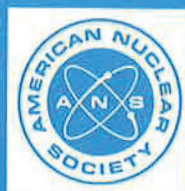


American National Standard

WITHDRAWN

quality control for
plate-type uranium-aluminum
fuel elements



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**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
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Foreword

(This Foreword is not a part of American National Standard "Quality Control for Plate-Type Uranium-Aluminum Fuel Elements," N398-1974, revision of N8.1-1967.)

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. ANS-15.2 is one of these work groups.

Work Group ANS-15.2 was assigned the task of review of N8.1-1967, "Quality Control for Plate-Type Uranium-Aluminum Fuel Elements," in October, 1972 with the following membership:

J. A. Cox, Chairman, *Oak Ridge National Laboratory*
G. M. Adamson, *Oak Ridge National Laboratory*
W. C. Francis, *Aerojet Nuclear*

G. Geisler, *Pennsylvania State University*
J. L. Meem, *University of Virginia*
R. R. Walston, *Lawrence Radiation Laboratory*

In accordance with the American National Standards Institute procedural requirements, the work group considered: 1) reaffirmation, 2) revision, and 3) withdrawal of N8.1-1967, and determined that revision was the proper course. This standard is the product of the work group effort.

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.

The membership of ANS-15 at the time of approval of this standard was:

D. F. Hanlen, Chairman, *Brown & Root, Incorporated*
J. R. Bohannon, *North Carolina State University*
E. L. Cox, *University of Missouri*
J. A. Cox, *Oak Ridge National Laboratory*
M. V. Davis, *Georgia Institute of Technology*
E. L. Draper, *University of Texas*
G. Geisler, *Pennsylvania State University*
R. Jefferson, *Sandia Laboratory*

P. Kraker, *Department of the Interior, U.S. Geological Survey, Denver*
J. L. Meem, *University of Virginia*
J. C. Ringle, *Oregon State University*
R. Schemel, *U. S. Atomic Energy Commission*
R. R. Walston, *Lawrence Radiation Laboratory*
W. L. Whittemore, *General Atomic Company*

The American National Standards Committee N17, Research Reactors, Reactor Physics and Radiation Shielding, which reviewed and approved this standard in 1973, had the following membership:

W. L. Whittemore, Chairman
 R. S. Carter, Secretary

<i>Organization Represented</i>	<i>Name of Representative</i>
American College of Radiology	M. M. Ter Pogossian
American Institute of Chemical Engineers	R. Duffy
American Nuclear Society	W. L. Whittemore
American Physical Society	W. W. Havens, Jr. H. Goldstein (Alt.)
American Public Health Association	C. G. Amato W. A. Holt (Alt.)
American Society of Mechanical Engineers	(M. Gutierrez)
American Society of Radiologic Technologists	J. H. Tolan
Health Physics Society	C. A. Willis
Institute of Electrical and Electronics Engineers	H. A. Thomas
National Bureau of Standards	R. S. Carter T. M. Raby (Alt.)
National Council on Radiation Protection and Measurements	A. B. Chilton
Society of Nuclear Medicine	(M. Glos)
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U.S. Atomic Energy Commission (General Manager's Office)	W. Hannum P. B. Hemmig (Alt.)
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Contents	Section	Page
	1. Scope and Purpose	1
	2. Materials	2
	3. ²³⁵ U Content of Fuel Plates	3
	4. Fuel Plate Plan View Core and Cladding Dimensions	4
	5. Fuel Homogeneity	4
	6. Inclusions	4
	7. Bonding	4
	8. Cladding and Fuel Core Thickness	4
	9. Surface Condition	5
	10. Identification	6
	11. Storage	6
	12. General Inspection of Completed Fuel Elements	6
	13. Discrepant Material or Components	6
	14. Packaging and Shipping	6
	15. Required Documents	7
	16. References	7
	 Table 1 — Boron-10 Equivalence Values	 3
	 Figure 1 — Location of Specimens for Cladding and Fuel Alloy Thickness Determination	 5