



Santa Clara Valley Section IAS/PES Chapter

WEDNESDAY August 17, 2005

SCV Power Engineering & Industry Applications Society

Subject: **Introduction to Arc Flash Safety Issues, Standards and Solutions**

Speakers: **Jim Dayringer, Power Systems Engineer, Square D Company**

Steve Metzger, Regional Sales Manager, Emerson Process Management

Time: Dinner 6:00 PM, Presentation 7:00 PM.

Place: Ramada Inn, 1217 Wildwood, Sunnyvale, CA, (408) 245-5330

RSVP: James Alvers, (925) 730-3105, james.alvers@us.schneider-electric.com

Cost: \$22.00 IEEE members, \$25.00 nonmembers, and \$10.00 students

Introduction to Arc Flash Circuit Breaker Protection

Five to 10 arc flash explosions occur in electrical equipment every day in the United States, according to statistics compiled by CapSchell, Inc., a Chicago-based research and consulting firm that specializes in preventing workplace injuries and deaths. Injuries from arc flash events can be minor injuries to life threatening and possible death.

Dealing with arc flash hazards has become one of the most important issues developing in the wake of the recent edition of the National Electrical Code. Designers, maintenance, facility and safety personnel are becoming aware of the requirements outlined by NEC and NFPA 70E for identifying the hazards of electrical arc flash exposure. This awareness has been raised through OSHA audits, facility insurance underwriters as well as the serious safety concerns.

Employees working on or around energized electrical equipment are required by law to wear appropriate Personal Protective Equipment (PPE). The “arc flash exposure levels” determine the level of protection required. Which is related to:

- The amount fault current that could flow at a particular point on the electrical system.
- Time required for the nearest upstream overcurrent protective device to operate and stop the current flow.

Join us for an introduction Arc Flash safety issues, code requirements and solutions. Steve Metzger as well as Jim Dayringer are actively involved in helping users with arc flash training and analysis throughout Northern CA.