shall be required in the case of any new working section of a mine which is located under any water resource reservoir being constructed by a Federal agency on the date of enactment of this Act, the operator of which is required by such agency to operate in a manner that adequately protects the safety of miners working in such section from cave-ins and other hazards.

(s) An adequate supply of potable water shall be provided for drinking purposes in the active workings of the mine, and such water shall be carried, stored, and otherwise protected in sanitary containers.

(t) Within one year after the operative date of this title, the Secretary shall propose standards for preventing explosions from explosive gases other than methane and for testing for accumulations of such gases.

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**Federal Mine Safety & Health Act of 1977,
Public Law 91-173,
as amended by Public Law 95-164**

DEFINITIONS

SEC. 318. For the purpose of this title and title II of this Act, the term--

(a) "certified" or "registered" as applied to any person means a person certified or registered by the State in which the coal mine is located to perform duties prescribed by such titles, except that, in a State where no program of certification or registration is provided or where the program does not meet at least minimum Federal standards established by the Secretary, such certification or registration shall be by the Secretary;

(b) "qualified person" means, as the context requires,

(1) an individual deemed qualified by the Secretary and designated by the operator to make tests and examinations required by this Act; and

(2) an individual deemed, in accordance with minimum requirements to be established by the Secretary, qualified by training, education, and experience, to perform electrical work, to maintain electrical equipment, and to conduct examinations and tests of all electrical equipment;

(c) "permissible" as applied to--

(1) equipment used in the operation of a coal mine, means equipment, other than permissible electric face equipment, to which an approval plate, label, or other device is attached as authorized by the Secretary and which meets specifications which are prescribed by the Secretary for the construction and maintenance of such equipment and are designed to assure that such equipment will not cause a mine explosion or a mine fire,

(2) explosives, shot firing units, or blasting devices used in such mine, means explosives, shot firing units, or blasting devices which meet specifications which are prescribed by the Secretary, and

(3) the manner of use of equipment or explosives, shot firing units, and blasting devices, means the manner of use prescribed by the Secretary;

(d) "rock dust" means pulverized limestone, dolomite, gypsum, anhydrite, shale, adobe, or other inert material, preferably light colored, 100 per centum of which will pass through a sieve having twenty meshes per linear inch and 70 per centum or more of which will pass through a sieve having two hundred meshes per linear inch; the particles of which when wetted and dried will not cohere to form a cake which will not be dispersed into separate particles by a light blast of air; and which does not contain more than 5 per centum of combustible matter or more than a total of 4 per centum of free and combined silica (SiO₂), or, where the Secretary finds that such silica concentrations are not available, which does not contain more than 5 per centum of free and combined silica;

(e) "anthracite" means coals with a volatile ratio equal to 0.12 or less;

(f) "volatile ratio" means volatile matter content divided by the volatile matter plus the fixed carbon;

(g)(1) "working face" means any place in a coal mine in which work of extracting coal from its natural deposit in the earth is performed during the mining cycle,

(2) "working place" means the area of a coal mine in by the last open crosscut,

(3) "working section" means all areas of the coal mine from the loading point of the section to and including the working faces,

(4) "active workings" means any place in a coal mine where miners are normally required to work or travel;

(h) "abandoned areas" means sections, panels, and other areas that are not ventilated and examined in the manner required for working places under section 303 of this title;

(i) "permissible" as applied to electric face equipment means all electrically operated equipment taken into or used in by the last open crosscut of an entry or a room of any coal mine the electrical parts of which, including, but not limited to, associated electrical equipment, components, and accessories, are designed, constructed, and installed, in accordance with the specifications of the Secretary, to assure that such equipment will not cause a mine explosion or mine fire, and the other features of which are designed and constructed, in accordance with the specifications of the Secretary, to prevent, to the greatest extent possible, other accidents in the use of such equipment; and the regulations of the Secretary or the Director of the Bureau of Mines in effect on the operative date of this title relating to the requirements for investigation, testing, approval, certification, and acceptance of such equipment as permissible shall continue in effect until modified or superseded by the Secretary, except that the Secretary shall provide procedures, including, where feasible, testing, approval, certification, and acceptance in the field by an authorized representative of the Secretary, to facilitate compliance by an operator with the requirements of section 305(a) of this title within the periods prescribed therein;

(j) "low voltage" means up to and including 660 volts; "medium voltage" means voltages from 661 to 1,000 volts; and "high voltage" means more than 1,000 volts;

(k) [repealed]

(l) "coal mine" includes areas of adjoining mines connected underground.

TITLE IV--BLACK LUNG BENEFITS

PART A--GENERAL

SEC. 401. Congress finds and declares that there are a significant number of coal miners living today who are totally disabled due to pneumoconiosis arising out of employment in one or more of the Nation's underground coal mines; that there are a number of survivors of coal miners whose deaths were due to this disease; and that few States provide benefits for death or disability due to this disease to coal miners or their surviving dependents. It is, therefore, the purpose of this title to provide benefits, in cooperation with the States, to coal miners who are totally disabled due to pneumoconiosis and to the surviving dependents of miners whose death was due to such disease; and to ensure that in the future adequate benefits are provided to coal miners and their dependents in the event of their death or total disability due to pneumoconiosis.

SEC. 402. For purposes of this title--

(a) The term "dependent" means a wife or child who is a dependent as that term is defined for purposes of section 8110 of title 5, United States Code.

(b) The term "pneumoconiosis" means a chronic dust disease of the lung arising out of employment in an underground coal mine.

(c) The term "Secretary" where used in part B means the Secretary of Health, Education, and Welfare, and where used in part C means the Secretary of Labor.

(d) The term "miner" means any individual who is or was employed in an underground coal mine.

