

# American Nuclear Society

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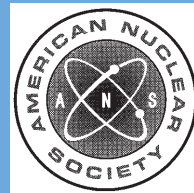
**April 9, 2019  
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R2011; R2019**

**use of fixed neutron absorbers  
in nuclear facilities outside reactors**

## 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  
for Use of Fixed Neutron Absorbers  
in Nuclear Facilities Outside Reactors**

Secretariat  
**American Nuclear Society**

Prepared by the  
**American Nuclear Society  
Standards Committee  
Working Group ANS-8.21**

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by the  
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## **American National Standard**

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# Foreword

(This Foreword is not a part of American National Standard for Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors, ANSI/ANS-8.21-1995.)

Nuclear criticality safety is an essential part of the safety assessment of a facility or an operation involving fissionable material. Designers, operators, safety professionals, regulators, and standard writing groups dealing with non-reactor nuclear facilities need to address nuclear criticality safety. This standard provides guidance for the use of fixed neutron absorbers as an integral part of nuclear facilities and fissionable material process equipment outside reactors, where such absorbers provide criticality control as required in a safety analysis.

This standard was drafted by Working Group ANS-8.21 of Subcommittee ANS-8 of the American Nuclear Society Standards Committee. The following members participated in the preparation of the standard:

- |  |  |
|--|--|
| H. Toffer, <i>Chairman, Westinghouse Hanford Company</i>   | R. A. Libby, <i>Battelle Pacific Northwest Laboratory</i>    |
| R. D. Carter, <i>Mohr and Associates</i>                   | R. E. Rothe, <i>Individual</i>                               |
| A. S. Garcia, <i>Argonne National Laboratory</i>           | D. A. Reed, <i>Martin Marietta Energy Systems, Inc.</i>      |
| S. T. Huang, <i>The Ralph M. Parsons Company</i>           | R. Tayloe, <i>Battelle Memorial Institute</i>                |
| N. Ketzlach, <i>The Ralph M. Parsons Company (retired)</i> | A. H. Wells, <i>Science Applications International Corp.</i> |
|  | R. E. Wilson, <i>U.S. Nuclear Regulatory Commission</i>      |

The membership of Subcommittee ANS-8, Fissionable Materials Outside Reactors, at the time of its ballot for approval of this standard, was as follows:

- |  |   |
|--|---|
| T. P. McLaughlin, <i>Chairman, Los Alamos National Laboratory</i>  | C. M. Hopper, <i>Oak Ridge National Laboratory</i>        |
| J. C. Schlessler, <i>Secretary, Los Alamos National Laboratory</i> | E. B. Johnson, <i>Oak Ridge National Laboratory</i>       |
| F. M. Alcorn, <i>Babcock &amp; Wilcox Company</i>                  | N. Ketzlach, <i>Individual</i>                            |
| R. D. Carter, <i>Mohr and Associates</i>                           | R. Kiyose, <i>Nuclear Safety Research Association</i>     |
| E. D. Clayton, <i>Individual</i>                                   | R. A. Libby, <i>Battelle Pacific Northwest Laboratory</i> |
| D. M. Dawson, <i>Individual</i>                                    | W. G. Morrison, <i>Individual</i>                         |
| D. R. Finch, <i>Westinghouse Savannah River Company</i>            | D. A. Reed, <i>Martin Marietta Energy Systems, Inc.</i>   |
| A. S. Garcia, <i>Argonne National Laboratory</i>                   | D. R. Smith, <i>Individual</i>                            |
|  | J. T. Thomas, <i>Individual</i>                           |
|  | H. Toffer, <i>Westinghouse Hanford Company</i>            |
|  | G. E. Whitesides, <i>Oak Ridge National Laboratory</i>    |

The membership of Committee N16, Nuclear Criticality Safety, at the time of its ballot for approval of this standard, was as follows:

- D. R. Smith, *Chairman*
- E. B. Johnson, *Secretary*

- |                   |  |
|-------------------|--|
| C. Barnett        | Lawrence Livermore National Laboratory   |
| G. H. Bidinger    | U.S. Nuclear Regulatory Commission       |
| R. D. Busch       | University of New Mexico                 |
| S. P. Congdon     | ASTM (GE Nuclear Energy)                 |
| H. L. Dodds, Jr.  | University of Tennessee                  |
| B. B. Ernst       | American Nuclear Insurers                |
| E. B. Johnson     | Oak Ridge National Laboratory            |
| R. A. Knief       | Ogden Environmental and Energy Services  |
| J. R. LaRiviere   | American Institute of Chemical Engineers |
| M. E. McLain, Jr. | HPS (Texas A&M University)               |
| C. D. Manning     | Siemens Nuclear Power Corporation        |
| J. F. Mincey      | Westinghouse Savannah River Company      |
| H. C. Paxton      | Individual                               |
| B. Rothleder      | U.S. Department of Energy                |
| F. W. Sanders     | Westinghouse Electric Corporation        |
| D. R. Smith       | ANS (Individual)                         |
| R. G. Vornehm     | Martin Marietta Energy Systems, Inc.     |
| R. M. Westfall    | Martin Marietta Energy Systems, Inc.     |

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