American Nuclear Society

REAFFIRMED

May 31, 2012 ANSI/ANS-8.23-2007 (R2012) nuclear criticality accident emergency planning and response

an American National Standard

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Foreword

(This Foreword is not a part of American National Standard "Nuclear Criticality Accident Emergency Planning and Response," ANSI/ANS-8.23-2007.)

This standard provides criteria for emergency planning and response to a nuclear criticality accident for facilities outside reactors that process, store, or handle fissionable material. This standard assumes that an alarm system that complies with American National Standard "Criticality Accident Alarm System," ANSI/ANS-8.3-1997 (R2003), is in place. This standard focuses on those elements of planning and response needed specifically in the event of a criticality accident. It is not a general emergency planning and response standard.

This revision adds three appendices. The appendices are intended to assist technical staff in fulfilling some of their responsibilities noted in this standard. Few changes were made to the body of the standard. Section 4.1(9) was revised because it was noted that a system to read dosimeters is needed to obtain useful information from them. Section 5.1 was revised to emphasize that accident characterization is done to support emergency response planning. Section 7 was reformatted without sub-subsections because reentry, rescue, and stabilization are interrelated topics.

The working group would like to gratefully acknowledge the contributions by Ichiro Nojiri, who died prior to the publication of this revision.

This standard was prepared by Working Group ANS-8.23, composed of the following members:

- J. S. Baker (Chair), Los Alamos National Laboratory
- D. E. Cabrilla, U.S. Department of Energy
- R. W. Carson, Babcock & Wilcox Company
- D. M. D'Aquila, U.S. Enrichment Corporation
- C. M. Hopper, Oak Ridge National Laboratory
- C. S. Lim, Atomic Energy of Canada Limited, Chalk River Laboratories
- I. Nojiri, Japan Nuclear Cycle Development Institute
- V. L. Putman, Bechtel BWXT Idaho, LLC
- R. L. Reed, Washington Safety Management Solutions, LLC
- R. W. Tayloe, Jr., Individual
- H. W. Webb, Nuclear Fuel Services, Inc.

This revised standard was prepared under the guidance of ANS Subcommittee 8, Fissionable Materials Outside Reactors, which had the following membership at the time of its approval of this revision:

- T. P. McLaughlin (Chair), Individual
- J. A. Schlesser (Secretary), Washington Safety Management Solutions, LLC
- F. M. Alcorn, Individual
- H. D. Felsher, U.S. Nuclear Regulatory Commission
- A. S. Garcia, U.S. Department of Energy
- N. Harris, British Nuclear Fuels, PLC
- B. O. Kidd, BWX Technologies, Inc.
- R. A. Libby, Pacific Northwest National Laboratory
- D. A. Reed, Oak Ridge National Laboratory
- T. A. Reilly, Individual
- H. Toffer, Fluor Federal Services
- G. E. Whitesides, Individual

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

- C. M. Hopper (Chair), Oak Ridge National Laboratory
- R. A. Knief (Vice Chair), Sandia National Laboratories
- G. H. Bidinger, Individual
- R. D. Busch, University of New Mexico

- R. S. Eby, American Institute of Chemical Engineers
 M. A. Galloway, U.S. Nuclear Regulatory Commission
 C. D. Manning, AREVA NP
 S. P. Murray, Health Physics Society
 R. E. Pevey, University of Tennessee
 R. L. Reed, Washington Safety Management Solutions, LLC
 B. M. Rothleder, U.S. Department of Energy
 W. R. Shackelford, Nuclear Fuel Services, Inc.
 R. G. Taylor, INM Nuclear Safety Services
 R. M. Westfall, Oak Ridge National Laboratory
 L. L. Wetzel, BWX Technologies, Inc.
 R. E. Wilson, U.S. Department of Energy

Contents	Section	Page
	1 Introduction	1
	2 Scope	1
	3 Definitions 3.1 Limitations 3.2 Shall, should, and may 3.3 Glossary of terms	1 1
	4 Responsibilities	1
	5 Emergency response planning 5.1 Evaluation 5.2 Emergency response plan 5.3 Equipment	$\frac{2}{2}$
	6 Evacuation	3
	7 Reentry, rescue, and stabilization	4
	8 Classroom training, exercises, and evacuation drills 8.1 Classroom training 8.2 Exercises 8.3 Evacuation drills	4 5
	9 References	5
	Bibliography	6
	Appendices Appendix A Selection and Use of Radiation Protection Instrumentation for Emergency Response to a Nuclear Criticality Accident	$7\\12$
	Fyriaga	12