

PARTIAL DISCHARGE COURSE

May 11-13, 2021

Manchester, UK

Partial discharges (PD) are small electrical sparks that occur as the stator winding insulation deteriorates. By measuring PD, one can plan when to do maintenance or when to rewind a stator.

Seminar Objectives

- to understand the basics of stator winding insulation systems and why they deteriorate
- to understand basic PD theory
- to understand how PD detection devices work
- to interpret the test data collected and relate the data to specific failure mechanisms, to enable you to plan maintenance



Who Should Attend?

The course is designed for engineering and maintenance personnel who either purchase, install, test, maintain and/or repair motors and/or generators. Consultants, manufacturers and repair shop personnel would also benefit from this course. The course is mainly intended for those involved with motors or generators rated 3kV and above.

Instructor: Dr. Howard Sedding

Dr. Howard Sedding graduated with a BSc in electrical and electronic engineering at the University of Strathclyde and then acquired MSc and PhD degrees. Most of Dr. Sedding's career was spent working at the Research Division of Ontario Hydro, later known as Kinectrics. Howard was involved in, or responsible for, numerous projects related to the specification, testing, monitoring and maintenance of solid, liquid and gaseous electrical insulation systems in a wide range of high voltage electrical equipment. He is an active member of numerous technical committees, and has contributed to many IEEE and IEC standards concerned with electrical insulation. Specifically, he is the Chair of the Canadian committee for IEC TC112 (Evaluation and qualification of electrical insulating materials and systems), the International Secretary of IEC TC42 (High voltage and high current test techniques) and is the Canadian representative for Cigre SC A1 (rotating machines). Howard has authored and co-authored more than 150 technical papers. Currently, Howard is employed as an Insulation Engineer at Iris Power

AGENDA

Day 1

8:30 a.m. – 4:30 p.m.

Motor & Generator Stator Windings

- Stator Winding Design
- Coil Manufacturing Process
- Failure Mechanisms

Day 2

8:30 a.m. – 4:30 p.m.

PD Theory

- PD as a Symptom
- Partial Discharge or Corona
- Void Formation
- Electrical Discharges

PD Detection

- On-line and Off-line testing
- PD sensors
- Noise Cancellation

Day 3

8:30 a.m. – noon

Interpreting Test Results

- Data Presentation
- Trend Analysis
- Polarity Predominance
- Load Effect
- Temperature Effect
- Non-classic PD pulses
- Multiple Failure Mechanisms
- PD Characteristics of Failure Mechanisms

Please refer to registration form on page 2

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To register for the seminar please send completed form with credit card information to fax 905-677-8498 or e-mail to khoward@qualitrolcorp.com.

Name: _____
Title _____
Company: _____
Address: _____
City, State _____
Postal/Zip: _____ Phone: _____
E-mail : _____
Special Dietary needs: _____

Please print e-mail address clearly

Payment made via: (check one box)

Master Card

P.O. # _____

Visa

Card # : _____

Expiration Date: _____ CVS # _____

Card Holder Name: _____

Signature: _____

REGISTRATION

Only 15 seats available,
so register now.

Registration includes lunch and breaks daily.
A complete set of notes is also included.

**PRICE DOES NOT INCLUDE HOTEL
ACCOMMODATIONS.**

Confirmation will be issued upon receipt of
payment.

COST
\$1295.00 USD

Send registration to:

Karen Howard

Fax: 905-677-8498

Phone: 905-364-4568

khoward@qualitrolcorp.com

LOCATION/VENUE

DoubleTree by Hilton Hotel

Manchester-Piccadilly

One Piccadilly Place,

1 Auburn Street,

Manchester, M1 3DG

Tel: +44 161 24210000

CANCELLATION POLICY

Cancellation received 30 days prior to seminar date will result in a \$75.00 US processing fee. Withdrawal received up to one week prior to the seminar will be subjected to a charge of \$150.00 US. There will be no refunds a week prior to the seminar. Delegate substitution is permitted.



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