



e-cigre

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Reference: **SESSION_2021_D1**



Type:

Session Materials

Title:

Sessions 2020 & 2021 - SC D1 Package

Contents:

Videos

SC D1

- **2020** - Paper Session 1 (2020.09.02)
- **2020** - Paper Session 2 (2020.09.02)
- **2020** - Paper Session 3 (2020.09.03)
- **2020** - Paper Session 4 (2020.09.03)
- **2020** - Tutorial: Mechanical properties of insulating materials and insulated conductors for oil insulated power transformers
- **2021** - GDM 1 (2021.08.24)
- **2021** - GDM 2 (2021.08.25)
- **2021** - Tutorial: Dielectric testing of gas insulated HVDC systems

General

- **2020** e-session Opening Ceremony (2020.08.24)
- **2020** e-session International NGN Activities Update and Discussion (2020.08.28)
- **2020** e-session_20200828_Women in Engineering_ Embracing Change and Overcoming Barriers (2020.08.28)
- **2020** e-session_20200903_closing speech from CIGRE President, Michel AUGONNET (2020.09.03)
- **2021** VCS Opening Ceremony (2021.08.20)
- **2021** VCS NGN (2021.08.23)

- **2021** VCS Women in Energy (2021.08.23)

Documents PDF

Session Papers & presentations

- **D1-101** Predictive maintenance based on continuous monitoring of OLTCs electrical signatures
- **D1-102** Development and implementation of Partial discharges on-line monitoring module in GIS 110KV switchgears
- **D1-103** Identification and Improved Quantification of Inhibitors in Mineral Insulating Oils using FTIR Spectroscopy and Partial Least Squares Regression
- **D1-104** Influence of temperature variation on transformer bushing monitoring
- **D1-105** A New Partial Discharge Measuring System in HVGIS Based on Magnetic Field Antennas
- **D1-106** Challenges for space charge measurements with the PEA technique in the thick insulation of HVDC Cables
- **D1-107** Cigré Prototype Installation Test for Gas-Insulated DC Systems - Testing a Gas-Insulated DC Transmission line (DC-GIL) for ± 550 kV and 5000 A under Real Service Conditions
- **D1-108** Evaluation of dynamic loading capability for optimal loading strategies of power transformers
- **D1-109** Partial Discharge Analysis in Gas-Insulated HVDC Systems Using Conventional and Non-Conventional Methods
- **D1-110** Spectral measurement of the precipitations composition in OIP insulation of the high-voltage bushings
- **D1-111** A measurement system for insulator puncture test with short front impulse voltage
- **D1-112** Extended Frequency Range Testing of HV Cables
- **D1-113** PD Testing Setup Composed by GIS, Cable and Power Transformer to Compare Different PD Monitoring Technologies
- **D1-114** On-Line Diagnosis Methods for Transformer Winding Deformation Based on Running Voltage and Current Correlation Mining
- **D1-115** Development of a Multi-Parameter Online Monitoring Equipment for EHV Transformer Bushing
- **D1-116** Proposal of a Calibration Methodology of UHF Partial Discharge Measurements for Power Transformers
- **D1-117** A new method for evaluating the degree of polymerization of paper insulation of power transformers
- **D1-118** Field Experience in Oil-filled Power Transformers Fault Diagnosis by Frequency Response of Stray Losses (FRSL)
- **D1-119** Analysis of puncture breakdown characteristics according to inner defect types of GIS epoxy insulator
- **D1-120** Oxidative degradation of mineral oils in power transformers over service time. Effect of the economic owner on maintenance strategies
- **D1-121** Development of OF Cable Insulation Deterioration Diagnosis Technique Using Support Vector Machine
- **D1-122** Monitoring of active part drying for instrument transformers by dielectric measurements

- **D1-123** Measurement and behavior of partial discharge for SF6 substitute gases in HVDC GIS/GIL
- **D1-202** Proposal of test method for evaluating the induction time (IT) of natural ester insulating oils
- **D1-203** LCA and Smoke Test of Dielectric Fluids based on Natural Esters
- **D1-204** Investigation into the effect of cold temperature on the physical properties of dielectric liquids
- **D1-206** Characterization of pressboard mechanical properties for understanding the dynamic behaviour of transformer winding clamping pressure
- **D1-207** A new type of failure of composite insulators: service experience, degradation characteristics, root cause, experimental simulation and countermeasures
- **D1-208** Investigations of long-term transition processes on solid-gas insulated HVDC bushings under high thermal and electrical stress
- **D1-209** The Electrical Characteristics of Low Current Surface Discharges with Liquid Electrodes and the Adaption of Test Parameters for a DC Inclined-Plane-Test
- **D1-210** Analysis of stray gas according to oil characteristics and vacuum process conditions of insulation oil in power transformer
- **D1-211** Analysis Of 400 Kv Failed Silicone Rubber Insulators: Role Of Micro-Cracks In Glass Fiber Rod And Electric Field Distribution In Failure Mechanism-Case Study
- **D1-212** Implementation of space charge measurement using the Pulsed Electro-Acoustic method during ageing of HVDC model cable
- **D1-213** Low temperature behaviour and dielectric performance of Fluoronitrile/CO2/ O2 mixture
- **D1-214** Degradation of insulating gases with low environmental footprint in operation
- **D1-301** Byproduct-free curing of a highly insulating polyethylene copolymer blend: an alternative to peroxide crosslinking
- **D1-302** Replacement of area substation transformers with flexible units of reduced footprint and increased overloadability
- **D1-303** New test procedure intended to evaluate adhesion of core/housing interface of composite insulators
- **D1-304** Measurement and simulation of transient field stresses and impacts on advanced insulation design and new test procedures for HVDC components
- **D1-305** 3D Printed Solid Insulator: Possibilities and Challenges
- **D1-306** Features of the choosing insulation voltage of AC systems under increased frequency
- **D1-307** Electric Field Relaxation by Functionally Graded Insulating Materials in GIS
- **D1-308** Erosion Performance of Boron Nitride Filled Silicone Rubber Composite as an Outdoor Insulator Weathershed Material
- **D1-309** Dielectric stress on and design of GIS support insulators for HVDC-applications

Summary Report

- **2020** SC D1

- **2020 D1-NGN 01** Investigation of the innovative type of insulation SCOTCH 1601

Questions

- **2020** D1 e-session questions

Workshop

- **2021** - Forum A3/B3/D1: SF6 alternatives workshop

More Informations :

File Size:75,8 MB **Study Committee :** D1 **Year:**2021