(e) The term "widow" means the wife living with or dependent for support on the decedent at the time of his death, or living apart for reasonable cause or because of his desertion, who has not remarried.

(f) The term "total disability" has the meaning given it by regulations of the Secretary of Health, Education, and Welfare, but such regulations shall not provide more restrictive criteria than those applicable under section 223(d) of the Social Security Act.

PART B--CLAIMS FOR BENEFITS FILED ON OR BEFORE DECEMBER 31, 1972

SEC. 411. (a) The Secretary shall, in accordance with the provisions of this part, and the regulations promulgated by him under this part, make payments of benefits in respect of total disability of any miner due to pneumoconiosis, and in respect of the death of any miner whose death was due to pneumoconiosis.

(b) The Secretary shall by regulation prescribe standards for determining for purposes of section 411(a) whether a miner is totally disabled due to pneumoconiosis and for determining whether the death of a miner was due to pneumoconiosis. Regulations required by this subsection shall be promulgated and published in the Federal Register at the earliest practicable date after the date of enactment of this title, and in no event later than the end of the third month following the month in which this title is enacted. Such regulations may be modified or additional regulations promulgated from time to time thereafter.

(c) For purposes of this section--

(1) if a miner who is suffering or suffered from pneumoconiosis was employed for ten years or more in one or more underground coal mines there shall be a rebuttable presumption that his pneumoconiosis arose out of such employment;

(2) if a deceased miner was employed for ten years or more in one or more underground coal mines and died from a respirable disease there shall be a rebuttable presumption that his death was due to pneumoconiosis; and

(3) if a miner is suffering or suffered from a chronic dust disease of the lung which (A) when diagnosed by chest roentgenogram, yields one or more large opacities (greater than one centimeter in diameter) and would be classified in category A, B, or C in the International Classification of Radiographs of the Pneumoconioses by the International Labor Organization, (B) when diagnosed by biopsy or autopsy, yields massive lesions in the lung, or (C) when diagnosis is made by other means, would be a condition which could reasonably be expected to yield results described in clause (A) or (B) if diagnosis had been made in the manner prescribed in clause (A) or (B), then there shall be an irrebuttable presumption that he is totally disabled due to pneumoconiosis or that his death was due to pneumoconiosis, as the case may be.

(d) Nothing in subsection (c) shall be deemed to affect the applicability of subsection (a) in the case of a claim where the presumptions provided for therein are inapplicable.

SEC. 412. (a) Subject to the provisions of subsection (b) of this section, benefit payments shall be made by the Secretary under this part as follows:

(1) In the case of total disability of a miner due to pneumoconiosis, the disabled miner shall be paid benefits during the disability at a rate equal to 50 per centum of the minimum monthly payment to which a Federal employee in grade GS-2, who is totally disabled, is entitled at the time of payment under chapter 81 of title 5, United States Code.

(2) In the case of death of a miner due to pneumoconiosis or of a miner receiving benefits under this part, benefits shall be paid to his widow (if any) at the rate the deceased miner would receive such benefits if he were totally disabled.

(3) In the case of an individual entitled to benefit payments under clause (1) or (2) of this subsection who has one or more dependents, the benefit payments shall be increased at the rate of 50 per centum of such benefit payments, if such individual has one dependent, 75 per centum if such individual has two dependents, and 100 per centum if such individual has three or more dependents.

(b) Notwithstanding subsection (a), benefit payments under this section to a miner or his widow shall be reduced, on a monthly or other appropriate basis, by an amount equal to any payment received by such miner or his widow under the workmen's compensation, unemployment compensation, or disability insurance laws of his State on account of the disability of such miner, and the amount by which such payment would be reduced on account of excess earnings of such miner under section 203(b) through (1) of the Social Security Act if the amount paid were a benefit payable under section 202 of such Act.

(c) Benefits payable under this part shall be deemed not to be income for purposes of the Internal Revenue Code of 1954.

SEC. 413. (a) Except as otherwise provided in section 414 of this part, no payment of benefits shall be made under this part except pursuant to a claim filed therefor on or before December 31, 1972, in such manner, in such form, and containing such information, as the Secretary shall by regulation prescribe.

(b) In carrying out the provisions of this part, the Secretary shall to the maximum extent feasible (and consistent with the provisions of this part) utilize the personnel and procedures he uses in determining entitlement to disability insurance benefit payments under section 223 of the Social Security Act. Claimants under this part shall be reimbursed for reasonable medical expenses incurred by them in establishing their claims. For purposes of determining total disability under this part, the provisions of subsections (a), (b), (c), (d), and (g) of section 221 of such Act shall be applicable.

(c) No claim for benefits under this section shall be considered unless the claimant has also filed a claim under the applicable State workmen's compensation law prior to or at the same time his claim was filed for benefits under this section; except that the foregoing provisions of this paragraph shall not apply in any case in which the filing of a claim under such law would clearly be futile because the period within which such a claim may be filed thereunder has expired or because pneumoconiosis is not compensable under such law, or in any other situation in which, in the opinion of the Secretary, the filing of a claim would clearly be futile.

SEC. 414. (a) No claim for benefits under this part on account of total disability of a miner shall be considered unless it is filed on or before December 31, 1972, or, in the case of a claimant who is a widow, within six months after the death of her husband or by December 31, 1972, whichever is the later.

(b) No benefits shall be paid under this part after December 31, 1972, if the claim therefor was filed after December 31, 1971.

(c) No benefits under this part shall be payable for any period prior to the date a claim therefor is filed.

(d) No benefits shall be paid under this part to the residents of any State which, after the date of enactment of this Act, reduces the benefits payable to persons eligible to receive benefits under this part, under its State laws which are applicable to its general work force with regard to workmen's compensation, unemployment compensation, or disability insurance.

