

ANSI
N18.1-1971

American National Standard

**selection and training
of
nuclear power plant personnel**



american national standards institute, inc.
1430 broadway, new york, new york 10018

ANSI
N18.1 - 1971

**Selection and Training
of
Nuclear Power Plant Personnel**

Sponsor
American Nuclear Society

Approved March 8, 1971
American National Standards Institute

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CAUTION NOTICE: This American National Standard may be revised or withdrawn at any time.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 American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published by
AMERICAN NUCLEAR SOCIETY
244 E. Ogden Avenue
Hinsdale, Illinois 60521

Copyright 1971 by the AMERICAN NUCLEAR SOCIETY

Price \$10.00 plus postage and handling

No portion of the publication may be quoted or reproduced in any form without the written permission of the American Nuclear Society.

Printed in USA

FOREWORD

(This Foreword is not a part of American National Standard for Selection and Training of Nuclear Power Plant Personnel, SCN 18.1—1970.)

The personnel of the operating organization who have the responsibility for the safe and efficient operation of a nuclear power plant throughout its operational lifetime must understand the complexities of the plant design and must be capable of properly manipulating the plant controls and maintaining and repairing the plant equipment.

The selection of the operating and support personnel for nuclear power plants and the training of these personnel to provide sound judgement, based on knowledge and experience of nuclear and power plant systems are essential to the safe and successful operation of these plants.

This standard contains criteria for selection and training of nuclear power plant personnel. The ANSI Standards Committee, N18, which processed and approved this Standard, has the following personnel:

W. A. Chittenden, Chairman

L. J. Koch, Secretary

Organization Represented

Name of Representative

American Concrete Institute	Raymond C. Reese
American Chemical Society	J. William Morris
American Nuclear Society	W. A. Chittenden
American Public Health Association, Inc.	James R. Coleman
American Society of Civil Engineers	M. I. Goldman
American Society of Mechanical Engineers	J. J. Poer
American Society for Testing and Materials	G. W. Pomeroy
American Welding Society	J. R. McGuffry
Atomic Industrial Forum	G. Philip Bray
Electric Light & Power Group	J. E. Havard
Federal Power Commission	Robert R. Boyd
Health Physics Society	J. M. Smith
Institute of Electrical and Electronics Engineers	Warren Witzig
Institute of Nuclear Materials Management	John Arendt
Nuclear Energy Liability Insurance Association	Frank Catudal
Underwriters' Laboratories, Inc.	L. H. Horn
U.S. Atomic Energy Commission	E. G. Case
	A. J. Pressesky
	F. J. Shon
U.S. Department of Health, Education, and Welfare	Garry E. Stigall
<i>Individual Members</i>	S. Baron
	R. J. Creagen
	John F. Gibbons
	L. J. Koch
	B. F. Longer
	John F. Morrison
	Grover C. Robinson
	H. B. Stewart
	S. J. Toth
	J. F. West

The standard was prepared by Subcommittee ANS-3, Reactor Operations, of the American Nuclear Society Standards Committee. The members of the Subcommittee ANS-3 are:

G. A. Reed, *Chairman, Wisconsin Michigan Power Company*
H. T. Babb, *Alternate Chairman, South Carolina Electric and Gas Company*
J. C. Carroll, *Pacific Gas and Electric Company*
J. P. Gibbons, *Philadelphia Electric Company*
R. L. Haueter, *Consumers Power Company*
R. F. Jones, *Yankee Atomic Electric Company*

J. A. List, *E. I. du Pont de Nemours and Company*
J. A. Prestele, *Consolidated Edison Company of New York*
D. Thompson, *Atomic Energy Commission*
N. E. Wandke, *Commonwealth Edison Company*
G. K. Whitham, *Argonne National Laboratory*
M. Lyon, *Secretary, Wisconsin Michigan Power Company*

CONTENTS

SECTION	PAGE
1. Scope	5
2. Definitions	5
2.1 Limitations	5
2.2 Glossary of Terms	5
3. Functional Levels and Assignment of Responsibility	6
3.1 General	6
3.2 Operating Organization	6
3.3 Technical Support Personnel	6
4. Qualifications	6
4.1 General	6
4.2 Managers	7
4.3 Supervisors	7
4.4 Professional - Technical	8
4.5 Operator - Technician - Repairman	8
4.6 Technical Support Personnel	8
5. Training	9
5.1 General Aspects	9
5.2 Training of Personnel to be Licensed by the AEC	9
5.3 Training of Personnel Not Requiring AEC Licenses	10
5.4 General Employee Training	10
5.5 Retraining and Replacement Training	10
5.6 Documentation	11
Tables	
Table 1 Minimum Education and Experience for Standard for Selection and Training of Nuclear Power Plant Personnel	12