BOOK REVIEWS

Selection of books for review is based on the editors' opinions regarding possible reader interest and on the availability of the book to the editors. Occasional selections may include books on topics somewhat peripheral to the subject matter ordinarily considered acceptable.

A SERIES ON BASIC PRINCIPLES

Title Industrial Atomic Energy Uses, Hazards and Controls
Vol. I - Development and Basic Concepts
Vol. II - Instrumentation, Biological Effects, and Radiation Protection
Vol. III - Impact on the Community

Sponsor International Brotherhood of Electrical Workers

Publisher John F. Rider, Inc., 1965

Pages Vol. I - 150
Vol. II - 166
Vol. III - 116

Price Vol. I-$3.75; Vol. II-$3.75; Vol. III-$3.25

Reviewer Robert J. Creagan

The purpose of the series is to provide basic knowledge of atomic energy and its industrial uses, according to the preface by Gordon M. Freeman, International President. He also states, ". . . it is somewhat the same as an electrician's understanding of the principles of electricity and electrical energy to be able to understand how electricity can be used to man's benefit and also what harm electricity can do to people and property if certain safeguards are not followed."

The three volumes carry out the intent in a readable style with plenty of illustrations. There is no attempt to be profound, but the electrical worker or other craftsman will have a much better comprehension of the nuclear industry after reading the books.

The committees that helped plan the series in conjunction with an educational program were selected from knowledgeable people in the power reactor field. In general, they represented operating management at the various reactors sites who have a very practical attitude toward the industrial atom.

Stanford Research Institute developed the material under USAEC sponsorship.

Attention is called (in Vol. I, rather than Vol. III) to all of the non-professional personnel involved in many operations of the program and the statement is made: "It may also be of interest to note that most production workers in these plants are members of labor unions—The International Brotherhood of Electrical Workers; The International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers, and Helpers; The United Association of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of the U.S. and Canada; The International Association of Machinists; The Oil, Chemical, and Atomic Workers International Union and The International Chemical Workers Union."

A sales pitch is made in Vol. III for the benefits of nuclear power which includes cleaner air in our cities.

In my opinion, the books serve a very useful purpose, are well-written for their intended readers, and the Brotherhood is to be complimented on the project.

Robert J. Creagan has been working in the nuclear power field since 1946 and in such projects as the EBR-I and the Nautilus prototype. He headed the reactor design for the Yankee and BR-3 reactors. At present, he is a Consultant at the Westinghouse Atomic Power Division. He received an engineering degree from Illinois Institute of Technology in 1942 and MS and PhD degrees from Yale in 1943 and 1948, respectively.