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selection and training of personnel for research reactors

an American National Standard

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American National Standard Selection and Training of Personnel for Research Reactors

Secretariat
American Nuclear Society

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Foreword

(This Foreword is not part of American National Standard "Selection and Training of Personnel for Research Reactors," ANSI/ANS-15.4-2007.)

The standard "Selection and Training of Personnel for Research Reactors," ANS-15.4, was first published in 1977. It was revised in 1988 to incorporate requirements for requalification and medical competence of licensed or certified operations personnel. It is again being revised to reflect the considerable experience gained over the last decade and a half, to address changes in regulatory requirements and attitudes, and more importantly to fully incorporate the concept of performance-based selection and training of personnel. The standard is designed to be easily adopted by the wide range of research reactors in operation in the United States and abroad.

Administrative and organizational requirements and structures, including reviews and audits, are found in a companion standard, "The Development of Technical Specifications for Research Reactors," ANSI/ANS-15.1-2007.

Critical facilities and fast pulse reactors should rely on the existing standards "Conduct of Critical Experiments," ANS-1, and "Operation of Fast Pulse Reactors," ANS-14.1, and should use ANS-15.4 to supplement these standards to the extent applicable.

The family of research reactor standards that would be helpful for operators, users, and regulators of these facilities are the following:

ANSI/ANS-15.1-2007, "The Development of Technical Specifications for Research Reactors"
ANSI/ANS-15.2-1999, "Quality Control for Plate-Type Uranium-Aluminum Fuel Elements"
ANSI/ANS-15.7-1977; R1986 (W1996), "Research Reactor Site Evaluation" (withdrawn)
ANSI/ANS-15.8-1995 (R2005), "Quality Assurance Program Requirements for Research Reactors"
ANSI/ANS-15.10-1994 (W2004), "Decommissioning of Research Reactors" (withdrawn)
ANSI/ANS-15.11-1993 (R2004), "Radiation Protection at Research Reactor Facilities"
ANSI/ANS-15.15-1978; R1986 (W1996), "Criteria for the Reactor Safety Systems of Research Reactors" (withdrawn)
ANSI/ANS-15.16-1982; R1988; R2000, "Emergency Planning for Research Reactors"
ANSI/ANS-15.17-1981; R1987; R2000, "Fire Protection Program Criteria for Research Reactors"
ANSI/ANS-15.19-1991 (W2001), "Shipment and Receipt of Special Nuclear Material (SNM) by Research Reactor Facilities" (withdrawn)
ANS-15.20-20xx, "Criteria for the Reactor Control of Safety Systems of Research Reactors" (under development)
ANSI/ANS-15.21-1996; R2006, "Format and Content for Safety Analysis Reports for Research Reactors"

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