(e) No benefits shall be payable to a widow under this part on account of the death of a miner unless (1) benefits under this part were being paid to such miner with respect to disability due to pneumoconiosis prior to his death, or (2) the death of such miner occurred prior to January 1, 1973.

PART C--CLAIMS FOR BENEFITS AFTER DECEMBER 31, 1972

SEC. 421. (a) On and after January 1, 1973, any claim for benefits for death or total disability due to pneumoconiosis shall be filed pursuant to the applicable State workmen's compensation law, except that during any period when miners or their surviving widows are not covered by a State workmen's compensation law which provides adequate coverage for pneumoconiosis they shall be entitled to claim benefits under this part.

(b)(1) For purposes of this section, a State workmen's compensation law shall not be deemed to provide adequate coverage for pneumoconiosis during any period unless it is included in the list of State laws found by the Secretary to provide such adequate coverage during such period. The Secretary shall, no later than October 1, 1972, publish in the Federal Register a list of State workmen's compensation laws which provide adequate coverage for pneumoconiosis and shall revise and republish in the Federal Register such list from time to time, as may be appropriate to reflect changes in such State laws due to legislation or judicial or administrative interpretation.

(2) The Secretary shall include a State workmen's compensation law on such list during any period only if he finds that during such period under such law--

- (A) benefits must be paid for total disability or death of a miner due to pneumoconiosis;
- (B) the amount of such cash benefits is substantially equivalent to or greater than the amount of benefits prescribed by section 412(a) of this title;
- (C) the standards for determining death or total disability due to pneumoconiosis are substantially

equivalent to those established by section 411, and by the regulations of the Secretary of Health, Education, and Welfare promulgated thereunder;

(D) any claim for benefits on account of total disability or death of a miner due to pneumoconiosis is deemed to be timely filed if such claim is filed within three years of the discovery of total disability due to pneumoconiosis, or the date of such death, as the case may be;

(E) there are in effect provisions with respect to prior and successor operators which are substantially equivalent to the provisions contained in section 422(i) of this part; and

(F) there are applicable such other provisions, regulations or interpretations, which are consistent with the provisions contained in Public Law 803, 69th Congress (44 Stat. 1424, approved March 4, 1927), as amended, which are applicable under section 422(a), but are not inconsistent with any of the criteria set forth in subparagraphs (A) through (E) of this paragraph, as the Secretary, in accordance with regulations promulgated by him, determines to be necessary or appropriate to assure adequate compensation for total disability or death due to pneumoconiosis. The action of the Secretary in including or failing to include any State workmen's compensation law on such list shall be subject to judicial review exclusively in the United States court of appeals for the circuit in which the State is located or the United States Court of Appeals for the District of Columbia.

SEC. 422. (a) During any period after December 31, 1972, in which a State workmen's compensation law is not included on the list published by the Secretary under section 421(b) of this part, the provisions of Public Law 803, 69th Congress (44 Stat. 1424, approved March 4, 1927), as amended (other than the provisions contained in sections 1, 2, 3, 4, 7, 8, 9, 10, 12, 13, 29, 30, 31, 32, 33, 37, 38, 41, 43, 44, 45, 46, 47, 48, 49, 50, and 51 thereof) shall (except as otherwise provided in this subsection and except as the Secretary shall by regulation otherwise provide), be applicable to each operator of an underground coal mine in such State with respect to death or total disability due to pneumoconiosis arising out of employment in such mine. In administering this part, the Secretary is authorized to prescribe in the Federal Register such additional provisions, not inconsistent with those specifically excluded by this subsection, as he deems necessary to provide for the payment of benefits by such operator to persons entitled thereto as provided in this part and thereafter those provisions shall be applicable to such operator.

(b) During any such period each such operator shall be liable for and shall secure the payment of benefits, as provided in this section and section 423 of this part.

(c) Benefits shall be paid during such period by each such operator under this section to the categories of persons entitled to benefits under section 412(a) of this title in accordance with the regulations of the Secretary and the Secretary of Health, Education, and Welfare applicable under this section: Provided, That, except as provided in subsection (i) of this section, no benefit shall be payable by any operator on account of death or total disability due to pneumoconiosis which did not arise, at least in part, out of employment in a mine during the period when it was operated by such operator.

(d) Benefits payable under this section shall be paid on a monthly basis and, except as otherwise provided in this section, such payments shall be equal to the amounts specified in section 412(a) of this title.

(e) No payment of benefits shall be required under this section:

(1) except pursuant to a claim filed therefor in such manner, in such form, and containing such information, as the Secretary shall by regulation prescribe;

(2) for any period prior to January 1, 1973; or

(3) for any period after seven years after the date of enactment of this Act.

(f) Any claim for benefits under this section shall be filed within three years of the discovery of total disability due to pneumoconiosis or, in the case of death due to pneumoconiosis, the date of such death.

(g) The amount of benefits payable under this section shall be reduced, on a monthly or other appropriate basis, by the amount of any compensation received under or pursuant to any Federal or State workmen's compensation law because of death or disability due to pneumoconiosis.

(h) The regulations of the Secretary of Health, Education, and Welfare promulgated under section 411 of this title shall also be applicable to claims under this section. The Secretary of Labor shall by regulation establish standards, which may include appropriate presumptions, for determining whether pneumoconiosis arose out of

employment in a particular underground coal mine or mines. The Secretary may also, by regulation, establish standards for apportioning liability for benefits under this subsection among more than one operator, where such apportionment is appropriate.

(i)(1) During any period in which this section is applicable with respect to a coal mine an operator of such mine who, after the date of enactment of this title, acquired such mine or substantially all the assets thereof from a person (hereinafter referred to in this paragraph as a "prior operator") who was an operator of such mine on or after the operative date of this title shall be liable for and shall, in accordance with section 423 of this part, secure the payment of all benefits which would have been payable by the prior operator under this section with respect to miners previously employed in such mine if the acquisition had not occurred and the prior operator had continued to operate such mine.

