Southern Alberta Section
IAS-PES Chapter

Designing Electrical Systems for On-Site Power Generation

Rich Scroggins – Cummins Power Generation

Co-sponsored by Cummins Power Generation

Diesel and natural gas powered generator sets are used in all kinds of facilities to provide emergency standby power in the event of a grid failure or to serve as the prime source of power when a grid connection is not practical or economical. Reliable operation requires a design that accounts for the on-site generator performance under normal loading, transient and fault conditions. In this seminar we will review some of these key considerations including, but not limited to:

- Proper generator sizing for motor loads accounting for locked rotor kVA
  - in "across the line" motor starting applications.
  - in VFD motor starting applications.
- Generator short circuit characteristics and their effects on arc flash incident energy.
- Grounding (system and/or equipment) and ground fault detection of on-site power generation systems:
  - When to switch the neutral in emergency standby systems
  - Grounding and ground fault detection schemes for paralleled generator sets in both grid connected and islanded applications

Location: Events Center C
(University of Calgary Downtown Campus)
906 - 8th Avenue SW
Calgary, Alberta

Date: Monday, April 4, 2016

Time: 6:30PM to 8:30PM (2 hours) All times are: Canada/Mountain

Agenda:

5:30pm:	Doors open
5:30pm-6:25pm	Networking and Light meal
6:30pm	Presentation

Register at: https://meetings.vtools.ieee.org/m/37499

Advance registration closes March 30.

Speaker:

Rich Scroggins is a Technical Advisor in the Application Engineering group at Cummins Power Generation. Rich has been with Cummins for 18 years in a variety of engineering and product management roles. Rich has led product development and application work with transfer switches, switchgear controls and networking and remote monitoring products and has developed and conducted seminars and sales and service training internationally on several products and is an Active member of IEEE 1547 (Standard for Interconnecting Distributed Resources with Electric Power Systems) working group. Rich received his bachelors degree in electrical engineering from the University of Minnesota and an MBA from the University of St. Thomas.

Please contact Milada Majumdar [milada.majumdar@gmail.com] if you have any problems registering for the seminar, or if you have any questions.