

HANDBOOKS

- †RRH. Rescue and Recovery Operations in Mines After Fires and Explosions, by James W. Paul and H. M. Wolfen. 1916. 109 pp. Contains suggestions and advice on the conduct of rescue and recovery operations at coal and metal mines.
- †FAH. Advanced First-Aid Instructions for Miners, a Report on Standardization, by a Committee of Surgeons: G. H. Halberstadt, A. F. Knoefel, W. A. Lynott, W. S. Rountree, and M. J. Shields. 1917. 142 pp., 65 figs. (Supersedes MC 23.) Superseded by First Aid, A Bureau of Mines Instruction Manual.
- †FOH. Efficiency in the Use of Oil Fuel, a Handbook for Boiler-Plant and Locomotive Engineers, by J. M. Wadsworth. 1918. 86 pp. Gives information on the design of burners, furnaces, and boilers, the properties of fuel oil and the methods of obtaining it, and shows how fuel oil can be burned most efficiently.
- †ERH. General Information and Rulings for the Enforcement of the Law Regarding the Manufacture, Distribution, Storage, Use, or Possession of Explosives and Their Ingredients, by F. S. Peabody (Assistant to the Director in Charge of Explosives). 1918. 44 pp. Gives directions for operation of law passed by Congress as Public, No. 68, 65th Congress, H.R. 3932, for wartime regulation of explosives manufacture, distribution, and use. (No longer in force.)
- †MH. Manual on Geophysical Prospecting with the Magnetometer, by J. Wallace Joyce. Revised 1938. 129 pp., 53 figs. Discusses magnetic prospecting with the Schmidt-type magnetometer; various factors that influence observations; indicates corrections to be applied to field data, and outlines certain fundamental ideas that underlie the interpretation of magnetic data.
- †FAI. Manual of First-Aid Instruction. 1940. 361 pp., 113 figs. (Supersedes Advanced First-Aid Instructions for Miners.) Revised as First Aid, A Bureau of Mines Instruction Manual.
- HFH. Questions and Answers for the Home Fireman, by J. F. Barkley. 1950. 34 pp. 20 cents. (Revised.)
- †CFH. Questions and Answers for the Coal Fireman, by J. F. Barkley. (Question and Answer Handbook 1). 1941. 17 pp. (Revised.)
- †BAH. Self-Contained Oxygen Breathing Apparatus. A Handbook for Miners, by G. W. Grove. 1941. 234 pp., 32 figs. (Revision, in part, of Self-Contained Mine Rescue Oxygen Breathing Apparatus, by D. J. Parker, G. S. McCaa, and E. H. Denny, issued in 1923 and revised in 1929 and 1934.) (Supersedes TP 29 and MC 4.) Describes all types of oxygen breathing apparatus approved by Bureau of Mines; details of design, construction, and testing are confined to those now being used in the United States. Two of approved types are manufactured abroad, have not been sold or worn in this country, and therefore are discussed more briefly than those in active service. This handbook covers only briefly use of oxygen breathing apparatus during rescue and recovery work after mine disasters. (For such information the reader is referred to another Bureau of Mines handbook, Rescue and Recovery Operations in Mines After Fires and Explosions, and MC 36R.)
- †Out of print.
- CMM. Coal Miners' Safety Manual. A Handbook for miners, by J. J. Forbes, M. J. Ankeny, and Francis Feehan. 1942. 218 pp., 73 figs. Comprises more than 800 questions and answers covering all phases of safety in mining. Intended for use of mine operators, rank and file of mine workers, and especially for guidance of men selected to serve on Mine Safety Committees. Answers to questions are based upon good safety practices developed in coal mining and in laboratory research and investigations of Bureau of Mines. 35 cents.
- BWH. Questions and Answers on Boiler Feed-Water Conditioning, by J. F. Barkley. (Question and Answer Handbook 3.) 1943. 121 pp., 1 fig. (Revised.) Attempts to give information about boiler feed water to boiler operators who have not studied chemistry. Shows harmful effects of impurities in boiler water, causes of boiler pitting or corrosion, methods of preventing undesirable sludge, and chemicals used for conditioning feed water; includes several useful tables. 40 cents.
- †FAC. Suggested Procedure for Conducting First-Aid and Mine Rescue Contests, by G. W. Grove. 1944. 92 pp., 14 figs. (Revision of TP 579.) Gives practical suggestions for the conduct of first-aid and mine rescue contests.
- †FS. Federal Mine Safety Code for Bituminous-Coal and Lignite Mines of the United States, July 24, 1946. 1946. 84 pp. Superseded by Federal Mine Safety Code for Bituminous-Coal and Lignite Mines of the United States: Part I. Underground Mines, October 8, 1953, and Part II. Strip Mines, October 8, 1953.
- †OMH. Safety Course for Bituminous-Coal Miners. A Handbook for Miners. 1948. 253 pp., 58 figs. Superseded by Bituminous-Coal Miners' Safety Course, A Bureau of Mines Instruction Manual.
- †PBF. Questions and Answers on Propane and Butane Fuels, by J. F. Barkley. (Question and Answer Handbook 4.) 1950. 23 pp., 8 figs. Gives properties of propane and butane fuels and occurrence, uses, and transportation of LP-gas and safety precautions that must be observed in handling it.
- BWT. Boiler-Water-Treatment Manual for Federal-Plant Operators, by Louis Goldman. (Handbook 5.) 1951. 94 pp., 12 figs. This manual, prepared as a companion booklet to Bureau of Mines Handbook 3, Questions and Answers on Boiler Feed-Water Conditioning, issued in 1943, and written primarily for operators or engineers of boiler plants operated by United States Government, tells what to do, what chemicals to use, and how to use them in Government boiler plants. 50 cents.
- CMV. Some Practical Aspects of Coal-Mine Ventilation, by R. T. Artz. 1951. 45 pp., 30 figs. Adequate ventilation is the first line of defense against coal-mine fires and explosions and also promotes the health, safety, and efficiency of coal-mine workers, according to this handbook. Mine fans, quality and quantity of mine air, artificial resistance in airways, ventilating systems, distribution and control of air currents, and mine-section ventilation are described. 55 cents.
- RSH. Questions and Answers on Roof Support in Bituminous-Coal Mines. A Handbook, by J. J. Forbes, Edward Thomas, and A. J. Barry. 1951. 90 pp., 57 figs. This handbook, the second revision of MC 31, Questions and Answers on Timbering Bituminous-Coal Mines, which was published in 1928, contains