(2) Nothing in this subsection shall relieve any prior operator of any liability under this section.

SEC. 423. (a) During any period in which a State workmen's compensation law is not included on the list published by the Secretary under section 421(b) each operator of an underground coal mine in such State shall secure the payment of benefits for which he is liable under section 422 by (1) qualifying as a self-insurer in accordance with regulations prescribed by the Secretary, or (2) insuring and keeping insured the payment of such benefits with any stock company or mutual company or association, or with any other person or fund, including any State fund, while such company, association, person or fund is authorized under the laws of any State to insure workmen's compensation.

(b) In order to meet the requirements of clause (2) of subsection (a) of this section, every policy or contract of insurance must contain--

- (1) a provision to pay benefits required under section 422, notwithstanding the provisions of the State workmen's compensation law which may provide for lesser payments;
- (2) a provision that insolvency or bankruptcy of the operator or discharge therein (or both) shall not relieve the carrier from liability for such payments; and
- (3) such other provisions as the Secretary, by regulation, may require.

(c) No policy or contract of insurance issued by a carrier to comply with the requirements of clause (2) of subsection (a) of this subsection shall be canceled prior to the date specified in such policy or contract for its expiration until at least thirty days have elapsed after notice of cancellation has been sent by registered or certified mail to the Secretary and to the operator at his last known place of business.

SEC. 424. If a totally disabled miner or a widow is entitled to benefits under section 422 and (1) an operator liable for such benefits has not obtained a policy or contract of insurance, or qualified as a self-insurer, as required by section 423, or such operator has not paid such benefits within a reasonable time, or (2) there is no operator who was required to secure the payment of such benefits, the Secretary shall pay such miner or such widow the benefits to which he or she is so entitled. In a case referred to in clause (1), the operator shall be liable to the United States in a civil action in an amount equal to the amount paid to such miner or his widow under this title.

SEC. 425. With the consent and cooperation of State agencies charged with administration of State workmen's compensation laws, the Secretary may, for the purpose of carrying out his functions and duties under section 422, utilize the services of State and local agencies and their employees and, notwithstanding any other provision of law, may advance funds to or reimburse such State and local agencies and their employees for services rendered for such purposes.

SEC. 426. (a) The Secretary of Labor and the Secretary of Health, Education, and Welfare are authorized to issue such regulations as each deems appropriate to carry out the provisions of this title. Such regulations shall be issued in conformity with section 553 of title 5 of the United States Code, notwithstanding subsection (a) thereof.

(b) Within 120 days following the convening of each session of Congress the Secretary of Health, Education, and Welfare shall submit to the Congress an annual report upon the subject matter of part B of this title, and, after January 1, 1973, the Secretary of Labor shall also submit such a report upon the subject matter of part C of this title.

(c) Nothing in this title shall relieve any operator of the duty to comply with any State workmen's compensation law, except insofar as such State law is in conflict with the provisions of this title and the Secretary by regulation, so prescribes. The provisions of any State workmen's compensation law which provide greater benefits than the benefits payable under this title shall not thereby be construed or held to be in conflict with the provisions of this title.

TITLE V--ADMINISTRATION

RESEARCH

SEC. 501. (a) The Secretary of the Interior and the Secretary of Health, Education, and Welfare, as appropriate, shall conduct such studies, research, experiments, and demonstrations as may be appropriate--

- (1) to improve working conditions and practices in coal or other mines, and to prevent accidents and occupational diseases originating in the coal or other mining industry;
- (2) to develop new or improved methods of recovering persons in coal or other mines after an accident;
- (3) to develop new or improved means and methods of communication from the surface to the underground area of a coal or other mine;
- (4) to develop new or improved means and methods of reducing concentrations of respirable dust in the mine atmosphere of active workings of the coal or other mine;
- (5) to develop epidemiological information to (A) identify and define positive factors involved in occupational diseases of miners, (B) provide information on the incidence and prevalence of pneumoconiosis and other respiratory ailments of miners, and (C) improve mandatory health standards;
- (6) to develop techniques for the prevention and control of occupational diseases of miners, including tests for hypersusceptibility and early detection;
- (7) to evaluate the effect on bodily impairment and occupational disability of miners afflicted with an occupational disease;
- (8) to prepare and publish from time to time, reports on all significant aspects of occupational diseases of miners as well as on the medical aspects of injuries, other than diseases, which are revealed by the research carried on pursuant to this subsection;
- (9) to study the relationship between coal or other mine environments and occupational diseases of miners;
- (10) to develop new and improved underground equipment and other sources of power for such equipment which will provide greater safety;
- (11) to determine, upon the written request by any operator or authorized representative of miners, specifying with reasonable particularity the grounds upon which such request is made, whether any substance normally found in a coal or other mine has potentially toxic effects in the concentrations normally found in the coal or other mine or whether any physical agents or equipment found or used in a coal or other mine has potentially hazardous effects, and shall submit such determinations to both the operators and miners as soon as possible; and
- (12) for such other purposes as they deem necessary to carry out the purposes of this Act.

(b) Activities under this section in the field of coal or other mine health shall be carried out by the Secretary of Health, Education, and Welfare through the National Institute for Occupational Safety and Health established under the Occupational Safety and Health Act of 1970, and activities under this section in the field of coal or other mine safety shall be carried out by the Secretary of the Interior in coordination with the Secretary.

