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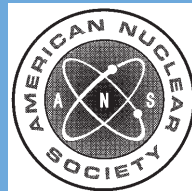
July 28, 2020

**ANSI/ANS-1987;R1998; R2007;
R2015; R2020**

**program for testing radiation shields
in light water reactors (LWR)**

an American National Standard

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

ANSI/ANS-6.3.1-1987
Revision of
ANSI/ANS-6.3.1-1980

**American National Standard
Program for Testing Radiation Shields
in Light Water Reactors (LWR)**

Secretariat
American Nuclear Society

Prepared by the
American Nuclear Society
Standards Committee
Working Group ANS-6.3.1

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

Approved July 24, 1987
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 Program for Testing Radiation Shields in Light Water Reactors (LWR), ANSI/ANS-6.3.1-1987.)

Working Group ANS 6-3 of the American Nuclear Society Standards Committee was originally formed with the objective of developing standards for an operational shield test program to be used in evaluating installed biological shielding in nuclear power plants. The standard was prepared in 1972 and was adopted as American National Standard Program for Testing Biological Shielding in Nuclear Reactor Plants, N18.9-1972 (ANS-6.3). The N18.9-1972 document was endorsed in the U.S. Nuclear Regulatory Commission's Regulatory Guide 2.1, "Shield Test Program for the Evaluation of Installed Biological Shielding in Research and Training Reactors," and issued in May 1973.

In the latter part of 1973, Working Group ANS-6.3 was reorganized to develop a standard for a radiation shield testing program of reactor power plants. This standard was produced as a revision to N18.9-1972 and designated ANS-6.3.1. It was approved in 1980 as American National Standard Program for Testing Radiation Shields in Light Water Reactors (LWR), ANSI/ANS-6.3.1-1980.

In accordance with procedures of the American Nuclear Society Standards Committee for maintenance of standards, the ANS-6.3.1 Working Group was reconvened in 1984 to review the standard. The working group ascertained that the in-field utilization of the current standard was found to be effective by the utility industry and architect/engineering firms. Minor editorial revisions but no technical modifications were made to update the material.

The membership of the working group at the time of its approval of this revision was:

P. J. Persiani, Chairman, <i>Argonne National Laboratory</i>	R. A. Pavlick, <i>Consultant, Commonwealth Edison Co.</i>
D. W. Briden, <i>Toledo Edison Company</i>	F. Skopec, <i>U.S. Nuclear Regulatory Commission</i>
W. De Lise, <i>Sargent and Lundy</i>	T. E. Todd, <i>Tennessee Valley Authority</i>

The membership of Subcommittee ANS-6, Radiation Protection and Shielding, at the time of its approval of this revision was:

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

The Consensus 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

S. H. Brown	Health Physics Society
A. D. Callihan (Subcommittee ANS-1)	Individual
R. E. Carter	U.S. Nuclear Regulatory Commission
R. S. Carter	American Nuclear Society
A. De La Paz (Subcommittee ANS-14)	Department of U.S. Army
D. Duffey	American Institute of Chemical Engineers
H. Goldstein	American Physical Society
P. B. Hemming	U.S. Department of Energy
J. W. Lewellen (Alt.)	
W. A. Holt	American Public Health Association
L. I. Kopp (Subcommittee ANS-10)	U.S. Nuclear Regulatory Commission
J. E. Olhoeft	Individual
T. M. Raby	National Bureau of Standards
W. J. Richards (Subcommittee ANS-15)	U.S. Air Force
M. M. Ter Pogossian	American College of Radiology
D. K. Trubey (Subcommittee ANS-6)	Oak Ridge National Laboratory
A. Weitzberg (Subcommittee ANS-19)	NUS Corporation
W. L. Whittemore	Individual

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