



# TEST AND COMMISSIONING MANUAL

Refer to the Substation Controlled Drawings- 1 - 28468627 and associated Substation Controlled Drawings Quick Reference Guide - 2913527 for details of the drawing management process.

The Greenlining and Bluellining of E.ON Energy Substation Drawings - 28976558 describes how continuity and functional testing is carried out during the testing and commissioning process.

Note that:

- Greenlining is carried out on the Greenlining Test Copy (Drawing Set 8). Each workgroup must use a different colour highlighter from the previous workgroup when doing continuity testing, and clearly identify on the first drawing of the set which colour belongs to them. Green is always reserved for the first workgroup.
- Bluellining is carried out on the Bluellining Test Copy (Drawing Set 12). Each workgroup must use a different colour highlighter from the previous workgroup when doing functional testing, and clearly identify on the first drawing of the set which colour belongs to them. Blue is always reserved for the last (SIT) workgroup.

Drawing Sets 1 (Master Copy), 8 and 12 are not "owned" by any one workgroup - the workgroup doing the relevant work is the temporary custodian before passing the drawings on to the next workgroup. If another workgroup has the drawing set you need, it is still your responsibility to transfer the relevant mark-ups / Greenlining / Bluellining to the correct set when you receive it. Drawing sets shall not be split up between different workgroups because of the risk of losing drawings or making errors in version control.

It is the responsibility of the Officer Responsible for Testing to ensure that all mark-ups recorded on the "Bluellining Test Copy" (Drawing Set 12) are transferred to the "Site Initial Record Copy" (Drawing Set 13) and the "Master Copy" (Drawing Set 1) prior to returning the drawings to the Project Manager.

The "Site Initial Record Copy" (Drawing Set 13) will be retained on site with all mark-ups for use as the site copy until it is replaced with "Substation As Constructed" (Drawing Set 20) copy. The "Site Initial Record Copy" will not be used for capturing testing progress.

When on site, test and commissioning activities have been completed the "Bluellining Test Copy" will be retained by the local test section such that they can perform operational response duties. The "Bluellining Test Copy" will be retained by the local test section until the "Test Section As Constructed" copy (Drawing Set 21) are issued to the test section.

## 9. SUBMISSION OF APPLICATION FOR WORK REQUESTS AND SYSTEM OUTAGES

The Commissioning Officer is accountable for tentatively entering AFWs relating to integration and testing activities in the E.ON Energy FeederSTAT system. The Commissioning Officer should be recorded as the AFW applicant (to ensure they are automatically notified of any changes to or the rejection of the AFW). It will be the responsibility of the supervisor of crews working under the AFW to review the AFW to ensure it is suitable for the work being undertaken. Where contractors are working under the AFW, the Contracts Officer / Project Delivery Co-ordinator is required to review the AFW to ensure it is suitable for the work being undertaken.

Where planned field crews performing the work change due to unforeseen circumstances it is the responsibility of the supervisor to ensure that newly appointed staff are provided sufficient time to review and familiarise themselves with the AFW details.

The Commissioning Officer will provide ongoing support as required to ensure that the co-ordination of multiple work groups is correctly reflected in the AFW.

# Substation Commissioning Engineer Manual

**Kathleen Armour**

## **Substation Commissioning Engineer Manual:**

*Electric Power Substations Engineering* John D. McDonald, 2017-12-19 The use of electric power substations in generation transmission and distribution remains one of the most challenging and exciting areas of electric power engineering. Recent technological developments have had a tremendous impact on all aspects of substation design and operation. With 80% of its chapters completely revised and two brand new chapters on energy storage and Smart Grids, *Electric Power Substations Engineering* Third Edition provides an extensive updated overview of substations serving as a reference and guide for both industry and academia. Contributors have written each chapter with detailed design information for electric power engineering professionals and other engineering professionals e.g. mechanical, civil who want an overview or specific information on this challenging and important area. This book emphasizes the practical application of the technology. Includes extensive use of graphics and photographs to visually convey the book's concepts. Provides applicable IEEE industry standards in each chapter. Is written by industry experts who have an average of 25 to 30 years of industry experience. Presents a new chapter addressing the key role of the substation in Smart Grids. Editor: John McDonald and this very impressive group of contributors cover all aspects of substations from the initial concept through design, automation and operation. The book's chapters which delve into physical and cyber security, commissioning and energy storage are written as tutorials and provide references for further reading and study. As with the other volumes in the *Electric Power Engineering Handbook* series, this book supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material. Several chapter authors are members of the IEEE Power Energy Society PES Substations Committee and are the actual experts who are developing the standards that govern all aspects of substations. As a result, this book contains the most recent technological developments in industry practice and standards. Watch John D. McDonald talk about his book. A volume in the *Electric Power Engineering Handbook* Third Edition. Other volumes in the set: K12642 *Electric Power Generation, Transmission and Distribution* Third Edition ISBN 9781439856284; K12648 *Power Systems* Third Edition ISBN 9781439856338; K13917 *Power System Stability and Control* Third Edition ISBN 9781439883204; K12643 *Electric Power Transformer Engineering* Third Edition ISBN 9781439856291.