(c) In carrying out the provisions for research, demonstrations, experiments, studies, training, and education under this section and sections 301(b) and 502(a) of this Act, the Secretary of the Interior and the Secretary of Health, Education, and Welfare in coordination with the Secretary may enter into contracts with, and make grants to, public and private agencies and organizations and individuals. No research, demonstrations, or experiments shall be carried out, contracted for, sponsored, cosponsored, or authorized under authority of this Act, unless all information, uses, products, processes, patents, and other developments resulting from such research, demonstrations, or experiments will (with such exception and limitation, if any, as the Secretary of the Interior or the Secretary of Health, Education, and Welfare in coordination with the Secretary may find to be necessary in the public interest) be available to the general public.

(d) The Secretary of Health, Education, and Welfare shall also conduct studies and research into matters

involving the protection of life and the prevention of diseases in connection with persons, who although not miners, work with, or around the products of, coal or other mines in areas outside of such mines and under conditions which may adversely affect the health and well-being of such persons.

(e) There is authorized to be appropriated to the Secretary of the Interior such sums as may be necessary to carry out his responsibilities under this section and section 301(b) of this Act at an annual rate of not to exceed \$20,000,000 for the fiscal year ending June 30, 1970, \$25,000,000 for the fiscal year ending June 30, 1971, and \$60,000,000 for the fiscal year ending June 30, 1972, and for each succeeding fiscal year thereafter. There is authorized to be appropriated annually to the Secretary of Health, Education, and Welfare such sums as may be necessary to carry out his responsibilities under this Act. Such sums shall remain available until expended.

(f) The Secretary is authorized to grant on a mine-by-mine basis an exception to any mandatory health or safety standard under this Act for the purpose of permitting, under such terms and conditions as he may prescribe, accredited educational institutions the opportunity for experimenting with new and improved techniques and equipment to improve the health and safety of miners. No such exception shall be granted unless the Secretary finds that the granting of the exception will not adversely affect the health and safety of miners and publishes his findings.

(g) The Secretary of Health, Education, and Welfare is authorized to make grants to any public or private agency, institution, or organization, and operators or individuals for research and experiments to develop effective respiratory equipment.

TRAINING AND EDUCATION

SEC. 502. (a) The Secretary shall expand programs for the education and training of operators and agents thereof, and miners in--

- (1) the recognition, avoidance, and prevention of accidents or unsafe or unhealthful working conditions in coal or other mines; and
- (2) in the use of flame safety lamps, permissible methane detectors, and other means approved by the Secretary for detecting methane and other explosive gases accurately.

(b) The Secretary shall, to the greatest extent possible, provide technical assistance to operators in meeting the requirements of this Act and in further improving the health and safety conditions and practices in coal or other mines.

(c)(1) The National Mine Health and Safety Academy shall be maintained as an agency of the Department of the Interior. The Academy shall be responsible for the training of mine safety and health inspectors under section 505 of this Act, and in training of technical support personnel of the Mine Safety and Health Administration established under section 302 of the Federal Mine Safety and Health Amendments Act of 1977; and for any other training programs for mine inspectors, mining personnel, or other persons as the Secretaries of Labor and Interior shall designate. In performing this function, the Academy shall have the authority to enter into cooperative educational and training agreements with educational institutions, State governments, labor organizations, and mine operators and related industries. Such training shall be conducted by the Academy in accordance with curriculum needs and assignment of instructional personnel established by the user.

(2) In performing its function pursuant to this section, the National Mine Health and Safety Academy shall use the facilities and personnel of the Department of the Interior, and such other personnel as shall be mutually agreed upon by the Secretaries of Labor and Interior. The Secretary of the Interior may appoint or assign to the Academy such officers and employees as he deems necessary for the performance of the duties and functions of the Academy.

(3) The Secretary of the Interior shall conduct his safety research responsibilities under section 501 of this Act in coordination with the Secretary of Labor, and the Secretaries of Labor and the Interior are authorized to enter into contractual or other agreements for the performance of such safety related research.

ASSISTANCE TO STATES

SEC. 503. (a) The Secretary, in coordination with the Secretary of Health, Education, and Welfare and the Secretary of the Interior, is authorized to make grants in accordance with an application approved under this section to any State in which coal or other mining takes place--

- (1) to assist such State in developing and enforcing effective coal or other mine health and safety laws and regulations consistent with the provisions of section 506 of this Act;
- (2) to improve State workmen's compensation and occupational disease laws and programs related to coal or other mine employment; and
- (3) to promote Federal-State coordination and cooperation in improving the health and safety conditions in the coal or other mines.

(b) The Secretary shall approve any application or any modification thereof, submitted under this section by a State, through its official coal or other mine inspection or safety agency, which--

- (1) sets forth the programs, policies, and methods to be followed in carrying out the application in accordance with the purposes of subsection (a) of this section;
- (2) provides research and planning studies to carry out plans designed to improve State workmen's compensation and occupational disease laws and programs, as they relate to compensation to miners for occupationally caused diseases and injuries arising out of employment in any coal or other mine;
- (3) designates such State coal or other mine inspection or safety agency as the sole agency responsible for administering grants under this section throughout the State, and contains satisfactory evidence that such agency will have the authority to carry out the purposes of this section;
- (4) gives assurances that such agency has or will employ an adequate and competent staff of trained inspectors qualified under the laws of such State to make coal or other mine inspections within such State;
- (5) provides for the extension and improvement of the State program for the improvement of coal or other mine health and safety in the State, and provides that no advance notice of an inspection will be provided anyone;
- (6) provides such fiscal control and fund accounting procedures as may be appropriate to assure proper disbursement and accounting of grants made to the States under this section;
- (7) provides that the designated agency will make such reports to the Secretary in such form and containing such information as the Secretary may from time to time require;
- (8) contains assurances that grants provided under this section will supplement, not supplant, existing State coal or other mine health and safety programs; and
- (9) meets additional conditions which the Secretary may prescribe in furtherance of, and consistent with, the purposes of this section.

