

BUILDING CONSTRUCTION AND MAINTENANCE

bon disulfide, and ethyl ether.

Nonferrous tools need inspection before each use to be certain that they have not picked up steel particles, which could produce friction sparks

Keep up-to-date

The maintenance department should not overlook the potentialities of new products, cleaners, lubricants, paints, wood preservatives, insulation, floor repair materials, protective coatings, alloys, and other developments. It should also keep up with new applications of existing products. New products or applications usually lead to better methods and safer practices.

Increased mechanization requires careful assessment of new potential hazards, especially in high-speed equipment and processes. Use of color throughout the plant, as specified in Chapter 14 will contribute to

accident prevention and help develop high standards of operation.

Sometimes mechanical means help to offset potential hazards. Centralized lubrication, floor cleaning machines, centralized spray painting equipment, steam cleaners, and other devices will help make a maintenance program safer. For frequently performed maintenance jobs, permanent accessories, such as hoists, fixed ladders, and catwalks, should be provided.

Maintenance procedures should be re-examined periodically for safer ways to do the job. A special suggestion system should be set up for maintenance men so that they will be able to present new ideas or corrective measures.

Engineering books and service manuals should be a part of the maintenance program. Workers should be familiar with them and use them when necessary.

References

- American Standards Association, 10 East 40th St., New York City
Safety Code for Building Construction A10.2
Safety Code for Cranes, Derricks, and Hoists B30.2
Safety Code for Fixed Ladders A14.3
Safety Code for Floor and Wall Openings, Railings, and Toe Boards A12
Safety Code for Portable Metal Ladders A14.2
Safety Code for Portable Wood Ladders A14.1
Safety Color Code for Marking Physical Hazards and the Identification of Certain Equipment Z53.1
Safety in Welding and Cutting Z49.1
Scheme for the Identification of Piping Systems A13.1
Associated General Contractors of America, Inc., 1957 E St. NW, Washington, D.C. *Manual of Accident Prevention in Construction*
Huntington, Whitney Clark. *Building Construction Materials and Types of Construction*, 3rd ed. New York City, John Wiley & Sons, Inc. 1963
Liberty Mutual Research Laboratory, Frankland Rd., Hopkinton, Mass. *Strength of Nailed Joints*.
National Fire Protection Association, 60 Batterymarch St., Boston, Mass. *Flammable and Combustible Liquids Code* Standard No. 30
National Safety Council, 425 North Michigan Ave., Chicago, Ill.
Industrial Data Sheets
Crawler, Truck, and Similar Cranes Data Sheet 448
Epoxy Resin Systems Data Sheet 533
General Excavation Data Sheet 482
Hot Work Permits (Flame or Spark) Data Sheet 522
Marula Safety Nets for Construction Projects Data Sheet 519
Operation of Power Shovels, Draglines, and Similar Equipment Data Sheet 271
Paving with Portland Cement Concrete Data Sheet 541
Sidewalk Sheds Data Sheet 368
Trench Excavation Data Sheet 254
Reigeluth, R. J. *Safety and Economy in Heavy Construction* New York City, McGraw-Hill Book Company
Rossnagel, W. E. *Handbook of Rigging* New York City, McGraw-Hill Book Company
Sack, Thomas F. *A Complete Guide to Building and Plant Maintenance* New York City, McGraw-Hill Book Company, 1963
U.S. Army, Corps of Engineers, Washington, D.C. *General Safety Requirements* Manual EM385-1-1