

# American National Standard

**WITHDRAWN**

**nuclear plant reliability  
data collection  
and reporting system**

**No longer being maintained as an  
American National Standard. This  
standard may contain outdated material  
or may have been superseded by  
another standard. Please contact the  
ANS Standards Administrator for details.**



published by the  
**American Nuclear Society**  
244 East Ogden Avenue  
Hinsdale, Illinois 60521, USA

**American National Standard  
Nuclear Plant Reliability Data Collection  
and Reporting System**

**Secretariat  
American Nuclear Society**

**Prepared by the  
American Nuclear Society  
Standards Committee  
Subcommittee N18-20**

**Published by the  
American Nuclear Society  
244 East Ogden Avenue  
Hinsdale, Illinois 60521**

**Approved September 7, 1976  
by the  
American National Standards Institute, Inc.**

## **American National Standard**

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether he has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review and users are cautioned to obtain the latest editions.

**CAUTION NOTICE:** This American National Standard may be reviewed or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken to reaffirm, revise, or withdraw this Standard no later than five years from the date of publication. Purchasers of this Standard may receive current information, including interpretation, on all standards published by the American Nuclear Society by calling or writing to the Society.

Published by

**American Nuclear Society**  
244 East Ogden Avenue, Hinsdale, Illinois 60521

Copyright © 1977 by American Nuclear Society

Any part of this Standard may be quoted. Credit lines should read "Extracted from American National Standard N524-1976 (N18-20) with permission of the publisher, the American Nuclear Society." Reproduction prohibited under copyright convention unless written permission is granted by the American Nuclear Society.

Printed in the United States of America

**Foreword** (This Foreword is not a part of American National Standard Nuclear Plant Reliability Data Collection and Reporting System, N524-1976/N18-20.)

The Nuclear Plant Reliability Data Collection and Reporting System (NPRDS) set forth in this Standard was developed by Subcommittee N18-20 of American National Standards Committee N18, Nuclear Design Criteria, based on earlier work by the Edison Electric Institute's Equipment Availability Task Force and representatives of the five U.S. nuclear steam system suppliers. Subcommittee N18-20 had the following members at the time that this Standard was developed:

R. L. Haueter, Chairman, <i>Consumers Power Company</i>	J. W. Pegram, Jr., <i>Babcock &amp; Wilcox Company</i>
H. M. Hirsch, <i>General Electric Company</i>	S. R. Porter, <i>Westinghouse Electric Corporation</i>
F. Von Hollen, <i>Tennessee Valley Authority</i>	G. L. Stiehl, Jr., <i>General Atomic Company</i>
J. J. Mattimoe, <i>Sacramento Municipal Utility District</i>	B. M. Tashjian, <i>Combustion Engineering, Incorporated</i>
P. A. Morris, <i>United States Atomic Energy Commission</i>	J. P. Whooley, <i>Public Service Electric and Gas Company</i>

The American National Standards Committee N18, Nuclear Design Criteria, which reviewed and approved this Standard in 1976, had the following membership:

L. J. Koch, Chairman  
C. B. Zitek, Secretary

<i>Organization Represented</i>	<i>Name of Representatives</i>
American Chemical Society .....	J. William Morris C. E. Stevenson (Alt)
American Concrete Institute .....	P. E. Mast
American Nuclear Society .....	L. J. Koch
American Society of Civil Engineers .....	M. I. Goldman C. Gogolick (Alt)
American Society of Mechanical Engineers .....	J. S. Bitel R. H. Holyoak (Alt)
American Public Health Association, Inc. ....	J. R. Coleman
American Welding Society .....	J. R. McGuffey
Atomic Industrial Forum .....	I. F. Stuart
Electric Light & Power Group .....	J. E. Howard G. E. Olson (Alt)
Federal Power Commission .....	A. P. Donnell B. P. Chew (Alt)
Health Physics Society .....	J. M. Smith, Jr. R. L. Clark (Alt)
Institute of Electrical & Electronics Engineers .....	R. G. Benham O. W. Bilharz, Jr. (Alt)
Institute of Nuclear Materials Management .....	J. Arendt L. A. Strom (Alt)
Nuclear Energy Liability & Property Insurance Association .....	F. Catudal Franklin Chin (Alt)
U.S. Energy Research & Development Administration .....	W. H. Hannum
U.S. Environmental Protection Agency .....	R. Sullivan G. Burley (Alt)
U.S. Nuclear Regulatory Commission .....	R. B. Minogue G. A. Arlotto (Alt)
Individual Members .....	E. N. Cramer R. J. Creagan J. F. Gibbons T. D. Jones T. J. Pashos D. Patterson A. H. Redding G. C. Robinson R. P. Schmitz G. L. Wessman J. F. West C. B. Zitek

<b>Contents</b>	<b>Section</b>	<b>Page</b>
	1. Introduction .....	1
	2. Objective .....	1
	3. Scope .....	1
	4. Input Reports .....	1
	4.1 Unit Information .....	1
	4.2 Engineering Description .....	1
	4.3 Failure Reports .....	1
	4.4 Quarterly Operating Reports .....	2
	5. Data File Maintenance .....	2
	6. Output Reports .....	2
	6.1 Quarterly Listing of Component and System Engineering Data for Individual Reporting Organizations .....	2
	6.2 Quarterly Component Failure Listing .....	2
	6.3 Annual Report of System Reliability for Individual Reporting Organizations .....	2
	6.4 Annual System and Component Failure Listing by Individual Reporting Organizations .....	2
	6.5 Annual Summary Report of System Reliability .....	2
	6.6 Annual Summary Report of Component Reliability .....	2
	6.7 Special Requests .....	2
	7. Terms to be Used in Reporting .....	2
	Appendix	
	Nuclear Plant Reliability Data System (NPRDS) — Output Related Information .....	5
	Table A-1 Distribution Policy for NPRD Reports and Manuals .....	7