*Advanced Hybrid Information Processing* Lin Yun, Jiang Han, Yu Han, 2024-03-23 This four volume set constitutes the post-conference proceedings of the 7th EAI International Conference on Advanced Hybrid Information Processing (ADHIP 2023) held in Harbin, China, during September 22-24, 2023. The 108 full papers presented were selected from 270 submissions and focus on theory and application of hybrid information processing technology for smarter and more effective research and application. The theme of ADHIP 2022 was "Hybrid Information Processing in Meta World". The papers are named in topical sections as follows: wireless communication for social information processing, artificial intelligence technology, mobile education, mobile monitoring, behavior understanding, and object tracking, wireless networks for social information processing.

image information processing mobile monitoring civilian audio and acoustic signal processing Irrigation and Power ,1991

*IEEE Recommended Practice for Electric Power Distribution for Industrial Plants* Institute of Electrical and Electronics Engineers,IEEE Industry Applications Society. Power Systems Engineering Committee,1994 A thorough analysis of basic electrical systems considerations is presented Guidance is provided in design construction and continuity of an overall system to achieve safety of life and preservation of property reliability simplicity of operation voltage regulation in the utilization of equipment within the tolerance limits under all load conditions care and maintenance and flexibility to permit development and expansion Recommendations are made regarding system planning voltage considerations surge voltage protection system protective devices fault calculations grounding power switching transformation and motor control apparatus instruments and meters cable systems busways electrical energy conservation and cost estimation

### **Proceedings of 2020 International Top-Level Forum on Engineering Science and Technology Development**

**Strategy and The 5th PURPLE MOUNTAIN FORUM (PMF2020)** Yusheng Xue,Yuping Zheng,Anjan Bose,2021-01-23 This book includes original peer reviewed research papers from the 2020 International Top Level Forum on Engineering Science and Technology Development Strategy the 5th PURPLE MOUNTAIN FORUM on Smart Grid Protection and Control PMF2020 held in Nanjing China on August 15 16 2020 Hot topics and cutting edge technologies are included Advanced Power Transmission Technology AC DC Hybrid Power Grid Technology eIoT Technology and Application Operation Protection and Control of Power Systems Supplied with High Penetration of Renewable Energy Sources Active Distribution Network Technology Smart Power Consumption and Energy saving Technology New Technology on Substation Automation Clean Energy Technology Energy Storage Technology and Application Key Technology and Application of Integrated Energy Application of AI Block Chain Big Data and Other New Technologies in Energy Industry Application of New Information and Communication Technology in Energy Industry Application of Technical Standard System and Related Research in Energy Industry The papers included in this proceeding share the latest research results and practical application examples on the methodologies and algorithms in these areas which makes the book a valuable reference for researchers engineers and university students

*Conference Proceedings IEEE Power Engineering Society. Winter Meeting,2000* **Electrical Engineer's Reference Book** M. A. Laughton,D.F. Warne,2002-09-27 For ease of use this edition has been divided into the following subject sections general principles materials and processes control power electronics and drives environment power generation transmission and distribution power systems sectors of electricity use New chapters and major revisions include industrial instrumentation digital control systems programmable controllers electronic power conversion environmental control hazardous area technology electromagnetic compatibility alternative energy sources alternating current generators electromagnetic transients power system planning reactive power plant and FACTS controllers electricity economics and trading power quality An essential source of techniques data and principles for all practising electrical

engineers Written by an international team of experts from engineering companies and universities Includes a major new section on control systems PLCs and microprocessors **Electrical Engineer's Reference Book** G R Jones,2013-10-22 A long established reference book radical revision for the fifteenth edition includes complete rearrangement to take in chapters on new topics and regroup the subjects covered for easy access to information The Electrical Engineer's Reference Book first published in 1945 maintains its original aims to reflect the state of the art in electrical science and technology and cater for the needs of practising engineers Most chapters have been revised and many augmented so as to deal properly with both fundamental developments and new technology and applications that have come to the fore since the fourteenth edition was published 1985 Topics covered by new chapters or radically updated sections include digital and programmable electronic systems reliability analysis EMC power electronics fundamental properties of materials optical fibres maintenance in power systems electroheat and welding agriculture and horticulture aeronautic transportation health and safety procurement and purchasing engineering economics

**The Electrical Review** ,1975 **Telegraphic Journal and Monthly Illustrated Review of Electrical Science** ,1963 **Electrical Times** ,1968 **Power Distribution Conference** ,1985

**Handbook on Construction Techniques** Rajat Jain,Shotaro Sasaki,2015 **Cyber Security for Critical Infrastructure** K S Manoj,2022-01-31 Today cyberspace has emerged as a domain of its own in many ways like land sea and air Even if a nation is small in land area low in GDP per capita low in resources less important in geopolitics low in strength of armed forces it can become a military super power if it is capable of launching a cyber attack on critical infrastructures of any other nation including superpowers and crumble that nation In fact cyber space redefining our security assumptions and defense strategies This book explains the current cyber threat landscape and discusses the strategies being used by governments and corporate sectors to protect Critical Infrastructure CI against these threats **Consulting-specifying Engineer** ,1995

**Beama Journal** ,1927 **World Power** ,1927 **Modern Power Systems** ,1982 **MEED.** ,1985 **Indian Trade Journal** ,2012-05-05

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