

IEEE Seminar – Application Considerations for the New IEEE 1584 Arc-Flash Model and Trends of Smart Grid Development

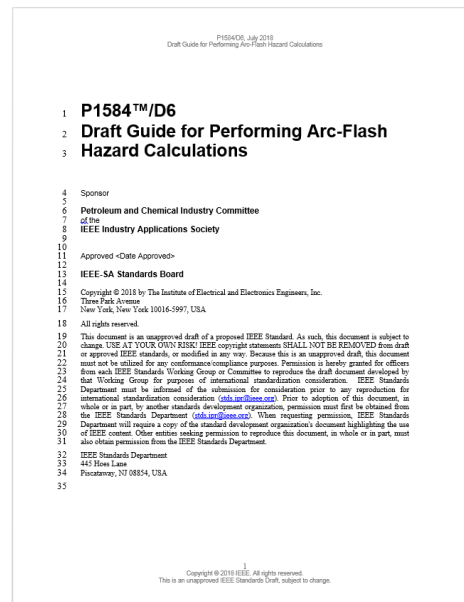
The Metropolitan Los Angeles and Orange County Sections of the Industry Applications Society is sponsoring two half-day seminars **Saturday, August 25, 2018:**

8 AM to Noon – Application Considerations for the New IEEE 1584 Arc-Flash Model
1 to 5 PM – Trends of Smart Grid Development

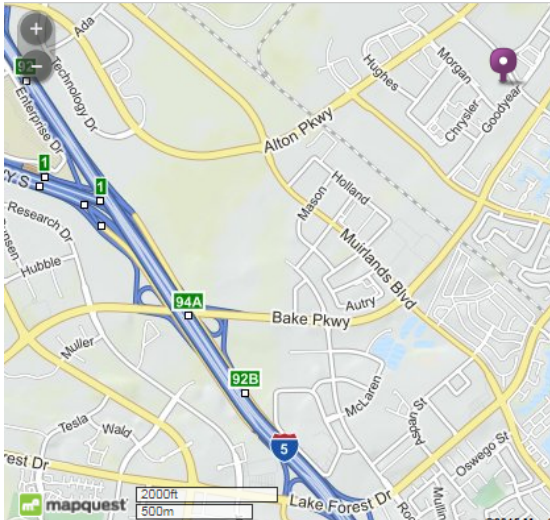
The revision process of IEEE Std. 1584 Guide to Performing Arc-Flash Hazard Calculations is almost complete! The revision includes the new arc-flash model; which is the result of the NFPA and IEEE collaboration effort to improve the accuracy of the incident energy calculations. The new model includes the effects of both horizontal and vertical conductor orientations (VCB, VOA, VCBB, HCB and HOA), plus refined models for arc current variation and enclosure size effects on the incident energy. The presentation will feature first-hand insight into the background on the laboratory testing and model development to help engineers understand how and why the arc current and incident energy results may be different. Furthermore, discussion will take place on what is perhaps the most difficult application consideration of the new model; which is the detection and classification of actual equipment into one of the five electrode configurations. Last some quick pointers on how the new model is to be applied in power system analysis software will be provided.

The seminar will be presented by two individuals intimately familiar with the arc-flash standard revisions taking place; Dr. Wei-Jen Lee, IEEE Fellow and Director of the Energy Systems Research Center at the University of Texas, Arlington, who conducted the new arc-flash testing at different laboratories and who also created the new arc-flash model and Albert Marroquin, IEEE P1584 New Arc-Flash Model Validation Task Group Vice-Chair and Ballot Resolution Committee Co-Chair, who actively participated in the model refinement and validation.

The topics that will be presented include:



Time: Saturday, Aug 25, 2018; Seminar from 8 AM to 5 PM



NEW Location:
ETAP Learning Center
17 Goodyear, Suite 150
Irvine, CA 92618

To register, contact:
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Seminar Cost:	Advanced registration (by August 18th):	At the door:
One Seminar:		
IEEE members:	\$75	\$90
Non-members:	\$85	\$100
Both Seminars:		
IEEE member:	\$100	\$115
Non-member:	\$110	\$130

Make check payable:

- “Los Angeles IEEE Industry Applications Society” or
- “IEEE PES/IAS Orange County”

Continuing Education Units (CEU) are also available. IEEE Processing fee: \$20.00 each person

Presenters:

Dr. Wei-Jen Lee, IEEE Fellow, PE and Professor of Electrical Engineering/Director of the Energy Systems Research Center at the University of Texas, Arlington

Dr. Lee has been the Project Manager of the IEEE/NFPA Arc Flash Phenomena research project since 2008. He is involved in research on utility deregulation, renewable energy, smart grid, microgrid, arc flash and electrical safety, load forecasting, power quality, distribution automation and demand side management, power systems analysis, online real time equipment diagnostic and prognostic system, and microcomputer based instrument for power systems monitoring, measurement, control, and protection. He has served as the primary investigator (PI) or Co-PI of over ninety funded research projects. He has published more than three hundred and fifty journal papers and conference proceedings. He has provided on-site training courses for power engineers in Panama, China, Taiwan, Korea, Saudi Arabia, Thailand, and Singapore. He has refereed numerous technical papers for IEEE, IET, and other professional organizations.

Albert Marroquin, BScEE, PE – V.P., Electrical Safety & Dynamics, Senior Principal Electrical Engineer – ETAP. Albert is a registered professional engineer in California. He is the designer and product manager for ETAP's AC, DC and High Voltage Arc Flash Analysis products. Albert is a working group member of IEEE P1584, IEEE P1458, IEEE P1814 and an active attendee of NFPA 70E seminars and meetings. He is a member of NFPA's electrical branch. Albert has spent the last five years serving as the new IEEE P1584 Arc-Flash Model Validation Task Group Vice-Chair and Ballot Resolution Committee Co-Chair. Albert joined ETAP in January of 2001 as an electrical engineer and has over 18 years of power system analysis and software design. Albert is the electrical safety and dynamic-system engineering division manager. He has expertise in modeling all types of power systems including green energy technologies. He has worked on many arc flash, transient stability & harmonic studies and is responsible for the modeling of all dynamic components required for stability studies in power generation, nuclear, fossil & renewable plants.