

IEEE

Std 308-1971

***IEEE Standard Criteria for
Class IE Electric Systems for
Nuclear Power Generating Stations***

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IEEE Std 308-1971



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**IEEE
Std 308-1971**

(Revision of
IEEE Std 308-1970)

***IEEE Standard Criteria for
Class IE Electric Systems for
Nuclear Power Generating Stations***

Sponsor
**Joint Committee on Nuclear Power Standards
of the
IEEE Nuclear Science Group
and the
IEEE Power Engineering Society**

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Approved September 16, 1971
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Foreword

This standard presents criteria and requirements for the electric systems of nuclear generating stations specifically related to providing protection to the health and safety of the public. These are based on the following:

- (a) Redundant systems that require electric power are provided to cope with design basis events.
- (b) The conditions and the availability of the various portions of the systems following a design basis event cannot be predicted exactly.
- (c) The access to certain equipment following a design basis event may be limited for several months.

The Institute of Electrical and Electronics Engineers has developed these criteria to provide guidance in the determination of the design features, minimum conditions of operation, and the surveillance requirements related to the electric power systems of the nuclear facility. Each applicant for a construction permit or an operating license for a nuclear facility in the U.S.A. is required to develop these items to comply with the Atomic Energy Commission's Code of Federal Regulations, Part 50.

Adherence to these criteria may not suffice for assuring the public health and safety because it is the integrated performance of the structures, the fluid systems, the instrumentation, and the electric systems of the station that establishes the consequences of accidents. Failure to meet these requirements may be an indication of system inadequacy. Each applicant has the responsibility to assure himself and others that this integrated performance is adequate.

The IEEE will maintain this standard current with the state of the technology. Comments are invited on this Standard as well as suggestions for additional material that should be included. These should be addressed to:

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

IEEE Std 308-1970 was approved in September 1969 and published August 1970. It was the work of Subcommittee 4, Auxiliary Power Systems, of JCNPS (Joint Committee on Nuclear Power Standards) of the IEEE Nuclear Science Group and the IEEE Power Engineering Society. At the time of final approval, the subcommittee members were:

C. J. Wylie, Chairman

R. G. Benham	F. A. Christiana	J. F. Osborn
K. J. Brockwell	R. J. Cooney	D. H. Steele
O. K. Brown	R. L. Ferguson	S. Tjepkema
	F. S. Jurczak	

As the result of experience with IEEE 308-1970 and comments received since its approval, a number of minor revisions were made to the original standards and sections 8, 9, and 10 were added to the present revision. The revised document was prepared by Working Group M of Subcommittee 4 of JCNPS:

K. J. Brockwell, Chairman

R. G. Benham	M. I. Olken
T. J. Martin	J. F. Osborn

At the time this revision was approved by JCNPS at its meeting in Chicago on May 5 and 6, 1971, that Committee had the following membership:

J. C. Russ, *Chairman*

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