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IEEE Trial-Use Standard:
**Criteria for Diesel-Generator Units
Applied as Standby Power Supplies
for Nuclear Power Generating Stations**

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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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Comments on this Trial-use Standard are welcomed and should be addressed to:
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After a trial-use period of approximately one year, the Group responsible for this document will prepare a revision and submit it to the Standards Committee for approval as a full-status standard.

Foreword

(This Foreword is not a part of the IEEE Trial-Use Standard: Criteria for Diesel-Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations.)

This document presents criteria, requirements, design features, and design considerations for the application of diesel-generator units as standby power supplies for nuclear power generating stations that are related to providing protection to the health and safety of the public. It is supplementary to IEEE Std 308-1971, Criteria for Class IE Electrical Systems for Nuclear Power Generating Stations, and specifically amplifies Paragraph 5.2.4, "Standby Power Supplies," of that document with respect to the application of diesel-generator units.

The IEEE has developed this document to provide the principal design criteria, design features, qualification considerations and testing requirements for individual diesel-generator units used in the standby power supply of a nuclear facility, which comply with the Atomic Energy Commission's Code of Federal Regulations (10 CFR 50).

It is the intent of the IEEE to add a Section 5.6.4 entitled "Protection" at some future date, to present required design features and design considerations for protection systems and equipment used in conjunction with the application of diesel-generator units as standby power supplies for nuclear power generating stations. In the interim, users of this document are referred to IEEE Std 308-1971 for general requirements covering the area of protection.

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 systems and the electrical systems of the station that establishes the consequences of accidents. Each applicant has the responsibility to assure himself and others that this integrated performance is adequate.

Comments on this trial-use standard and suggestions for additional material that should be included are welcomed and should be addressed to:

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This document was prepared by Working Group SC4.2 of Subcommittee SC4 — Auxiliary Power Systems — of the IEEE Joint Committee on Nuclear Power Standards. At the time of final subcommittee approval, the members of the subcommittee and the work group were:

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