American Nuclear Society

quality control for plate-type nium-aluminum fuel elements

an American National Standard

published by the
American Nuclear Society
555 North Kensington Avenue
La Grange Park, Illinois 60525 USA

ANSI/ANS-15.2-1990

ANSI/ANS-15.2-1990
Revision of
ANSI/ANS-15.2-1982

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

Secretariat
American Nuclear Society

Prepared by the
American Nuclear Society
Standards Committee
Working Group ANS-15.2

Published by the
American Nuclear Society
555 North Kensington Avenue
La Grange Park, Illinois 60525 USA

Approved March 30, 1990
by the
American National Standards Institute, Inc.

American National Standard

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Published by

American Nuclear Society
555 North Kensington Avenue, La Grange Park, Illinois 60525 USA

Printed in the United States of America

Foreword

(This Foreword is not a part of American National Standard Quality Control for Plate-Type Uranium-Aluminum Fuel Elements, ANSI/ANS-15.2-1990.)

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 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.

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

B. L. Corbett, Chairman, *Oak Ridge National Laboratory*
K. Bogacik, *Babcock & Wilcox*
R. W. Knight, *Oak Ridge National Laboratory*
L. K. Seymour, *EG&G Idaho*

In this process of creating standards against the background of established and varied practices in many operating facilities, it is important to consider:

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.
c. It should be helpful for the facility undergoing change/modification.
d. Its thoughtful use by industry should ease the burden of regulatory agencies.

We affirm, 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 on technical advisement. The institutionalizing of a standard can and almost must be conditional; i.e., high probability exists that some exception or addition will compromise the absolute, unconditional application of a document which was composed to cross lines of functional and material discipline.

It is a management function to ameliorate or mitigate conditional matters. It is not the function of a standard to attempt to accommodate the many different management systems. Neither is its function to preempt management prerogatives.

This standard is promulgated in the context of these considerations.

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

W. J. Richards, Chairman, *U.S. Air Force*
L. C. Brinkerhoff, *U.S. Department of Energy*
W. J. Brynda, *Brookhaven National Laboratory*
B. L. Corbett, *Oak Ridge National Laboratory*
A. F. Di Meglio, *Nuclear Science Center*
J. P. Farrar, *University of Virginia*
D. E. Feltz, *Texas A&M University*
T. F. Luera, *Sandia National Laboratories*
G. W. Nelson, *University of Arizona*
R. C. Nelson, *U.S. Air Force*
D. P. Pruett, *Argonne National Laboratory-West*
T. M. Raby, *National Institute of Standards and Technology*
E. M. Roybal, *U.S. Department of Energy*
L. S. Rubenstein, *U.S. Nuclear Regulatory Commission*
T. R. Schmidt, *Sandia National Laboratory*
M. H. Voth, *Pennsylvania State University*
R. R. Walston, *U.S. Department of Energy*
W. L. Whittemore, *GA Technologies, Inc.*

Consensus Committee N17, Research Reactors, Reactor Physics, and Radiation Shielding, had the following membership at the time it reviewed and approved this standard:

R. S. Carter, Chairman
T. M. Raby, Secretary

S. H. Brown ..... Health Physics Society
A. Johnson (Alt.)
J. D. Buchanan ..... Individual
A. D. Callihan ..... Individual
R. E. Carter ..... Individual
R. S. Carter ..... American Nuclear Society
D. Cokinos ..... Brookhaven National Laboratory
A. De La Paz ..... Department of U.S. Army
D. Duffey ..... American Institute of Chemical Engineers
H. Goldstein ..... American Physical Society
P. B. Hemmig ..... U.S. Department of Energy
J. W. Lewellen (Alt.)
W. A. Holt ..... American Public Health Association
L. I. Kopp ..... Individual
J. E. Olhoeft ..... Individual
T. M. Raby ..... National Institute of Standards and Technology
W. J. Richards ..... U.S. Air Force
L. Rubenstein ..... U.S. Nuclear Regulatory Commission
A. Adams (Alt.)
M. M. Ter Pogossian ..... American College of Radiology
D. K. Trubey ..... Oak Ridge National Laboratory
A. Weitzberg ..... NUS Corporation
W. L. Whittemore ..... Individual

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