

ELECTRA

SC B4 (SC 14) ELECTRA PUBLICATIONS 1967-2017

- ELT_034_1 1974 SC 14/33 *Insulation Levels for HVDC Terminals*
- ELT_038_2 1975 *Observation of overvoltages under normal commercial operation at the AC/DC converter station Lydd.*
- ELT_057_1 1978 *A ten year review of HVDC transmission systems 1967-1976*
- ELT_063_2 1979 WG 14.03 *A general survey of AC harmonic filters and reactive compensation for HVDC*
- ELT_064_2 1979 *Design and test methods for combined spark gaps of DC arresters*
- ELT_091_2 1983 *Use of static or synchronous compensators in HVDC systems*
- ELT_124_2 1989 JWG 13/14.08 *The current commutation function of HVDC switching devices.*
- ELT_125_1 1989 JWG 13/14.08 *Switching devices other than circuit-breakers for HVDC systems. Part I : Current commutation switches.*
- ELT_125_2 1989 TF 14.01.01 *Voltage and Current Stresses on HVDC Valves*
- ELT_135_3 1991 JWG 13/14.08 *Switching devices other than circuit-breakers for HVDC systems. Part 2 : Disconnectors and earthing switches.*
- ELT_135_4 1991 WG 14.02 *First Benchmark Model for HVDC Control Studies*
- ELT_149_2 1993 JWG 11/14.09 *Direct Connection of Generators to HVDC Converters: Main Characteristics and Comparative Advantages*
- ELT_149_4 1993 JWG 14.03/36.05 *Connection of harmonics producing installations in AC high voltage networks with particular reference to HVDC. Guide for limiting harmonic voltage effects.*
- ELT_155_1 1994 JWG 12/14.10.01 *In-service performance of HVDC converter transformers and oil-cooled smoothing reactors.*
- ELT_157_1 1994 JWG 12/14.10 *The relationship between test and service stresses as a function of resistivity ratio for HVDC converter transformer and smoothing reactors.*
- ELT_157_2 1994 WG 14.02 *The CIGRE HVDC Benchmark Model: A new Proposal with Revised Parameters.*
- ELT_159_2 1995 WG 14.03 *Connection of harmonic producing installations in AC high voltage networks with particular reference to HVDC.*
- ELT_163_4 1995 JWG 13/14.08 *Circuit-breakers for meshed multiterminal HVDC systems. Part 1: Introduction - DC side substation switching under normal and fault conditions.*

ELT_164_2 1996 JWG 13/14.08 *Circuit-breakers for meshed multi-terminal HVDC systems. Part II: Switching of transmission lines in meshed MTDC systems.*

ELT_167_1 1996 JWG 11/14.09 *Adjustable Speed Operation of Hydraulic Turbine Generators*

ELT_167_3 1996 JWG 12/14.10 *Consideration of impedance and tolerances for HVDC converter transformer.*

ELT_169_4 1996 WG 14.02 *Commutation Failures in HVDC Transmission Systems due to AC System Faults.*

ELT_171_1 1997 WG 14.02 *On the control of a multiterminal HVDC system having also weak inverter stations.*

ELT_174_1 1997 JWG 12/14.10 *Load losses in HVDC converter transformers*

ELT_187_1 1999 *Active DC filters in HVDC applications.*

ELT_193_1 2000 SC 12/13/14/15/21/23/37 *High temperature superconductor applications in electrical power systems.*

ELT_195_4 2001 *FACTS technology for open access*

ELT_196_4 2001 WG 14.20 *Economic assessment of HVDC links*

ELT_203_5 2002 WG 14.31 *Custom power - State-of-the-art*

ELT_205_5 2002 WG 14.32 *HVDC converter stations for DC voltages above +/- 600 kV*

ELT_207_4 2003 WG 14.05 *On voltage and power stability in AC/DC systems*

ELT_207_5 2003 WG 14.28 *Active filters in HVDC applications*

ELT_211_4 2003 WG B4.19 *Static synchronous compensator (STATCOM) for arc furnace and flicker compensation*

