

3rd International Tutorial (Online)

Application Guide for Partial Discharge (PD)

Detection in GIS using UHF or Acoustic Methods

Under the aegis of CIGRE National Study Committee D1 on Material and Emerging Test Techniques

2nd December 2020

At 15:00 Hrs. (90 Minutes)

INTERNATIONAL SPEAKER FROM CIGRE



DR. UWE SCHICHLER
GERMANY

Uwe Schichler was born in Hanover, Germany in 1965. He received his diploma in Electrical Engineering in 1991 and Ph.D. in High Voltage Engineering in 1996 at the University of Hanover, Germany. He joined Siemens Switchgear Factory Berlin in 1996 and was responsible for GIS Product Quality, Technology, and Condition Monitoring. Since 2014 he is full professor at the Graz University of Technology in Austria and head of the Institute of High Voltage Engineering and System Performance.

From 2002 - 2016 he was the convenor of CIGRE AG D1.03 "Insulating Gases" and convenor of other working groups at SC D1 related to insulating materials, test techniques, and partial discharges at gas-insulated systems. From 2004 to 2012 he was the German representative on CIGRE Study Committee D1 "Materials and Emerging Test Techniques". Since 2014 he is member of the Austrian National Committee of CIGRE and Austrian delegate for Study Committee B3 "Substations". In 2014 he received the CIGRE Tech. Award from SC D1.

He is author and co-author of more than 140 scientific papers, member of CIGRE, OVE, VDE, and IEEE.

TAKEAWAY

Gas-insulated switchgear (GIS) have been in operation for more than 45 years and it shows a high level of reliability. However, the return of experience from GIS indicates that some of the in-service failures are related to defects in the insulation system. Many of these defects can be detected by partial discharge (PD) diagnostics. An Electra Report published in 1999 describes the two-step procedure for the sensitivity verification of the UHF and acoustic system. The CIGRE Technical Brochure No. 654 collects the available experience on sensitivity verification from the last 15 years and describes its practical applications for GIS. It summarizes the established guidelines and recommendations which will help manufacturers and users in the effective application of the UHF method for PD detection on GIS. In addition general guidelines on the acoustic method for PD detection will be presented.

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ORGANIZER



IN ASSOCIATION WITH



TUTORIAL CONDUCTED ON



ABOUT CIGRE AND CIGRE-India

The International Council on Large Electric Systems (CIGRE), with its Headquarters at Paris deals in the field of Transmission and Generation. It functions through 16 Study Committees formed for various disciplines of Power Systems. Each Study Committee comprises about 30 experts drawn from various countries. In addition, some more experts are members of the Working Groups/Task Forces formed by these Study Committees. It is a matter of pride that India is represented in all the 16 CIGRE Study Committees as regular member.

CIGRE (Paris) has about 14000 members from 100 countries. Wherever there are more than 40 equivalent members in any country a National Committee is formed with the following aims:

- To disseminate the technical information to the members of the national committee.
- To propose papers for presentation at CIGRE sessions
- To encourage membership of CIGRE
- To organize representation in CIGRE session / symposia.

CIGRE (India) is an affiliate of Central Board of Irrigation and Power. It is the Indian National Committee of CIGRE and is a registered society. It co-ordinates the activities of CIGRE in India, through a number of National Study Committees and disseminates the information about the activities of the CIGRE Study Committees and Working Groups to various organization in India. From India there were 820 equivalent members for CIGRE in the year 2019.

UNIQUE FEATURES OF ONLINE PRACTICAL TRAININGS

- Training with high safety of participant's w.r.t. COVID-19 as no travel & travel related cost is involved.
- Expert's Panel discussions within participants.
- Learning and working balance as our sessions are planned for 2 hours in a day.
- Well proven online platform with high cyber security.
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- Real time engagement.
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FACILITATION CHARGES

The duration for online training will be of 1 hr. 30 min. will be for technical session followed by 30 minutes for question/ answer session.

Category	Charges in INR	
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Individual Login	1,000/-	1,200/-
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Up to 10 Login	9,000/-	11,000/-
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First 25 students will be given one year membership of CIGRE to have access to 10,000 Technical Report available on e-CIGRE library.		
Note: 18% GST extra for all categories.		

The program is limited to 200 participants, which will be on First cum First serve basis.

INDIAN REPRESENTATIVE IN CIGRE SC D1 ON MATERIALS AND EMERGING TEST TECHNIQUES



Dr. Bishnu Prasad Muni
General Manager
Bharat Heavy Electricals
Limited

TO REGISTER

The perspective participants, desirous of attending the above training may register themselves by sending the following details to CIGRE-India along with necessary facilitation charges:

Title of Training _____; Name: _____;
Designation: _____; Organization: _____;
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**Note: After registration, the participants will be provided the link 1 day prior to the session. Registered participants may please contact for link to join the program at:
Mr. Uttam Rawat, Software Engineer, Mob: 9818981610
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