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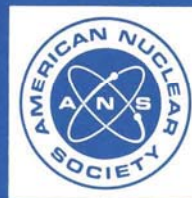
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Revision of
ANSI/ANS-15.4-1977

**American National Standard
for the Selection and Training of
Personnel for Research Reactors**

Secretariat
American Nuclear Society

Prepared by the
American Nuclear Society
Standards Committee
Working Group ANS-15.4

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American National Standard

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Foreword

(This Foreword is not a part of American National Standard for the Selection and Training of Personnel for Research Reactors, ANSI/ANS-15.4-1988.)

The American Nuclear Society (ANS) Standards Secretariat established Subcommittee ANS-15 in the fall of 1970 with the task of preparing a standard for the operation of research reactors. In January 1972, this charter was expanded to the multiple tasks of preparing all standards for research reactors. To implement this enlarged responsibility, a number of Subcommittee Work Groups were established to develop standards for consideration and complementary action by Subcommittee ANS-15. ANS-15.4 is one of these groups.

This standard addresses itself exclusively to the selection and training of personnel for research reactors. Assignment of personnel responsibilities are found elsewhere, as in American National Standard for the Development of Technical Specifications for Research Reactors, ANSI/ANS-15.1-1982. Since the reactor accident at Three Mile Island 2 in March 1979, performance-based training methodologies have been adopted by the nuclear industry. Accordingly, this standard reflects the need for training programs to be on actual job performance requirements.

The standard developmental program reflects the extensive interplay of ANS-15 and the daughter work groups from the establishment of the working group in 1983 through development of the final draft in December 1986. In this process of creating standards against the background of established and varied practices in many operating facilities, it is important to consider that:

- a. It is not intended that the standard be used as a demand model for backfitting purposes.
- b. It should be a vital aid for the new owner-agency.

The need for a standard on selection, training and requalification was very apparent in November 1972. Since that time the U.S. Nuclear Regulatory Commission issued the Code of Federal Regulations, Part 55, Appendix A, "Requalification Programs for Licensed Operators of Production and Utilization Facilities." There was much debate concerning the usefulness of a standard in light of Part 55, Appendix A. It was decided that a standard should be completed that reflects the needs of research reactors. It is the opinion of this committee that such a standard would be in the best interest of safety and provide a meaningful technique for selection, training, and requalification of research reactor personnel.

It is recognized that many of the requirements of this standard may not be applicable, or may be too restrictive for reactors operating in the context of American National Standard Safety Guide for the Performance of Critical Experiments, ANSI/ANS-1-1987 (reaffirmation of ANSI/ANS-1-1981), and it is beyond the mission of the working group to identify those differences. Other research reactor groups having very small staffs or having little distinctions between responsibility functions (operating vs. supervisory vs. experimenter) may likewise find portions of the standard not applicable. It is sufficient only to note that important differences exist and are accounted for by facility managements and chartering and licensing agencies.

Working Group ANS-15.4 of the Standards Committee of the American Nuclear Society had the following membership:

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