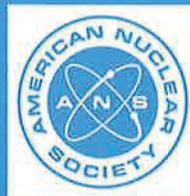


American Nuclear Society

WITHDRAWN

decommissioning of research reactors

an American National Standard



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**American National Standard
for Decommissioning of Research Reactors**

**Secretariat
American Nuclear Society**

**Prepared by the
American Nuclear Society
Standards Committee
Working Group ANS-15.10**

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Foreword (This Foreword is not a part of American National Standard for Decommissioning of Research Reactors, ANSI/ANS-15.10-1981.)

The American Nuclear Society 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 working groups were established to develop standards for consideration, and complementary action by Subcommittee ANS-15. ANS-15.10 is one of these groups.

In March 1979, Working Group ANS-15.10 was assigned the task of developing a draft standard for decommissioning of research reactors. The membership of Working Group ANS-15.10 is as follows:

T. R. Schmidt, Chairman, <i>Sandia National Laboratories</i>	B. V. T. Kinne, <i>General Physics Corporation</i>
J. G. Condelos, <i>U.S. Department of Energy, Chicago Operations Office (retired)</i>	T. S. LaGuardia, <i>Nuclear Energy Services, Inc.</i>
J. W. Driscoll, <i>Argonne National Laboratory</i>	W. J. Manion, <i>Nuclear Energy Services, Inc.</i>
	J. F. Nemeo, <i>United Nuclear Industries</i>

Present decommissioning regulations for reactors are contained in the Code of Federal Regulations, Title 10, "Energy," Part 50, "Licensing of Production and Utilization Facilities," which addresses primarily the financial qualifications of the applicants. The policy for licensed power reactors is contained in U.S. Nuclear Regulatory Commission (NRC) Regulatory Guide 1.86, "Termination of Operating Licenses for Nuclear Reactors," which was issued in June 1974 and is generally used as a basis for decommissioning activity. Currently, the NRC is in the process of developing more specific guidance on decommissioning in an effort to generate a more explicit overall policy. The initial work will be directed primarily toward production and utilization facility licensees. Decommissioning of research reactors will be examined starting in late 1980. The development of this standard will provide needed procedures, criteria, and standardization for the decommissioning of research reactors.

As a caution, because of the current developmental activity by the NRC in this area, it should be recognized that some of the procedures and criteria stated in this standard are not based on existing regulations, and that as regulations are developed and approved, such procedures and criteria may be subject to change.

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 disciplines.

The membership of Subcommittee ANS-15, Operation of Research Reactors, at the time of its approval of this standard, was:

W. J. Richards, Chairman, <i>Argonne National Laboratory-West</i>	J. R. Miller, <i>U. S. Nuclear Regulatory Commission</i>
F. T. Binford, <i>Oak Ridge National Laboratory</i>	R. D. Neff, <i>Texas A&M University</i>
L. C. Brinkerhoff, <i>U. S. Department of Energy</i>	T. M. Raby, <i>U.S. National Bureau of Standards</i>
W. J. Brynda, <i>Brookhaven National Laboratory</i>	J. D. Randall, <i>Texas A&M University</i>
A. C. Ellingson, <i>Sandia National Laboratories</i>	T. R. Schmidt, <i>Sandia National Laboratories</i>
J. P. Farrar, <i>University of Virginia</i>	R. R. Walston, <i>U.S. Department of Energy</i>
	W. L. Whittemore, <i>General Atomic Company</i>

The American National Standards Committee N17, Research Reactors, Reactor Physics, and Radiation Shielding, had the following membership at the time it reviewed and approved this Standard:

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

<i>Organizations Represented</i>	<i>Name of Representative</i>
American College of Radiology	M. M. Ter Pogossian
American Institute of Chemical Engineers	D. Duffey
American Nuclear Society	W. L. Whittemore
American Physical Society	W. W. Havens, Jr. H. Goldstein (Alt.)
American Public Health Association	W. A. Holt
American Society of Radiologic Technologists	J. H. Tolan
Health Physics Society	C. A. Willis
Institute of Electrical & Electronics Engineers, Inc. (Nuclear & Plasma Science Society)	E. A. Corte
National Bureau of Standards	R. S. Carter T. M. Raby (Alt.)
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U. S. Nuclear Regulatory Commission	J. R. Miller R. J. Schemel (Alt.)
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