(c) The Secretary shall not finally disapprove any State application or modification thereof without first affording the State agency reasonable notice and opportunity for a public hearing.

(d) Any State aggrieved by a decision of the Secretary under subsection (b) or (c) of this section may file within thirty days from the date of such decision with the United States Court of Appeals for the District of Columbia a petition praying that such action be modified or set aside in whole or in part. The court shall hear such appeal on the record made before the Secretary. The decision of the Secretary incorporating his findings of fact therein, if supported by substantial evidence on the record considered as a whole, shall be conclusive. The court may affirm, vacate, or remand the proceedings to the Secretary for such further action as it directs. The filing of a petition under this subsection shall not stay the application of the decision of the Secretary, unless the court so orders. The provisions of section 106(a), (b), and (c) of this Act shall not be applicable to this section.

(e) Any State application or modification thereof submitted to the Secretary under this section may include a program to train State inspectors.

(f) The Secretary shall cooperate with such State in carrying out the application or modification thereof and shall, as appropriate, develop and, where appropriate, construct facilities for, and finance a program of, training of Federal and State inspectors jointly. The Secretary shall also cooperate with such State in establishing a system by which State and Federal inspection reports of coal or other mines located in the State are exchanged for the purpose of improving health and safety conditions in such mines.

(g) The amount granted to any coal or other mining State for a fiscal year under this section shall not exceed 80

per centum of the amount expended by such State in such year for carrying out such application.

(h) There is authorized to be appropriated \$3,000,000 for fiscal year 1970, and \$10,000,000 annually in each succeeding fiscal year to carry out the provisions of this section, which shall remain available until expended. The Secretary shall provide for an equitable distribution of sums appropriated for grants under this section to the States where there is an approved application, except that no less than one-half of such sum shall be allocated to coal-producing States

ECONOMIC ASSISTANCE

SEC. 504. (a) Section 7(b) of the Small Business Act, as amended, is amended--

(1) by striking out the period at the end of paragraph (4) and inserting in lieu thereof "; and"; and
(2) by adding after paragraph (4) a new paragraph as follows: "(5) to make such loans (either directly or in cooperation with banks or other lending institutions through agreements to participate on an immediate or deferred basis) as the Administration may determine to be necessary or appropriate to assist any small business concern operating a coal mine in affecting additions to or alterations in the equipment, facilities, or methods of operation of such mine to requirements imposed by the Federal Coal Mine Health and Safety Act of 1969, if the Administration determines that such concern is likely to suffer substantial economic injury without assistance under this paragraph."

(b) The third sentence of section 7(b) of such Act is amended by inserting "or (5)" after "paragraph (3)".

(c) Section 4(c)(1) of the Small Business Act, as amended, is amended by inserting "7(b)(5)," after "7(b)(4),".

(d) Loans may also be made or guaranteed for the purposes set forth in section 7(b)(5) of the Small Business Act, as amended pursuant to the provisions of section 202 of the Public Works and Economic Development Act of 1965, as amended.

INSPECTORS; QUALIFICATIONS; TRAINING

SEC. 505. The Secretary may, subject to the civil service laws, appoint such employees as he deems requisite for the administration of this Act and prescribe their duties. Persons appointed as authorized representatives of the Secretary shall be qualified by practical experience in mining or by experience as a practical mining engineer or by education: Provided, however, That, to the maximum extent feasible, in the selection of persons for appointment as mine inspectors, no person shall be so selected unless he has the basic qualification of at least five years practical mining experience and in assigning mine inspectors to the inspection and investigation of individual mines, due consideration shall be given to the extent possible to their previous experience in the particular type of mining operation where such inspections are to be made. Persons appointed to assist such representatives in the taking of samples of respirable dust for the purpose of enforcing title II of this Act shall be qualified by training, experience, or education. The provisions of section 201 of the Revenue and Expenditure Control Act of 1968 (82 Stat. 251, 270) shall not apply with respect to the appointment of such authorized representatives of the Secretary or to persons appointed to assist such representatives and to carry out the provisions of this Act, and, in applying the provisions of such section to other agencies under the Secretary and to other agencies of the Government, such appointed persons shall not be taken into account. Such persons shall be adequately trained by the Secretary. The Secretary shall develop programs with educational institutions and operators designed to enable persons to qualify for positions in the administration of this Act. In selecting persons and training and retraining persons to carry out the provisions of this Act, the Secretary shall work with appropriate educational institutions, operators, and representatives of miners in developing and maintaining adequate programs for the training and continuing education of persons, particularly inspectors, and where appropriate, the Secretary shall cooperate with such institutions in carrying out the provisions of this section by providing financial and technical assistance to such institutions.

EFFECT ON STATE LAWS

SEC. 506. (a) No State law in effect on the date of enactment of this Act or which may become effective thereafter shall be superseded by any provision of this Act or order issued or any mandatory health or safety standard, except insofar as such State law is in conflict with this Act or with any order issued or any mandatory health or safety standard.

(b) The provisions of any State law or regulation in effect upon the operative date of this Act, or which may become effective thereafter, which provide for more stringent health and safety standards applicable to coal or other mines than do the provisions of this Act or any order issued or any mandatory health or safety standard shall not thereby be construed or held to be in conflict with this Act. The provisions of any State law or regulation in effect on the date of enactment of this Act, or which may become effective thereafter, which provide for health and safety standards applicable to coal or other mines for which no provision is contained in this Act or in any order issued or any mandatory health or safety standard, shall not be held to be in conflict with this Act.

ADMINISTRATIVE PROCEDURES

SEC. 507. Except as otherwise provided in this Act, the provisions of sections 551-559 and sections 701-706 of title 5 of the United States Code shall not apply to the making of any order, notice, or decision made pursuant to this Act, or to any proceeding for the review thereof.

