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Tutorial 3

Protection for Rotating Equipment (Generator & Motors) and the Applications of Relevant Chapters of the Buff Book

Presenters: Mr. Chuck Mozina (Consultant to Beckwith)
Mr. Patrick Robinson (Altelec , Calgary)
***Mr.* Jakov Vico (GE Digital Energy- Multilin)**
Dr. Bill Rosehart (University of Calgary)
Dr. Hamid Zareipour (University of Calgary)

Date: May 7th, 2009.
Time: 8:00 AM to 4:30 PM (Lunch Provided)
Location: Calgary Hyatt Regency (Doll Room)

This tutorial will include two segments:

Generator Protection Segment:

- Generator Stator Protection
- Generator Ground fault protection
- Loss of field protection
- Other area of generator protection (inadvert energization, overexcitation, reverse power, abnormal frequency etc.)
- Buff Book observations and application notes (Generator Protection)

Motor Protection Segment:

- Theoretical Aspects of motors in Electrical Engineering (Refresher)
- Practical considerations in motor protection
    - Motor insulation systems , and temperature limits
    - Service factor
    - Thermal Modeling of Motor for protection purposes
    - Motor Starting Considerations
    - Unbalance, RTD applications, short circuit, Ground Fault, differential, mechanical jam under-current, under/over voltage protection
    - Large Induction and synchronous motor protection
    - Low voltage motor protection
- Buff Book observations and application notes (Motor Protection)