PARTIAL DISCHARGE SEMINAR

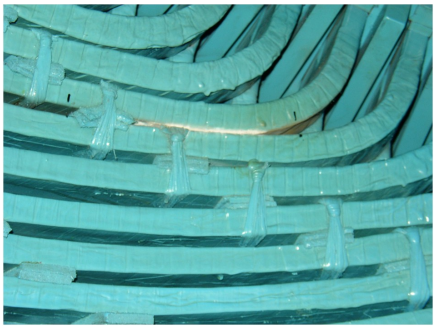
May 28-30,2012
Jakarta, Indonesia

COURSE 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.



INSTRUCTOR:

Greg Stone, Dielectrics Engineer, Greg has over 30 years of experience in the application and testing of large motor and generator windings. Prior to joining Iris in 1990, he worked at Ontario Hydro for 15 years, where he specialized in testing the machine windings of the company's 200 generators, and hundreds of motors in nuclear, fossil and hydro generating plants. He has authored or co-authored approximately 100 technical papers on motor and generator windings and testing, contributed to the writing of the "Handbook to Assess the Insulation Condition of Large Rotating Machines," an EPRI publication, and authored a chapter on electrical windings for the "Handbook of Electrical Machines," which was published by Dekker in 1995. Greg's most recent work is a book titled, "Electrical Insulation for Rotating Machines - Design, Evaluation, Aging, Testing and Repair," which was co-written with Ian Culbert, Al Boulter and Hussein Dhirani. Greg has been an instructor for the American utility association's (EPRI) course on motor monitoring for many years, and more recently, he has added his expertise to the Hydrogenerator Maintenance Course. He is active on many IEEE and IEC working groups developing standards and guides, and is a Fellow of the IEEE.

AGENDA

May 28, 2012
9:00 a.m.– 5:00 p.m.

Motor & Generator Stator Windings

- Stator Winding Design
- Coil Manufacturing Process
- Failure Mechanisms

May 29, 2012
9:00 a.m.– 5:00 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

May 30, 2012
9:00 a.m.– 5:00 p.m.

Interpreting Test Results

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

Seminar fee includes 1 lunch and 2 tea breaks. Hotel accommodation is not included.

Venue

Menara Peninsula Hotel
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