REGULATIONS

SEC. 508. The Secretary, the Secretary of Health, Education, and Welfare, and the Panel are authorized to issue such regulations as each deems appropriate to carry out any provision of this Act.

OPERATIVE DATE AND REPEAL

SEC. 509. Except to the extent an earlier date is specifically provided in this Act, the provisions of titles I and HI of this Act shall become operative ninety days after the date of enactment of this Act, and the provisions of title II of this Act shall become operative six months after the date of enactment of this Act. The provisions of the Federal Coal Mine Safety Act, as amended, are repealed on the operative date of titles I and III of this Act, except that such provisions shall continue to apply to any order, notice, decision, or finding issued under that Act prior to such operative date and to any proceedings related to such order, notice, decision or findings. All other provisions of this Act shall be effective on the date of enactment of this Act.

SEPARABILITY

SEC. 510. If any provision of this Act, or the application of such provision to any person or circumstance shall be held invalid, the remainder of this Act, or the application of such provision to persons or circumstances other than those as to which it is held invalid, shall not be affected thereby.

REPORTS

SEC. 511. (a) Within one hundred and twenty days following the convening of each session of Congress the Secretary shall submit through the President to the Congress and to the Office of Science and Technology an annual report upon the subject matter of this Act, the progress concerning the achievement of its purposes, the needs and requirements in the field of coal or other mine health and safety, the amount and status of each loan made pursuant to this Act, a description and the anticipated cost of each project and program he has undertaken under sections 301(b) and 501, and any other relevant information, including any recommendations he deems appropriate.

(b) Within one hundred and twenty days following the convening of each session of Congress, the Secretary of Health, Education, and Welfare shall submit through the President to the Congress and to the Office of Science and Technology an annual report upon the health matters covered by this Act, including the progress toward the achievement of the health purposes of this Act, the needs and requirements in the field of coal or other mine health, a description and the anticipated cost of each project and program he has undertaken under sections 301(b) and 501, and any other relevant information, including any recommendations he deems appropriate. The first such report shall include the recommendations of the Secretary of Health, Education, and Welfare as to necessary mandatory health standards, including his recommendations as to the maximum permissible individual exposure to miners from respirable dust during a shift.

SPECIAL REPORT

SEC. 512. (a) The Secretary shall make a study to determine the best manner to coordinate Federal and State activities in the field of coal or other mine health and safety so as to achieve (1) maximum health and safety protection for miners, (2) an avoidance of duplication of effort, (3) maximum effectiveness, (4) a reduction of delay to a minimum, and (5) most effective use of Federal inspectors.

(b) The Secretary shall make a report of the results of his study to the Congress as soon as practicable after the date of enactment of this Act.

JURISDICTION; LIMITATION

SEC. 513. In any proceeding in which the validity of any interim mandatory health or safety standard set forth in titles II and III of this Act is in issue, no justice, judge, or court of the United States shall issue any temporary restraining order or preliminary injunction restraining the enforcement of such standard pending a determination of such issue on its merits.

ADDENDUM

MISCELLANEOUS PROVISIONS OF THE "FEDERAL MINE SAFETY AND HEALTH AMENDMENTS ACT OF 1977"

TRANSFER MATTERS

SEC. 301. (a) Except with respect to the functions assigned to the Secretary of the Interior pursuant to section 501 of the Federal Coal Mine Health and Safety Act of 1969, the functions of the Secretary of the Interior under title Federal Coal Mine Health and Safety Act of 1969, as amended, and the Federal Metal and Nonmetallic Mine Safety Act are transferred to the Secretary of Labor, except those which are expressly transferred to the Commission by this Act.

(b)(1) The mandatory standards relating to mines, issued by the Secretary of the Interior under the Federal Metal and Nonmetallic Mine Safety Act and standards and regulations under the Federal Coal Mine Health and Safety Act of 1969 which are in effect on the date of enactment of this Act shall remain in effect as mandatory health or safety standards applicable to metal and nonmetallic mines and to coal mines respectively under the Federal Mine Safety and Health Act of 1977 until such time as the Secretary of Labor shall issue new or revised mandatory health or safety standards applicable to metal and nonmetallic mines and new or revised mandatory health or safety standards applicable to coal mines.

(2) Within 60 days after the date of enactment of this Act, the Secretary of Labor in consultation with the Secretary of the Interior shall establish an advisory committee under section 102 of the Federal Mine Safety and Health Act of 1977 which shall, within 180 days after the date of the establishment of such advisory committee, review the advisory health and safety standards issued by the Secretary of the Interior under the Federal Metal and Nonmetallic Mine Safety Act and recommend to the Secretary of Labor which of those standards (or any modifications of such standards which do not substantially diminish the health and safety of miners) should be promulgated as mandatory health or safety standards. The Secretary of Labor shall publish, within 60 days after any recommendations of the advisory committee under this paragraph, each of the standards so recommended for adoption with or without modifications as a proposed mandatory health or safety standard under this section by publication of such standard in the Federal Register, and afford interested persons a period of 25 days after publication to submit written data or comment. Within 30 days after the close of the comment period specified in the preceding sentence, the Secretary of Labor shall promulgate by publication in the Federal Register mandatory health or safety standards based upon the advisory committee recommendation with or without modification, and the data and comments received thereon, unless the Secretary of Labor determines that such standards will not promote the health and safety of miners and publishes an explanation of that determination in the Federal Register.

(c)(1) All unexpended balances of appropriations, personnel, property, records, obligations, and commitments which are used primarily with respect to any functions transferred under the provisions of subsection (a) to the Secretary of Labor shall be transferred to the Department of Labor or the Commission, as appropriate. The transfer of personnel pursuant to this paragraph shall be without reduction in classification or compensation for one year after such transfer, except that the Secretary of Labor shall have full authority to assign personnel

during such one-year period in order to efficiently carry out functions transferred to him under this Act.