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questions and answers on causes of falls of roofs and on roof control in mechanized mining. The first revision was published as MC 40, Some Information on Timbering Bituminous-Coal Mines, in 1939. Since then, numerous changes have been made in mining methods, some additional knowledge has been gained in roof-control methods, and considerable progress has been made by the industry in the design of new types of roof support to meet specialized needs of coal-mine mechanization. 25 cents.

FAM. First Aid. A Bureau of Mines Instruction Manual. 1953. 160 pp., 63 figs. (Revision of Manual of First-Aid Instruction.) Standardizes first-aid procedure in all industries served by the Bureau so that it will be equally applicable to general first-aid instruction and contest work and simplifies or clarifies methods of treating injuries. 60 cents.

FSC 1. Federal Mine Safety Code for Bituminous-Coal and Lignite Mines of the United States. Part I. Underground Mines, October 8, 1953. 1953. 86 pp. This revised safety code, which supersedes the Federal Mine Safety Code for Underground Bituminous-Coal and Lignite Mines of the United States, July 24, 1946, and supplements the Federal Coal Mine Safety Act, Title II, was endorsed and accepted by the United Mine Workers of America and the Bituminous Coal Producers' Association. This code covers surface structures; miscellaneous surface conditions; control of roof, face, and ribs; explosives and blasting; ventilation and mine gases; coal and rock dust; transportation; electricity; safeguards for mechanical equipment; fire protection and mine disasters; and general safety conditions. 50 cents.

FSC 2. Federal Mine Safety Code for Bituminous-Coal and Lignite Mines of the United States. Part II. Strip Mines, October 8, 1953. 1953. 40 pp. This revised safety code, endorsed and accepted by the United Mine Workers of America and the Bituminous Coal Producers' Association, supersedes the Federal Mine Safety Code for Strip Bituminous-Coal and Lignite Mines of the United States, July 24, 1946, and supplements the Federal Coal Mine Safety Act, Title II. This code, making no major changes in the earlier code but primarily clarifying the existing provisions, covers surface structures; miscellaneous surface conditions; stripping and drilling overburden; explosives and blasting; haulage; electricity; safeguards for mechanical equipment; miscellaneous hazards; and general safety conditions. 40 cents.

