

American Nuclear Society

specification for radiation shielding materials

an American National Standard

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WITHDRAWN

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Foreword

(This Foreword is not a part of American National Standard Specification for Radiation Shielding Materials, ANS/ANS-6.4.2-1985.)

The need for this standard was identified in mid-1977 by the Working Group ANS-6.4. At that time, it was recognized that an increasing number of different material/design shielding concepts were being introduced into nuclear power plants to solve neutron and gamma-ray streaming problems. For protection against neutron streaming, materials varying from water-filled rubber bags, rubber balls, special concretes, treated plastics and silicone gels were proposed, while lead-filled silicone rubber and gels were proposed for gamma-ray streaming. With such a variety of materials, some only a year or two after initial commercial introduction, a clear need was discerned to standardize the specification of these materials to assist the material manufacturer in the type of information he needs to provide to the user.

The focus of the working group's initial work was to orient the standard toward the reporting requirements used by material suppliers rather than toward the preparation of specifications by designers and end users. This focus has been maintained through the development of this standard as that representing the true needs of nuclear power plants in this area.

Working Group 6.4.2 of the American Nuclear Society Standards Committee had the following membership:

E. Normand, Chairman, <i>Boeing Aerospace Company</i>	B. A. Engholm, <i>GA Technologies</i>
J. S. Brtis, <i>Sargent & Lundy</i>	J.L. Kamphouse, <i>Gilbert/Commonwealth, Inc.</i>
W. L. Bunch, <i>Hanford Engineering Development Laboratory</i>	N. B. Willoughby, <i>Consultant</i>

At the time of approval of the standard, Subcommittee ANS-6, Radiation Protection and Shielding, of the American Nuclear Society Standards Committee had the following membership:

D.K. Trubey, Chairman, <i>Oak Ridge National Laboratory</i>	D. R. Harris, <i>Rensselaer Polytechnic Institute</i>
E. T. Boulette, <i>Maine Yankee Atomic Power Company</i>	W. C. Hopkins, <i>Bechtel Corporation</i>
J. C. Celnik, <i>Stone & Webster Engineering Corporation</i>	E. Normand, <i>Boeing Aerospace Company</i>
	P. J. Persiani, <i>Argonne National Laboratory</i>
	D. J. Schuh, II, <i>GEB Controls Group, Inc.</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:

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

<i>Organization Represented</i>	<i>Name of Representative</i>
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American Institute of Chemical Engineers	D. Duffey
American Nuclear Society	R. S. Carter
American Physical Society	W. W. Havens
	H. Goldstein (Alt.)
American Public Health Associations	W. A. Holt (Alt.)
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National Bureau of Standards	T. M. Raby
National Council on Radiation Protection and Measurements	A. B. Chilton
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	J.W. Lewellen (Alt.)
U.S. Nuclear Regulatory Commission	R. E. Carter
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