(2) All orders, decisions, determinations, rules, regulations, permits, contracts, certificates, licenses, and privileges (A) which have been issued, made, granted, or allowed to become effective in the exercise of functions which are transferred under this section by any department or agency, any functions of which are transferred by this section, and (B) which are in effect at the time this section takes effect, shall continue in effect according to their terms until modified, terminated, superseded, set aside, revoked, or repealed by the Secretary of Labor, the Federal Mine Safety and Health Review Commission or other authorized officials, by any court of competent jurisdiction, or by operation of law.

(3) The provisions of this section shall not affect any proceedings pending at the time this section takes effect before any department, agency, or component thereof, functions of which are transferred by this section, except that such proceedings, to the extent that they relate to functions so transferred, shall be continued before the Secretary of Labor or the Federal Mine Safety and Health Review Commission. Orders shall be issued in such proceedings, appeals shall be taken therefrom, and payments shall be made pursuant to such orders, as if this section had not been enacted; and orders issued in any such proceedings shall continue in effect until modified, terminated, superseded, revoked, or repealed by the Secretary of Labor, the Federal Mine Safety and Health Review Commission, by a court of competent jurisdiction, or by operation of law. Nothing in this subsection shall be deemed to prohibit the discontinuance or modification of any proceeding under the same terms and conditions and to the same extent that such proceeding could have been discontinued if this section had not been enacted.

(4) The provisions of this section shall not affect suits commenced prior to the date this section takes effect and in all such suits proceedings shall be had, appeals taken, and judgments rendered, in the same manner and effect as if this section had not been enacted; except that if before the date on which this section takes effect, any department or agency (or officer thereof in his official capacity) is a party to a suit involving functions transferred to the Secretary, then such suit shall be continued by the Secretary of Labor. No cause of action, and no suit, action, or other proceeding, by or against any department or agency (or officer thereof in his official capacity) functions of which are transferred by this section, shall abate by reason of the enactment of this section. Causes of actions, suits, actions, or other proceedings may be asserted by or against the United States or the Secretary as may be appropriate and, in any litigation pending when this section takes effect, the court may at any time, on its own motion or that of any party, enter an order which will give effect to the provisions of this paragraph.

(d) For purposes of this section, (1) the term "function" includes power and duty, and (2) the transfer of a function, under any provision of law, of an agency or the head of a department shall also be a transfer of all functions under such law which are exercised by any officer or officer of such agency or department.

(e) The Director of the Office of Management and Budget in consultation with the Secretary of Labor and the Secretary of the Interior is authorized and directed to make such determinations as may be necessary with regard to the dispositions of personnel, personnel positions, property, records, assets, liabilities, contracts, obligations, commitments, unexpended balances of appropriations, authorizations, allocations, and other funds employed, held, used, arising from, available or to be made available, in connection with the functions transferred by this Act as he may deem necessary to accomplish the purposes of this Act.

MINE SAFETY AND HEALTH ADMINISTRATION

SEC. 302. (a) There is established in the Department of Labor a Mine Safety and Health Administration to be headed by an Assistant Secretary of Labor for Mine Safety and Health appointed by the President, by and with the advice and consent of the Senate. The Secretary, acting through the Assistant Secretary for Mine Safety and Health, shall have authority to appoint, subject to the civil service laws, such officers and employees as he may deem necessary for the administration of this Act, and to prescribe powers, duties, and responsibilities of all officers and employees engaged in the administration of this Act. The Secretary is authorized and directed, except as specifically provided otherwise to carry out his functions under the Federal Mine Safety and Health Act of 1977 through the Mine Safety and Health Administration.

(b) Section 5315 of title 5, United States Code, is amended by adding at the end thereof the following paragraphs: "(120) Assistant Secretary of Labor for Mine Safety and Health. "(121) Members, Federal Mine Safety and Health Review Commission."

(c)(1) Section 5314 of title 5, United States Code, is amended by adding at the end thereof the following new paragraph: "(66) Chairman, Federal Mine Safety and Health Review Commission."

(d) The principal office of the Commission shall be in the District of Columbia. Whenever the Commission deems that convenience of the public or the parties may be promoted, or delay or expense may be minimized, it may hold hearings or conduct other proceedings at any other place.

SAVINGS PROVISION

SEC. 304. Nothing contained in this Act or any amendment made by this Act shall be construed to reduce the number of inspectors engaged in enforcement of the Federal Coal Mine Health and Safety Act of 1969 and the Federal Metal and Nonmetallic Mine Safety Act as in effect prior to the effective date of this Act or to reduce the number of inspectors engaged in the enforcement of the Occupational Safety and Health Act of 1970.

BUDGET PROVISION

SEC. 305. In the preparation of the Budget message required under section 201 of the Budget and Accounting Act, 1921 (31 U.S.C. 11), the President shall set forth as separate appropriation accounts amounts required for appropriation for mine health and safety pursuant to the Federal Mine Safety and Health Act of 1977 and for occupational safety and health pursuant to the Occupational Safety and Health Act of 1970.

REPEALER

SEC. 306. (a) The Federal Metal and Nonmetallic Mine Safety Act is repealed.

(b) Section 405 of the Act of November 16, 1973, Public Law 93-153 is repealed.

EFFECTIVE DATE

SEC. 307. Except as otherwise provided, this Act and the amendments made by this Act shall take effect 120 days after the date of enactment of this Act. The Secretary of Labor and the Secretary of the Interior are authorized to establish such rules and regulations as may be necessary for the efficient transfer of functions provided under this Act. The amendment to the Federal Coal Mine Health and Safety Act of 1969 made by section 202 of this Act shall be effective on the date of enactment.

Approved November 9, 1977

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