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IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations

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IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations

Sponsor
Power Generation Committee
of the
IEEE Power Engineering Society

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Foreword

(This Foreword is not a part of IEEE Std 450-1980, IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations.)

Large stationary lead storage batteries play an ever increasing role in substation and generating station control and power systems and in providing the back-up energy for emergencies. This recommended practice fulfills the need within the industry to provide common or standard practices of maintenance, testing, and replacement. The methods described are applicable to all installations and battery sizes.

The installations considered herein are designed for *full-float* operation with a battery charger serving to maintain the battery in a charged condition as well as to supply the normal dc load.

This recommended practice may be used separately, and, when combined with ANSI/IEEE Std 484-1975, Recommended Practice for Installation Design and Installation of Large Lead Storage Batteries for Generating Stations and Substations, and ANSI/IEEE Std 485-1978, Recommended Practice for Sizing Large Lead Storage Batteries for Generating Stations and Substations, will provide the user with a general guide to sizing, designing, placing in service, maintaining, and testing a large storage battery installation. A companion document, IEEE Std 535-1979, provides a Standard for Qualification of Class 1E Lead Storage Batteries for Nuclear Power Generating Stations.

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

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