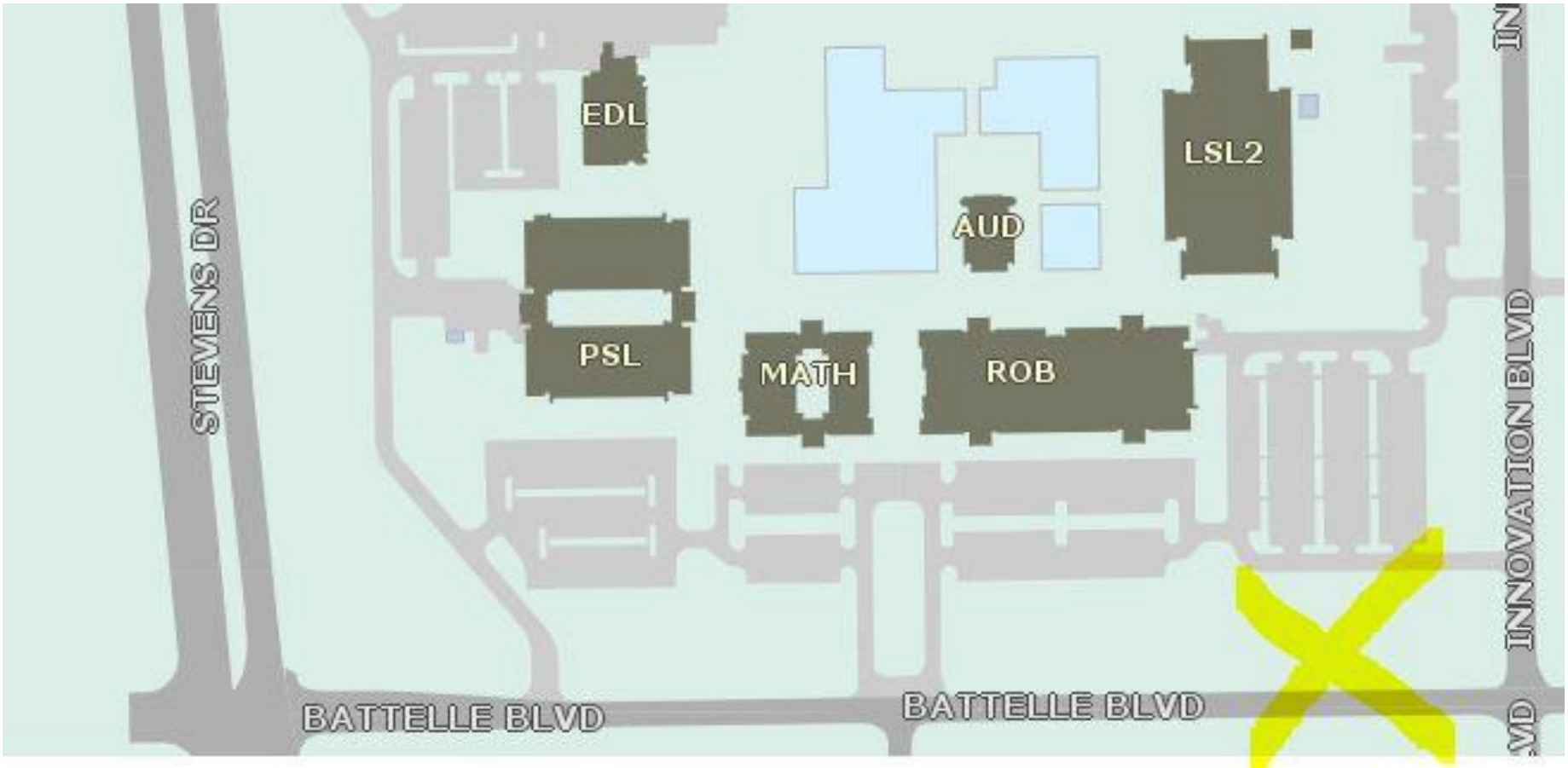


2017 Working Meeting

Facility Overview - PNNL

Facility Overview





Director Welcome

Karen McGinnis

Richland Operations Office

Ashley Morris

DNFSB

James Parhum

DOE Headquarters

Moriah Ferullo

ESTG Chair

Richard Waters



WELCOME

EFCOG-ESTG Summer Workshop

July 24-28th

Continuous Improvement

Through

Collaboration



What is EFCOG ???

