# **American Nuclear Society**

## **REAFFIRMED**

December 8, 2006 ANSI/ANS-8.22-1997 (R2006) nuclear criticality safety based on limiting and controlling moderators

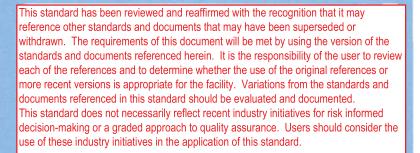
## an American National Standard

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### American National Standard for Nuclear Criticality Safety Based on Limiting and Controlling Moderators

Secretariat
American Nuclear Society

Prepared by the American Nuclear Society Standards Committee Working Group ANS-8.22

Published by the American Nuclear Society 555 North Kensington Avenue La Grange Park, Illinois 60526 USA

Approved October 31, 1997 by the American National Standards Institute, Inc.

### American National Standard

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### Foreword

(This Foreword is not a part of American National Standard for Nuclear Criticality Safety Based on Limiting and Controlling Moderators, ANSI/ANS-8.22-1997.)

This standard has been in the draft stage for more than two decades with several different chairmen and several different working groups. The continuing effort over many years illustrates the consistent desire for a standard for moderation control. Diversity in the individuals in the working group and diversity in the organizations that the individuals represent have made this standard a tool that can be used throughout the complex. The interest in this standard is consistently demonstrated by the large attendance at the working group meetings and by the large membership of the current Working Group ANS-8.22. Many ideas have been brought before the working group ranging from publication of definitive limits to a standard for general guidance specific to limiting and controlling moderators.

This new standard was prepared by Working Group ANS-8.22 of Subcommittee 8 of the Standards Committee of the American Nuclear Society. This working group was composed of:

- J. S. Bullington, Chairman, Westinghouse Safety Management Solutions
- J. J. Bazley, Parallax, Inc.
- G. H. Bidinger, Individual
- C. L. Brown, Individual
- W. E. Cox, Individual
- M. J. Crouse, Westinghouse Safety Management Solutions
- L. C. Davenport, Individual
- E. P. Elliot, Individual
- I. E. Fergus, U.S. Department of Energy
- A. L. Hess, Westinghouse Hanford Company
- J. E. Hicks, Safe Sites of Colorado, LLC.
- B. O. Kidd, Babcock & Wilcox Company
- B. J. Klotz, Individual
- C. D. Manning, Siemens Power Corporation
- R. C. McBroom, U.S. Department of Energy
- R. D. Montgomery, Westinghouse Commercial Nuclear Fuels Division
- R. L. Oxenham, Individual
- T. A. Reilly, Westinghouse Safety Management Solutions
- C. A. Rogers, Westinghouse Hanford Company
- B. M. Rothleder, U.S. Department of Energy
- R. E. Rothe, Individual
- R. V. Stachowiak, Kaiser Hill Company, LLC.
- J. E. Tanner, Individual
- R. A. Williams, Westinghouse Commercial Nuclear Fuels Division

Working Group ANS-8.22 specifically recognizes R. L. Oxenham for his efforts in preparation of this standard. This standard is dedicated in his memory.

The Membership of Subcommittee ANS-8 at the time of this standard's initial vote was:

- T. P. Mclaughlin, Chairman, Los Alamos National Laboratory
- J. A. Schlesser, Secretary, Los Alamos National Laboratory
- F. M. Alcorn, Babcock & Wilcox Company
- R. D. Carter, Mohr & Associates
- E. D. Clayton, Individual
- D. M. Dawson, E. R. Johnson, Assoc., Inc.
- D. R. Finch, Westinghouse Savannah River Company
- A. S. Garcia, Argonne National Laboratory
- C. M. Hopper, Oak Ridge National Laboratory
- E. B. Johnson, Oak Ridge National Laboratory
- N. Ketzlach, Individual
- R. Kiyose, Tokai University
- R. A. Libby, BPNWL
- W. G. Morrison, Individual
- D. A. Reed, Martin Marietta Energy Systems, Inc.
- D. R. Smith, Individual
- J. T. Thomas, Individual
- H. Toffer, Safe Sites of Colorado, LLC.
- G. E. Whitesides, Individual

Consensus Committee N16, Nuclear Criticality Safety, had the following membership at the time of its approval of this standard:

#### D. R. Smith, Chairman

#### R. A. Knief, Vice-Chairman

G. H. Bidinger	Individual
R. D. Busch	University of New Mexico
S. P. Congdon	GE Nuclear Energy
H. L. Dodds, Jr	University of Tennessee
R. A. Knief	gden Environmental and Energy Services
J. R. LaRiviere	American Institute of Chemical Engineers
C. D. Manning	
S. P. Murray	Health Physics Society
H. C. Paxton	
R. L. Reed	Westinghouse Savannah River Company
B. M. Rothleder	U.S. Department of Energy
F. W. Sanders	Individual
D. R. Smith	American Nuclear Society
R. G. Taylor	Lockheed Martin Energy Systems, Inc.
J. T. Thomas	Individual
R. M. Westfall Lockh	eed Martin Energy Research Corporation

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