American Nuclear Society

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ANSI/ANS-15.2-1999 (R2021)

quality control for plate-type uranium-aluminum fuel elements

an American National Standard

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This standard does not necessarily reflect recent industry initiatives for risk informed decision-making or a graded approach to quality assurance. Users should consider the use of these industry initiatives in the application of this standard.

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American National Standard Quality Control for Plate-Type Uranium-Aluminum Fuel Elements

Secretariat
American Nuclear Society

Prepared by the
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Standards Committee
Working Group ANS-15.2

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American National Standard

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Foreword

(This Foreword is not part of American National Standard Quality Control for Plate-Type Uranium-Aluminum Fuel Elements, ANSI/ANS-15.2-1999.)

The American Nuclear Society Standards Committee 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 include the task of preparing standards for all aspects of research reactor needs. To implement this enlarged responsibility, a number of working groups were established by the subcommittee to develop standards for consideration and complementary action by ANS-15. This standard addresses itself to quality control for plate-type uranium-aluminum fuel elements.

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. The standard should be a vital aid for the new owner-agency.
c. The standard should be helpful for the facility undergoing change or modification.
d. Thoughtful use of the standard by industry should ease the burden of licensing and chartering agencies.

It is affirmed further that the use of any standard of performance, conduct, or excellence is volitional. The decision to use a standard is a management matter, presumably based on technical advisement.

Further guidance may be found in the following American National Standards which, like ANSI/ANS-15.2-1999, have been developed for research reactors:

ANSI/ANS-15.1-1990, *Development of Technical Specifications for Research Reactors*
ANSI/ANS-15.4-1988, *Selection and Training of Personnel for Research Reactors*
ANSI/ANS-15.7-1977 (R1986), *Research Reactor Site Evaluation*
ANSI/ANS-15.8-1976 (R1995), *Quality Assurance Program Requirements for Research Reactors*
ANSI/ANS-15.10-1994, *Decommissioning of Research Reactors*
ANSI/ANS-15.11-1993, *Radiation Protection at Research Reactor Facilities*
ANSI/ANS-15.15-1978 (R1986), *Criteria for the Reactor Safety Systems of Research Reactors*
ANSI/ANS-15.16-1982 (R1988), *Emergency Planning for Research Reactors*
ANSI/ANS-15.17-1982 (R1987), *Fire Protection Program Criteria for Research Reactors*
ANSI/ANS-15.19-1991, *Shipment and Receipt of Special Nuclear Material by Research Reactors*

At the time of the development of this revision of the Standard, Working Group ANS-15.2 had the following membership:

M. L. Gildner, Chairman, *Oak Ridge National Laboratory*
R. W. Knight, *Oak Ridge National Laboratory*
K. R. Catlett, *Babcock & Wilcox*
R. R. Hobbins, *Idaho National Engineering Laboratory*
J. C. Ottone, *CERCA*

Subcommittee ANS-15, Operation of Research Reactors, had the following membership at the time of this standard:

W. J. Richards, Chairman, *U.S. Department of Defense*
A. Adams, Jr., *U.S. Nuclear Regulatory Commission*
T. L. Bauer, *University of Texas*
S. K. Bhatnagar, *U.S. Department of Energy*
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Consensus Committee N17, Research Reactors, Reactor Physics, and Radiation Shielding, had the following membership at the time it reviewed and approved this standard:

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A. Weitzberg, Secretary

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