

PARTIAL DISCHARGE COURSE

October 23-25, 2018
Minneapolis, MN

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

Connor Chan has been employed with Iris Power L.P. since 2001 and is currently a Rotating Machines Engineer. Prior to this position, he was Field Service Manager. Connor Chan graduated in electrical engineering from the University of Hong Kong. He is a Member of the Institution of Engineering & Technology (formerly the Institution of Electrical Engineers), the Institution of Engineers Australia and the Institute of Electrical and Electronics Engineer, and is a Chartered Engineer.

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

Day3

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: _____
Postal/Zip: _____
Telephone: _____ Fax: _____
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 35 seats available,
so register now.**

Registration includes breakfast, 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

Crowne Plaza Northstar Hotel
618 Second Avenue South,
Minneapolis, MN 55402

Room Rate:
\$169.00 US
(until September 24, 2018)

To book room please call
1-800-556-7827

CANCELLATION POLICY

Cancellation received prior to September 23, 2018 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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