ELT_212_6 2004 JWG B4.O4/A2.1 *Analysis of HVDC thyristor converter transformer performance*

ELT_212_7 2004 WG B4.35 *Thyristor controlled voltage regulators- Part 1 : Non-conventional static reactive power regulation*

ELT_213_5 2004 WG B4.35 *Thyristor controlled voltage regulators- Part 2: Static on-load transformer tap changers*

ELT_219_4 2005 WG B4.37 *VSC Transmission*

ELT_222_5 2005 WG B4.33 *HVDC and FACTS for distribution systems*

ELT_233_2 2007 WG B4.41 *Systems with multiple DC infeed*

ELT_235_4 2007 JWG B4/A3/B3.43 *Increased System Efficiency by Use of New Generations of Power Semiconductors*

ELT_238_6 2008 WG B4.34 *Capacitor Commutated Converted (CCC) HVDC Interconnections: Digital modeling and Benchmark Circuit*

ELT_241_6 2008 WG B4.41 *Systems with multiple DC Infeed*

ELT_242_7 2009 WG B4.40 *Static Synchronous Series Compensator (SSSC)*

ELT_245_4 2009 JWG B2/B4/C1.17 *Impacts of HVDC lines on the economics of HVDC project*

ELT_248_6 2010 JWG A2/B4.28 *406 HVDC Converter Transformers - Design review, test procedures, ageing evaluation and reliability in service. 407 HVDC Converter Transformers - Guidelines for conducting design reviews for HVDC converter transformers*

ELT_250_3 2010 WG B4.45 *Innovative Solutions for Overhead Line Supports*

ELT_250_4 2010 WG B4.45 *Technological Assessment of 800kV HVDC Applications*

ELT_254_4 2011 WG B4.48 *Components Testing of VSC System for HVDC Applications*

ELT_257_7 2011 WG B4/C3/B2.50 *Electric Field and Ion Current Environment of HVDC Overhead Transmission Lines*

ELT_259_8 2011 WG B5/B4.25 *Impact of HVDC Stations on Protection of AC Systems*

ELT_264_2 2012 WG B4.44 *HVDC Environmental Planning Guidelines*

ELT_267_5 2013 WG B4.52 *HVDC Grid Feasibility Study*

ELT_267_8 2013 JWG C4/B4/C1.604 *Influence of Embedded HVDC Transmission on System Security and AC Network Performance*

ELT_270_4 2013 WG B4.47 *Special Aspects of AC Filter Design for HVDC Systems*

ELT_271_8 2013 WG B4.38 *Modelling and Simulation Studies to be performed during the lifecycle of HVDC Systems*

ELT_276_6 2014 WG B4.04 *Protocol for Reporting Operational Performance of HVDC Systems*

ELT_279_2 2015 WG B4.37 *Guide for the Development of Models for HVDC Converters in a HVDC Grid*

ELT_279_7 2015 WG B4.51 *Study of Converter Transients*

ELT_280_8 2015 WG B4.04 *Converter Transformer Failure Survey Results From 2003 to 2012*

ELT_281_3 2015 WG B4.55 *HVDC Connection of Offshore Wind Power Plants*

ELT_285_6 2016 WG B4.54 *Guidelines for life extension of existing HVDC systems*

ELT_286_6 2016 WG B4.56 *Guidelines for the preparation of "connection agreements" or "Grid Codes" for multi-terminal DC schemes and DC Grids*

ELT_288_3 2016 WG B4.53 *Guidelines for the procurement and testing of STATCOMS*

ELT_290_3 2017 WG B4.62 *Connection of wind farms to weak AC networks*

ELT_292_1 2017 JWG A3/B4.34 *Technical requirements and specifications of state-of-the-art HVDC switching equipment*

ELT_292_2 2017 JWG B4/C1.65 *Recommended voltages for HVDC grids*

ELT_294_3 2017 WG B4.63 *Testing and commissioning of VSC HVDC systems*

ELT_294_5 2017 WG B4.58 *Control methodologies for direct voltage and power flow in a meshed HVDC Grid*

ELT_296_6 2018 WG B4.60 *Designing HVDC grids for optimal reliability and availability performance*