- **EFCOG is an organization comprised of a diverse array of companies contracted by the DOE to Maintain and Operate their facilities.**
- **The EFCOG structure contains 5 working groups.**
- **The Safety Working Group consists of 7 sub groups.**
- **The Electrical Safety Task Group (ESTG) is within the Worker Safety & Health subgroup.**

Electrical Safety Task Group



Electrical safety throughout the DOE complex will continuously improve as a result of the efforts and actions taken by the task group.

ESTG - Members

- **The ESTG consists of members representing a variety of sites both large and small and with differing missions.**
- **Our members have a diverse set of skills and expertise derived from a mixture of different backgrounds.**
- **Our members are committed to improving electrical safety at their respective site as well as other sites across the complex.**

ESTG - Members

- **ESTG - Members participate in a monthly conference call and attend bi-annual meetings.**
- **The summer workshop is an opportunity for members to positively contribute to electrical safety through direct interaction and collaboration with other members.**
- **This workshop is our forum to produce products that solve problems faced by members of EFCOG. The end result being continuous improvement of electrical safety.**

New - ESTG - Members

- **Everyone in this room has an interest in electrical safety or you wouldn't be here.**
- **If this is your first ESTG summer workshop don't make it your last. Get involved and make a difference at your site and others.**
- **New members and new ideas are always welcome!**
- **If you choose to get involved at this workshop "STAY INVOLVED". Commitment over time produces results. We need YOU!**

Get Involved Stay Involved

- **Don't think that you have nothing to offer.**
- **I once thought that I didn't have anything to offer. I was "just an electrician" what could I possibly contribute?**
- **I became a contributor to the ESTG in 2007 after attending my first summer workshop right here at Hanford.**
- **I have now been involved for 10 years and have made many friends and contributed to numerous products that help ensure the safety of electrical workers across the complex.**

How do I get involved?

Getting involved is easy...

Staying involved is hard...

If you would like more information on how you can contribute as a EFCOG-ESTG member please speak to any of our current members or contact the ESTG leadership.

Contact information can be found at EFCOG.org

Thank You!

On behalf of the Electrical Safety Task Group I would like to personally thank the people at Hanford for providing our group with facilities in which to continuously improve electrical safety.

**Richard Waters
EFCOG-ESTG - Chairman**



Agenda Overview

Dave Mertz – EFCOG Vice-Chair

Agenda – Monday, July 24th

Monday, July 24th

Time	Topic	Presenter(s)
7:00 am (30 min)	Arrival @ Battelle Auditorium, PNNL	
7:30 am (60 min)	Welcome/Working Meeting Kickoff 1. HAMMER Director (5-10 min) 2. Richland Operations Office (5-10 min) 3. DNFSB (5-10 min) 4. DOE HQ (5-10 min) 5. ESTG Chair (10-15 min) 6. Agenda Overview (5-10 min)	1. Karen McGinnis 2. Ashley Morris 3. James Parhum 4. Moriah Ferullo 5. Richard Waters 6. Dave Mertz
8:30 am (30 min)	Winter Meeting Report	Jennifer Martin
9:00am (15 min)	Break	
9:15 am (90 min)	Priest Rapids Dam Arc Flash Event	Ty Ehrman (GPUD)
10:45 am (45 min)	DOE Training Institute (DTI) Overview	Ashley Morris (RL) Pete Wells (DTI)
11:30 am (60 min)	Lunch	
12:30 pm (60 min)	ESTG Collaborations in the Electrical Industry	Lloyd Gordon (LANL) Heath Garrison (NREL) Tommy Martinez (LANL)
1:30 pm (45 min)	Leveraging Current Events in DOE to Maximize Electrical Safety Program Improvement	Jeff Williams (NNSA) Lloyd Gordon (LANL)
2:15 pm (15 min)	Break	
2:30 pm (30 min)	Naval Safety	Gary Dreifuerst for Stan Berry
3:00 pm (60 min)	Working Groups Review / Overview 1. Hazardous Energy Controls 2. Risk Assessment 3. DC 4. Subcontractor Flow down 5. Electrical Training	Working Group Chairs: 1. Stephanie Collins / Dave Lipinski 2. Greg Christiansen / Jennifer Martin 3. Gary Dreifuerst / Kyle Carr 4. Jim Watson / Dave Inskeep 5. Lloyd Gordon / Andrew Olsen