†MSC 1. Federal Mine Safety Code for Anthracite Mines of the United States. Part I. Underground Mines, October 14, 1953. 1953. 48 pp. This revised safety code for underground anthracite mines of the United States supersedes IC 7449, a revision of IC 7282, and has been approved by the Bureau of Mines, the United Mine Workers of America, and representatives of the Pennsylvania anthracite operators. This code covers surface structures; miscellaneous surface conditions; control of roof; face, and ribs; explosives and blasting; ventilation and mine gas; coal dust; transportation; electricity; safeguards for mechanical equipment; fire protection and mine disasters; and general safety conditions.

†MSC 2. Federal Mine Safety Code for Anthracite Mines of the United States. Part II. Strip Mines, October 14, 1953. 1953. 22 pp. This revised Safety code for strip anthracite mines of the United States, approved by the Bureau of Mines, the United Mine Workers of America, and representatives of the Pennsylvania anthracite operators, supersedes Ar-

ticle XIII of the Safety standards for anthracite mines published in IC 7449, a revision of IC 7282. This code covers surface structures; miscellaneous surface conditions; stripping and drilling overburden; explosives and blasting; haulage; electricity; safeguards for mechanical equipment; miscellaneous hazards; and general safety conditions at strip mines.

CMC. Bituminous-Coal Miners' Safety Course. A Bureau of Mines Instruction Manual. 1954. 216 pp., 61 figs. (Supersedes Safety Course for Bituminous-Coal Miners, a Handbook for Miners.) Designed to serve as a guide to classes taking Bureau's safety course for coal miners, as well as for information of individual miners, handbook describes hazards of coal mining and methods of dealing with each. The safety course for coal miners was developed by Bureau to aid in preventing accidents in bituminous-coal mining. \$1.25.

NMP 1. Accident Prevention in Nonferrous-Metal Processing Plants (in Three Sections). 1. Injury Statistics. 1954. 77 pp., 4 figs. Deals with general accidental injury statistics in the mineral industry, with particular reference to nonferrous-metal processing plants (mills, concentrators, smelters, refineries, and reduction plants). Other subjects discussed are the value of accident reports and injury statistics, classification of injuries, methods of computing frequency and severity rates, accident investigations and reports, direct and indirect cost of accidents, and causes of personal injuries. 40 cents.

NMP 2. Accident Prevention in Nonferrous-Metal Processing Plants (in Three Sections). 2. Mills and Concentrators. 1954. 380 pp., 127 figs. This publication, second of a series that covers various phases of accident prevention in nonferrous-metal processing plants, deals with the prevention of accidents in mills and concentrators. Discusses plant procedures and practices; hazards and safeguards; types, sources, and causes of accidents; and possible means of preventing accidents and thereby reducing the number and severity of personal injuries. \$2.25.

NMP 3. Accident Prevention in Nonferrous-Metal Processing Plants (in Three Sections). 3. Smelters, Refineries, and Reduction Plants. 1955. 499 pp., 167 figs. This publication, the third of a series covering various phases of accident prevention in nonferrous-metal processing plants, deals with the prevention of accidents in nonferrous-metal smelters, refineries, and reduction plants. Discusses plant procedures and practices; hazards and safeguards; types, sources, and causes of accidents; and possible ways of preventing accidents and thereby reducing the number and severity of personal injuries. \$2.00.

FCU. Facts Concerning Uranium Exploration and Production, by John E. Crawford and James Paone. 1956. 130 pp., 15 figs. Designed specifically for persons interested in uranium prospecting and development, this pocket-size handbook describes areas favorable for uranium prospecting, ways to obtain analyses of ore specimens, prospecting on private and public lands, ways of staking claims, Geiger and other radioactivity detection counters and their use, and mining, milling, and refining of uranium ore. A list of selected references follows each chapter. 70 cents.

CSE. Coal Sampling (Revision of Technical Paper 133), by N. H. Snyder; revised by S. J. Aresco. 1957. 16 pp., 2 figs. (Revision of Handbook on Coal Sampling, published in 1950, and TP 133.) Handbook is prepared primarily for use of Government employees charged with the duty of sampling coal purchased by Government. Describes in detail various steps necessary in collecting representative samples. 30 cents.

†Out of print.