

An American National Standard

IEEE Standard Installation, Inspection, and Testing Requirements for Power, Instrumentation, and Control Equipment at Nuclear Facilities

Sponsor

**Nuclear Power Engineering Committee
of the
IEEE Power Engineering Society**

Approved December 13, 1984

IEEE Standards Board

Approved April 30, 1985

American National Standards Institute

© Copyright 1985 by

**The Institute of Electrical and Electronics Engineers, Inc
345 East 47th Street, New York, NY 10017, USA**

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

SUPERSEDED

IEEE Standards documents are developed within the Technical Committees of the IEEE Societies and the Standards Coordinating Committees of the IEEE Standards Board. Members of the committees serve voluntarily and without compensation. They are not necessarily members of the Institute. The standards developed within IEEE represent a consensus of the broad expertise on the subject within the Institute as well as those activities outside of IEEE which have expressed an interest in participating in the development of the standard.

Use of an IEEE Standard is wholly voluntary. The existence of an IEEE Standard does not imply that there are no other ways to produce, test, measure, purchase, market, or provide other goods and services related to the scope of the IEEE Standard. Furthermore, the viewpoint expressed at the time a standard is approved and issued is subject to change brought about through developments in the state of the art and comments received from users of the standard. Every IEEE Standard is subjected to review at least once every five years for revision or reaffirmation. When a document is more than five years old, and has not been reaffirmed, it is reasonable to conclude that its contents, although still of some value, do not wholly reflect the present state of the art. Users are cautioned to check to determine that they have the latest edition of any IEEE Standard.

Comments for revision of IEEE Standards are welcome from any interested party, regardless of membership affiliation with IEEE. Suggestions for changes in documents should be in the form of a proposed change of text, together with appropriate supporting comments.

Interpretations: Occasionally questions may arise regarding the meaning of portions of standards as they relate to specific applications. When the need for interpretations is brought to the attention of IEEE, the Institute will initiate action to prepare appropriate responses. Since IEEE Standards represent a consensus of all concerned interests, it is important to ensure that any interpretation has also received the concurrence of a balance of interests. For this reason IEEE and the members of its technical committees are not able to provide an instant response to interpretation requests except in those cases where the matter has previously received formal consideration.

Comments on standards and requests for interpretations should be addressed to:

Secretary, IEEE Standards Board
345 East 47th Street
New York, NY 10017
USA

SUPERSEDED

Foreword

(This foreword is not a part of IEEE Std 336-1985, IEEE Standard Installation, Inspection, and Testing Requirements for Power, Instrumentation, and Control Equipment at Nuclear Facilities.)

This standard originally set forth the requirements for the installation, inspection, and testing of important instrumentation and electric equipment in a nuclear power generating station during its construction phase. This standard was prepared by the Institute of Electrical and Electronics Engineers in response to a request by American National Standards Committee N45 on Reactor Plants and Their Maintenance. The N45 committee was chartered to promote the development of standards for the location, design, construction and maintenance of nuclear reactors and plants embodying nuclear reactors, including the equipment, methods, and components specifically for this purpose.

In May of 1969 the IEEE Joint Committee on Nuclear Power Standards (JCNPS) established an ad hoc committee on the Installation, Inspection, and Testing of Electric and Instrumentation Equipment. The purpose of this committee was to prepare a standard for general industry use that would define the requirements for installation, inspection, and testing of instrumentation and electric equipment that are necessary to ensure attainment of a safe and reliable nuclear power generating station. The ad hoc committee was composed of representatives of key segments of the nuclear industry, including utilities, reactor suppliers, construction contractors, component manufacturers, and consultants.

In 1977 the standard was revised to provide clarity and simplification. In 1979 the standard was again revised to expand the scope to include operating plant modifications that are comparable in nature and extent to those related activities occurring during the initial construction of the station. These revisions were developed by Subcommittee 8 of the Nuclear Power Engineering Committee (NPEC).

This standard was revised to allow application of the requirements to include Nuclear Facilities other than Nuclear Power Generating Stations. Nuclear facilities include facilities for power generation, spent fuel storage, waste storage, fuel processing, plutonium processing, and fuel fabrication.

Suggestions for improvement gained in the use of this standard will be welcomed. They should be addressed to:

Secretary
IEEE Standards Committee
The Institute of Electrical and Electronics Engineers, Inc
345 East 47th Street
New York, NY 10017

SUPERSEDED

At the time of final subcommittee approval, the members of the NPEC Subcommittee SC-8 were:

E. P. Fogarty, Chair

W. Belke
D. O. Bostrum*
W. Clark*
R. W. Clemons
J. C. Crews

D. Ferguson*
A. E. Gallimore*
T. L. Gruber*
R. B. Hubbard
. D. Lamont

W. E. O'Neal*
W. K. Peterson
R. K. Pierson
E. W. Rhoads*
F. W. VanNest

*Principal authors

At the time the IEEE Nuclear Power Engineering Committee approved this standard, it had the following membership:

R. E. Allen, Chair

J. T. Bauer
F. D. Baxter
D. F. Brosnan
F. W. Chandler
R. P. Daigle
E. F. Dowling
E. P. Fogarty
J. M. Gallagher
W. C. Gangloff
J. B. Gardner
L. W. Gaussa
L. C. Gonzalez
B. Grim
R. E. Hall

L. F. Hanes
G. K. Henry
J. T. Keiper
T. S. Killen
A. Laird
D.C. Lamken
G. R. Leidich
R. W. Pack
M. Pal
J. R. Penland
C.A. Petrizzo
G. Pitcher
N. S. Porter
H. V. Redgate
B. M. Rice

W. S. Rautio
A. R. Roby
Z. Sabri
W. F. Sailer
W. G. Schwartz
W. Sprout
A. J. Spurgin
L. Stanley
D. F. Sullivan
P. Szabados
L. D. Test
J. E. Thomas
T. R. Vardaro
F. J. Volpe

SUPERSEDED

When the IEEE Standards Board approved this standard on December 13, 1984, it had the following membership:

James H. Beall, *Chair*
John E. May, *Vice Chair*
Sava I. Sherr, *Secretary*

J. J. Archambault
John T. Boettger
J. V. Bonucchi
Rene Castenschiold
Edward J. Cohen
Len S. Corey
Donald C. Fleckenstein
Jay Forster

Daniel L. Goldberg
Donald N. Heirman
Irvin N. Howell
Jack Kinn
Joseph L. Koepfinger*
Irving Kolodny
George Konomos
R. F. Lawrence

Donald T. Michael*
John P. Riganati
Frank L. Rose
Robert W. Seelbach
Jay A. Stewart
Clifford O. Swanson
W. B. Wilkens
Charles J. Wylie

*Member emeritus