

Generator Maintenance Guide

This book offers the complete scope of information regarding operation and maintenance of all types of turbine-driven generators built in the world. The information presented is designed to inform the reader about actual machine operational problems and failure modes that occur in generating stations and other types of facilities.

This book offers comprehensive coverage of the operation and maintenance of large hydro generators. This book is a practical handbook for engineers and maintenance staff responsible for the upkeep of large salient-pole hydro generators used in electric power plants. Focusing on the physics and maintenance of large vertical salient pole generators, it offers readers real-world experience, problem description, and solutions, while teaching them about the design, modernization, inspections, maintenance, and operation of salient pole machines. Handbook of Large Hydro Generators: Operation and Maintenance provides an introduction to the principles of operation of synchronous machines. It then covers design and construction, auxiliary systems, operation and control, and monitoring and diagnostics of generators. Generator protection, inspection practices and methodology and auxiliaries inspections are also examined. The final two chapters are dedicated to maintenance and testing, and maintenance philosophies, upgrades, and uprates. The handbook includes over 420 color photos and 180 illustrations, forms, and tables to complement the topics covered in the chapters. Written with a machine operator and inspector in mind, Handbook of Large Hydro Generators: Operation and Maintenance: Instructs readers how to perform complete machine inspections, understand what they are doing, and find solutions for any problems encountered. Includes real-life, practical, field experiences so that readers can familiarize themselves with aspects of machine operation, maintenance, and solutions to common problems. Benefits experienced and new power plant operators, generator design engineers and operations engineers. Is authored by industry experts who participated in the writing and maintenance of IEEE standards (IEEE C50.12 and C50.13) on the subject. Handbook of Large Hydro Generators: Operation and Maintenance is an ideal resource for scientists and engineers whose research interest is in electromagnetic and energy conversion. It is also an excellent book for senior undergraduate and graduate students majoring in energy generation, and generator operation and maintenance.

The MEP series of Military Generators are rugged, durable and incorporate proven diesel engine technology. This book is the intermediate maintenance manual. It is being republished to assist enthusiasts, restorers, and aftermarket owners who use or wish to use these generators outside of military use.

Select, set up, and maintain a reliable home generator. This complete and practical guide shows you, step by step, how to choose the best generator for your needs, safely and properly install it, and handle troubleshooting and maintenance.

Home Generator Selection, Installation, and Repair covers a wide variety of models, including those from the most popular manufacturers--Briggs and Stratton, Coleman, and Honda. Nearly 150 photos and diagrams help you to identify the various electrical components. This hands-on resource also describes the tools you'll need and provides sources for additional information and discount parts. Home Generator Selection, Installation, and Repair explains: How to decipher the technical terminology used in generator manuals. Different types of fuels--gasoline, propane, natural gas, and diesel. How to evaluate a generator's quality. Essential features, including instrumentation, protection from electroshock, and large pneumatic tires for mobility. How to safely connect generator output to home or office circuits. Portable generator support requirements, including proper fuel storage and an inventory of parts, such as oil and air filters. Emergency fixes. Generator troubleshooting and repair procedures. Engine overhaul.

The comprehensive guide for large turbo-generator operation and maintenance. The Handbook of Large Turbo-Generator Operation and Maintenance is an expanded 3rd edition of the authors' second edition of the same book. This updated revision covers additional topics on generators and provides more depth on existing topics. It is the ultimate resource for operators and inspectors of large utility and industrial generating facilities who deal with multiple units of disparate size, origin, and vintage. The book is also an excellent learning tool for students, consulting and design engineers. It offers the complete scope of information regarding operation and maintenance of all types of turbine-driven generators found in the world. Based on the authors' over eighty combined years of generating station and design work experience, the information presented in the book is designed to inform the reader about actual machine operational problems and failure modes that occur in generating stations and other types of facilities. Readers will find very detailed coverage of: Design and construction of generators and auxiliary systems. Generator operation and control, including interaction with the grid. Monitoring, diagnostics, and protection of turbo-generators. Inspection practices for the stator, rotor, and auxiliary systems. Maintenance testing, including electrical and non-destructive examination. Ideas on maintenance strategies and life cycle management. Additional topics on uprating of generators and long term storage are also included. The Handbook of Large Turbo-Generator Operation and Maintenance comes packed with photos and graphs, commonly used inspection forms, and extensive references for each topic. It is an indispensable reference for anyone involved in the design, construction, operation, protection, maintenance, and troubleshooting of large generators in generating stations and industrial power facilities.

The MEP series of Military Generators are rugged, durable and incorporate proven diesel engine technology. This book is the combined Operator, Maintenance, and Parts List Manual. It is being republished to assist enthusiasts, restorers, and aftermarket owners who use or wish to use these generators outside of military use.

Operator and Organizational Maintenance Manual. Generator Set, Gas Turbine Engine : 45 KW, AC, 120/208, 240/416V, 3 Phase, 4 Wire : Skid Mounted, Winterized, (Airesearch Model GTGE 70-6-1), FSN 6115-075-1639. Operator's and Organizational Maintenance Manual. Signal Generator SG-1171/U, (NSN 6625-01-133-6160). Handbook of Large Turbo-Generator Operation and Maintenance. John Wiley & Sons.

The MEP series of Military Generators are rugged, durable and incorporate proven diesel engine technology. This book is the depot maintenance manual. It also includes the repair parts and special tools list. It is being republished to assist enthusiasts, restorers, and aftermarket owners who use or wish to use these generators outside of military use.

General recommendations for the operation, loading, and maintenance of synchronous hydro-generators and generator/motors are covered. This guide does not apply to synchronous machines having cylindrical rotors. In this guide, the term hydro-generator is used to describe a synchronous machine coupled to a hydraulic turbine or pump-turbine. This guide is not intended to apply in any way to the prime mover.

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