

# 2015 EFCOG/DOE Electrical Safety Workshop

## Lawrence Livermore National Laboratory

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### Sunday, July 12<sup>th</sup>

4:00 p.m. – 8:00 p.m. LLNL Badging & Mixer, Courtyard Marriott, 2929 Constitution Dr., Livermore (no-host bar)

### Monday, July 13<sup>th</sup> *B543 Auditorium*

7:00 a.m. Badging for late arrivals, *West Gate (main) Badge Office, Vasco Road*  
8:30 a.m. Informal gathering and greetings, *Auditorium Foyer B543 R1000*  
9:00 a.m. EFCOG Welcome – Heath Garrison, 2015 EFCOG ESG Chair  
9:15 a.m. Livermore Field Office Welcome – Tom Grim, LFO Assistant Manager for ES&H  
9:30 a.m. LLNL Welcome – Bill Goldstein, LLNL Lab Director  
9:45 a.m. Facility details and Workshop Preliminaries – Bill DeHope, LLNL 2015 Workshop Host

#### *10:00 a.m. Morning Break*

10:15 a.m. Overview of Plenary Talks – Richard Waters, 2015 EFCOG ESG Vice-Chair  
10:30 a.m. The LANL Arc Flash Event – Jeff Williams, NNSA; Lloyd Gordon, LANL; & Gary Dreifuerst, LLNL Retired  
11:30 a.m. Electrical Safety from a Union Standpoint – Byron Benton, Training Director, IBEW Local 595 Joint Apprenticeship Training Committee (JATC)

#### *Noon Lunch at local restaurants or cafeterias*

1:30 p.m. IEEE 1584 Update – Jim Phillips, Brainfiller  
2:00 p.m. Arc Flash DC Experimental Status – Steve Cress, Kinectrics & Hugh Hoagland, ArcWear  
2:30 p.m. 2018 70E and the Benefits of Certified PPE – Steve Corrado, UL

#### *3:00 p.m. Afternoon Break*

3:20 p.m. Outlook from DOE – Kevin Carr, NNSA/NA-513  
3:40 p.m. Defense Nuclear Facilities Safety Board Outlook – Peter Foster, DNFSB  
4:00 p.m. Office of Enforcement: Data and Trends – Terry Meisinger, OE  
4:30 p.m. Audit Teams: A Proposal – Mark Scott, LBL  
4:45 p.m. Outlook from DOD – Stan Berry, US Navy  
5:00 p.m. Electrical Incidents since Skip Searfoss' Last Report – Lloyd Gordon, LANL  
5:15 p.m. Day's End/Closing

### Tuesday Morning, July 14<sup>th</sup>

8:00 a.m. Risk Management and 70E – Daniel Roberts, Schneider Electric  
8:30 a.m. Downstream Electrical Safety Effects of Subcontractor Building Constructions – Lloyd Gordon, LANL  
8:55 a.m. Working Group Status from last year: Overview – Lloyd Gordon, WG Chair  
9:15 a.m. DC Systems – Gary Dreifuerst, LLNL Retired  
9:45 a.m. Compensatory Measures for AF Hazards – Greg Christensen, 2014 EFCOG ESG Chair

#### *10:15 a.m. Morning Break*

10:30 a.m. AHJ Program Descriptions and Reciprocity – Jim Watson, LLNL  
11:00 a.m. Hazardous Energy Control – Stephanie Collins, LBL  
11:30 a.m. Introduction and Commissioning of new WG's – Lloyd Gordon, WG Chair

#### *Noon. Lunch at local restaurants or cafeterias*

**Tuesday Afternoon, July 14<sup>th</sup>** (Informal Break at 3:00 p.m.)

- 1:30 p.m. Working Group 1 – DC Systems *B551E Altamont Room 2100*
- 1: 30 p.m. Working Group 2 – Hazardous Energy Control *B543 Good Earth Room 1244*
- 1: 30 p.m. Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors *T5475 Yosemite Room 1003*
- 1: 30 p.m. Working Group 4 – AHJ Program Descriptions, Issues & Reciprocity *T5475 Discovery Room 1145*
- 1: 30 p.m. Working Group 5 – Risk Assessment per 70E-2015 *B543 Grand Canyon Room 1258*
- 5:30 p.m. Day's End/Closing (all Working Groups)

**Wednesday, July 15<sup>th</sup>** (Informal Breaks at 10:00 a.m. and 3:00 p.m.)

- 8:00 a.m. Working Group 1 – DC Systems *B551E Altamont Room 2100*
- 8:00 a.m. Working Group 2 – Hazardous Energy Control *B543 Good Earth Room 1244*
- 8:00 a.m. Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors *T5475 Yosemite Room 1003*
- 8:00 a.m. Working Group 4 – AHJ Program Descriptions, Issues & Reciprocity *T5475 Discovery Room 1145*
- 8:00 a.m. Working Group 5 – Risk Assessment per 70E-2015 *B543 Grand Canyon Room 1258*

*Noon Lunch at offsite restaurants or cafeterias*

- 1:30 p.m. Working Group 1 – DC Systems *B551E Altamont Room 2100*
- 1:30 p.m. Working Group 2 – Hazardous Energy Control *B543 Good Earth Room 1244*
- 1:30 p.m. Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors *T5475 Yosemite Room 1003*
- 1:30 p.m. Working Group 4 – AHJ Program Descriptions, Issues & Reciprocity *T5475 Discovery Room 1145*
- 1:30 p.m. Working Group 5 – Risk Assessment per 70E-2015 *B543 Grand Canyon Room 1258*
- 5:30 p.m. Day's End/Closing (all Working Groups)

**Thursday, July 16<sup>th</sup>** (Informal Break at 10:00 a.m.)

- 8:00 a.m. Working Group 1 – DC Systems *B551E Altamont Room 2100*
- 8:00 a.m. Working Group 2 – Hazardous Energy Control *B543 Good Earth Room 1244*
- 8:00 a.m. Working Group 3 – Electrical Safety, Medium Voltage, & Subcontractors *T5475 Yosemite Room 1003*
- 8:00 a.m. Working Group 4 – AHJ Program Descriptions, Issues & Reciprocity *T5475 Discovery Room 1145*
- 8:00 a.m. Working Group 5 – Risk Assessment per 70E-2015 *B543 Grand Canyon Room 1258*

*11:30 a.m. Lunch at local restaurants or cafeterias*

- 1:00 p.m. Summary Presentation – Working Group 1 *B543 Auditorium*
- 1:30 p.m. Summary Presentation – Working Group 2 *B543 Auditorium*
- 2:00 p.m. Summary Presentation – Working Group 3 *B543 Auditorium*

*2:30 p.m. Mid Afternoon Break*

- 2:45 p.m. Summary Presentation – Working Group 4 *B543 Auditorium*
- 3:15 p.m. Summary Presentation – Working Group 5 *B543 Auditorium*
- 3:45 p.m. Working Group Summary/Conclusion – Lloyd Gordon, WG Chair, LANL
- 4:15 p.m. Conclusion of workshop – Heath Garrison, 2015 EFCOG Chair
- 4:30 p.m. Dismissal

**Friday, July 17<sup>th</sup>**

- 9:30 a.m. NIF Tour – Meet in B543 Foyer
- 2:00 p.m. HEAF Tour – Meet in B543 Foyer