

IEEE Guide for Cable Connections for Gas-Insulated Substations

IEEE Power & Energy Society

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Ieee 1300 2011 Ieee Guide For Cable Connections For Gas Insulated Substations

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IEEE Std 1300-2011 (Revision of IEEE Std 1300-1996) ,2012 IEEE Std 1300-2011 (Revision of IEEE Std 1300-1996) - Redline ,2012 *Gas Insulated Substations* Hermann J. Koch,2022-01-24 GAS INSULATED SUBSTATIONS An essential reference guide to gas insulated substations The second edition of Gas Insulated Substations GIS is an all inclusive reference guide to gas insulated substations GIS and its advanced technologies Updated to the latest technical developments and applications the guide covers basic physics of gas insulated systems SF6 insulating gas and its alternatives safety aspects and factors to choose GIS GIS technology its modular structure control and monitoring systems testing installation rules and guidelines for operation specification and maintenance Detailed information on various types for GIS with 14 reference project explanations and three extensive case studies give information for the best solutions of practical applications Special solutions using mobile substations concepts mixed technology switchgear MTS with air and gas insulated technology underground substations and the use of special GIS substation buildings e g shopping centers parking lots city parks business complexes or subway stations are explained Future developments of GIS technology are shown for the next steps in alternatives to SF6 low power instrument transformers and digitalization of substations A new chapter explains advanced technologies applied to GIS projects which cover the following environmental issues for the substation permission process insulation coordination studies for the network requirements including very fast transients project scope development risk based asset management health and safety impact electromagnetic fields SF6 decomposition byproducts and condition assessment Disruptive development steps in gas insulated substations technologies are also covered in this second edition Vacuum breaking and switching technology for rated voltages of up to 500 kV is explained in detail with its physical background Principle function and possible implementation of low power instrument transformers LPIT are explained and examples of applications are given The principles of digital twin for gas insulated substations GIS and gas insulated transmission lines GIL are explained in theory and project applications show the practical use and advantage The wide and fast growing technical field of offshore GIS applications for AC and DC is explained on many examples and gives information on special requirements when getting offshore Theoretical requirements on DC gas insulated systems methods of testing prototype installation tests modular design features and advantages in applications are given Finally impact and advantages of digital substations using GIS are explained Key features Written by leading GIS experts involved in development and project applications Discusses practical and theoretical aspects Detailed material of GIS for new and experienced GIS users and project planners Invaluable guide to practicing electrical mechanical and civil engineers as well as third and fourth year electric power engineering students **IEEE Guide for Cable Connections for Gas-insulated Substations** ,2012 Abstract This guide establishes typical dimensions for connections of a gas insulated substation GIS to extruded self contained fluid filled and high pressure fluid filled pipe type cables in single and three phase arrangements for voltages 72 5

kV to 550 kV Keywords cable connections gas insulated substations GIS IEEE 1300 terminations 1300-1996 IEEE Guide for Cable Connections for Gas-Insulated Substations , IEEE P1300/D3, October 2011 ,2010 1300-2011 IEEE Guide for Cable Connections for Gas-Insulated Substations - Redline , IEEE Std 1300-1996 IEEE,19?? Abstract The coordination of design material supply installation and test procedures required for the connection of a gas insulated substation GIS is described Preferred dimensions for mechanical and electrical interchangeability for voltage classes of 69 kV and above are established Keywords cable connection gas insulated substation GIS **IEEE Draft Guide for Cable Connections for Gas Insulated Substations** ,2010 **525-1992 IEEE Guide for the Design and Installation of Cable Systems in Substations** , IEEE Guide for the Design and Installation of Cable Systems in Substations , The design installation and protection of wire and cable systems in substations are covered in this guide with the objective of minimizing cable failures and their consequences IEEE Std 55-1953 ,1953 **An American National Standard** ,1987 IEEE Guide for Temperature Correlation in the Connection of Insulated Wire and Cables to Electronic Equipment ,1953 IEEE Guide for Temperature Correlation in the Connection of Insulated Wire and Cables to Electronic Equipment (effective January 15, 1953). ,1953 55-1953 IEEE Guide for Temperature Correlation in the Connection of Insulated Wire and Cables to Electronic Equipment , **IEEE Standard for Power Cable Joints** ,1977 1333-1994 IEEE Guide for Installation of Cable Using the Guided Boring Method , IEEE Guide for Installation Methods for Generating Station Cables ,1994-09-01 Installation methods to improve cable installation practices in generating stations are provided These include cable lubrication methods conduit cable pulling charts pull rope selection criteria pulling attachment methods and alternative methods to traditional cable pulling tension monitoring This guide supplements IEEE Std 422 1986 and IEEE Std 690 1984 which provide specific cable installation limits This guide may also be of benefit to cable pulling crews in commercial and industrial facility when similar cable types and raceways are used **IEEE Guide for Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems Rated 5 KV and Above** ,2012

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