Agenda – Tuesday, July 25th

Tuesday, July 25th

Time	Topic	Presenter(s)
7:00 am (60 min)	Arrival @ HAMMER Federal Training Facility	
8:00 am (4 hrs)	Working Group Breakouts <ol style="list-style-type: none"> 1. Hazardous Energy Controls 2. Risk Assessment 3. DC 4. Subcontractor Flow down 5. Electrical Training 	Working Group Chairs: <ol style="list-style-type: none"> 1. Stephanie Collins / Dave Lipinski 2. Greg Christiansen / Jennifer Martin 3. Gary Dreifuert / Kyle Carr 4. Jim Watson / Dave Inskeep 5. Lloyd Gordon / Andrew Olsen
11:00 am (60 min)	Lunch	
12:00 pm (4 hrs)	Working Group Breakouts (continued) <ol style="list-style-type: none"> 1. Hazardous Energy Controls 2. Risk Assessment 3. DC 4. Subcontractor Flow down 5. Electrical Training 	Working Group Chairs: <ol style="list-style-type: none"> 1. Stephanie Collins / Dave Lipinski 2. Greg Christiansen / Jennifer Martin 3. Gary Dreifuert / Kyle Carr 4. Jim Watson / Dave Inskeep 5. Lloyd Gordon / Andrew Olsen

Agenda – Wednesday, July 26th

Wednesday, July 26th

Time	Topic	Presenter(s)
7:00 am (60 min)	Arrival @ HAMMER Federal Training Facility	
8:00 am (4 hrs)	Working Group Breakouts (continued) <ol style="list-style-type: none"> 1. Hazardous Energy Controls 2. Risk Assessment 3. DC 4. Subcontractor Flow down 5. Electrical Training 	Working Group Chairs: <ol style="list-style-type: none"> 1. Stephanie Collins / Dave Lipinski 2. Greg Christiansen / Jennifer Martin 3. Gary Dreifuerst / Kyle Carr 4. Jim Watson / Dave Inskeep 5. Lloyd Gordon / Andrew Olsen
11:00 am (60 min)	Lunch	
12:00 pm (4 hrs)	Working Group Breakouts (continued) <ol style="list-style-type: none"> 1. Hazardous Energy Controls 2. Risk Assessment 3. DC 4. Subcontractor Flow down 5. Electrical Training 	Working Group Chairs: <ol style="list-style-type: none"> 1. Stephanie Collins / Dave Lipinski 2. Greg Christiansen / Jennifer Martin 3. Gary Dreifuerst / Kyle Carr 4. Jim Watson / Dave Inskeep 5. Lloyd Gordon / Andrew Olsen

Agenda – Thursday, July 27th

Thursday, July 27th

Time	Topic	Presenter(s)
7:00 am (30 min)	Arrival @ Battelle Auditorium, PNNL	
7:30 am (30 min)	2016 DOE Electrical Safety Review	Heath Garrison (NREL)
8:00 am (60 min)	Fuel Cells / Battery Storage	Vincent Sprenkle (PNNL)
9:00am (15 min)	Break	
9:15 am (90 min)	Listing Requirements of Arc Rated PPE	Stacy Klausing & Jill Kirby for Hugh Hoagland (E-Hazard)
10:45 am (45 min)	NFPA 70E, 2018 Significant Changes	Mark Hilbert (Ports/Paducah)
11:30 am (60 min)	Lunch	
12:30 pm (45 min)	Li Ion Battery Safety	Lloyd Gordon (LANL)
1:15 pm (30 min)	Hazardous Energy Controls Working Group Report	Stephanie Collins (LBNL) Dave Lipinski (Portsmouth)
1:45 pm (30 min)	Risk Assessment Working Group Report	Greg Christiansen (INL) Jennifer Martin (FE&C)
2:15 pm (15 min)	Break	
2:30 pm (30 min)	DC Energy Working Group Report	Gary Dreifuerst (Retired LLNL) Kyle Carr (LANL)
3:00 pm (30 min)	Subcontractor Flow down Working Group Report	Jim Watson (LLNL) Dave Inskeep (INL)
3:30 pm (30 min)	Electrical Training Working Group Report	Lloyd Gordon (LANL) Andrew Olsen (HAMMER)
4:00 pm (5 min)	ESTG Chair's Closing Comments	Richard Waters (INL)

Agenda – Friday, July 28th

Friday, July 28th

Time	Tours	Where
7:30 am	HAMMER Tour – meet in Lobby of HAMMER Administration Building	
8:00 am	Electricity Infrastructure Operation Center Tour – meet at PNNL	
8:45 am	B Reactor Tour – meet at 2000 Logston Blvd, Richland, WA 99354	
9:00 am	LIGO Tour – meet at 127124 N Rt. 10, Richland, WA 99354	

Throughout the weekend!!!



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[EVENT DETAILS](#)