



Open Task Report



Thursday, May 10, 2018

Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-16-06	1/1/2016	12/31/2016

Coordinate with Other EFCOG Working Group

Task Title: Develop Best Practice for "Contact Release Training"

Task Description: Develop best practice for "Contact Release Training" as it relates to NFPA 70E 2015 required training. This best practice will benefit each sites electrical safety program and provide consistant guidance that will promote compliance and worker safety.

There will be a best practice developed and posted to the EFCOG Electrical Safety Group webpage

Deliverable(s): There will be a best practice developed and posted to the EFCOG Electrical Safety Group webpage

Status Date: This task was put on the back burner some time ago in order to focus more immediate issues and was only recently resumed. I have reviewed the product and I expect its release in the very near future.
5/2/2018

History/Comments: 7/19/2016 - This is a new action that is added to the plan for the electrical safety group. Working on reviewing several sites existing training materials. The training will be developed and sent out for review within the next few months

Description of Savings:

DOE Sponsor(s): Pat Worthington

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number **Task Start Date** **Estimated Completion Date**

WSH/ES-16-16 **1/1/2016**

Coordinate with Other EFCOG Working Group

Task Title: Develop Materials for “May, National Electrical Safety Month.

Task Description: Develop materials for “May, National Electrical Safety Month” and distribute to the entire DOE complex for use. Theme this year is “Battery Safety”. Benefits all sites electrical safety programs.

Deliverable(s):

Status Date: was to be used in 2017 but due to a host of LO/TO issues we put this on the back burner in order to use materials developed in support of the increase in LO/TO events. This task sheet is now complete and the developed materials were distributed at the beginning of May
5/3/2018

History/Comments:

Description of Savings:

DOE Sponsor(s):

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number **Task Start Date** **Estimated Completion Date**

WSH/ES-16-18

Coordinate with Other EFCOG Working Group

Task Title: Begin review and editing of the DOE Electrical Safety Handbook.

Task Description: Review and edit the DOE Electrical Safety Handbook to bring the handbook up to date with more current standards. This will be a multiple year effort.

Deliverable(s):

Status Date:

History/Comments:

Description of Savings:

DOE Sponsor(s):

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number **Task Start Date** **Estimated Completion Date**
WSH/ES-16-19

Coordinate with Other EFCOG Working Group

Task Title: Develop Best Practice for “Battery Risk Assessment Flowchart”

Task Description: Develop best practice for “Battery Risk Assessment Flowchart” as it relates to requirements in the NFPA 70E 2015. This best practice will benefit each sites electrical safety programs and provide consistent guidance that will promote compliance and worker safety.

Deliverable(s): There will be a best practice developed and posted to the EFCOG Electrical Safety Group webpage.

Status Date: Expected to be completed this year
5/3/2018

History/Comments:

Description of Savings:

DOE Sponsor(s):

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number **Task Start Date** **Estimated Completion Date**
WSH/ES-16-20

Coordinate with Other EFCOG Working Group

Task Title: Develop Best Practice for “Look-a-Like Equipment Control Methods”

Task Description: Develop best practice for “Look-a-Like Equipment Control Methods” as it relates to requirements in the NFPA 70E 2015. This best practice will benefit each sites electrical safety programs and provide consistent guidance that will promote compliance and worker safety.

Deliverable(s): There will be a best practice developed and posted to the EFCOG Electrical Safety Group webpage.

Status Date:

History/Comments:

Description of Savings:

DOE Sponsor(s):

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-01	7/1/2018	10/1/2018

Coordinate with Other EFCOG Working Group

Task Title: Develop leading indicators to reverse negative LOTO trends

Task Description: Establish a LOTO negative trend focus group at NREL to review LOTO trends across the complex and identify core causes.

Deliverable(s): Develop tools and materials to assist sites in resolving issues related to common causes determined by the focus group.

Status Date:
5/2/2018

History/Comments:

Description of Savings: LO/TO is an important tool in protecting workers from hazardous energy. Negative trends in the performance of LOTO could lead to injuries. Preventing injuries is in itself a major cost saving benefit for everyone involved.

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-02	7/1/2018	3/1/2019

Coordinate with Other EFCOG Working Group

Task Title: 2019 Electrical Safety Month Materials

Task Description: Determine Electrical Safety Month topic

Deliverable(s): Develop materials for distribution across the complex.

Status Date:
5/2/2018

History/Comments:

Description of Savings: Developing materials in support of Electrical Safety Month promotes electrical safety in a focused manner reminding workers of electrical hazards in the workplace. Preventing injuries through shared knowledge is an important piece in attaining the goals and mission of the DOE.

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-03	7/1/2018	1/2/2019

Coordinate with Other EFCOG Working Group

Task Title: Temporary Protective Grounds - Placement, Identification, and Handling

Task Description: Discussion and drafting of a position paper/best practice on the installation and removal of temporary protective grounds, identification/tracking of grounds, and when/where they are required.

Deliverable(s):

Status Date:
5/2/2018

History/Comments:

Description of Savings: The installation, removal, and tracking of temporary grounds when necessary is an important part of establishing an electrically safe work condition. Failure to properly install or remove temporary protective grounding can lead to injuries and or equipment damage.

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-04	7/1/2018	3/1/2019

Coordinate with Other EFCOG Working Group

Task Title: Capacitive stored energy hazard thresholds requiring LOTO

Task Description: Develop a best practice describing hazardous capacitive (stored energy) thresholds that trigger the requirements for LOTO. Ensuring that the stored energy is safely released and the hazardous energy cannot re-accumulate.

Deliverable(s): Best practice - describing hazardous capacitive (stored energy) thresholds that trigger the requirements for LOTO.

Status Date:
5/2/2018

History/Comments:

Description of Savings: The requirements for LOTO on capacitive circuits in R & D applications is not addressed consistently across the DOE complex. Consistency in managing capacitive hazards ensures that all R & D workers are performing work safely and applying LOTO as required.

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-05	7/1/2018	6/1/2019

Coordinate with Other EFCOG Working Group

Task Title: Mult-wire branch circuit (Edison Circuit) hazardous energy control

Task Description: Multi-wire branch circuits create a unique hazard that may not be readily identified during the planning stages of a LOTO.

Deliverable(s): This best practice would inform and guide LOTO planners on the appropriate methods to take in order to manage the hazards of working with multi-wire branch circuits.

Status Date:
5/2/2018

History/Comments:

Description of Savings: Several ORPS reports over the years indicate that multi-wire branch circuits continue to cause concern at many DOE sites. A clear and consistent method of managing the hazards of multi-wire branch circuits is needed to ensure workers are protected from the potential shock hazard unique to multi-wire branch circuits.

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-07	5/1/2018	4/30/2019

Coordinate with Other EFCOG Working Group

Task Title: Electrical Authority Having Jurisdiction (Ahj)

Task Description: This working group will focus on refining the overall ESTG understanding of the Electrical AHJ role in Contractor organizations. Subtasks include:
Define roles, responsibilities, accountabilities and authorities (R2A2) of the Contractor Electrical AHJ.
Define what authorities are specifically delegated by DOE to the Contractor.
Define interrelationship between the Contractor Line Management, Contractor Electrical AHJ, the DOE Site Office in the enforcement and interpretation of applicable electrical codes and standards.
Define implementation of new "Electrical Safety Authority" in Laboratories as described in NFPA 70E-2018 Article 350.

Deliverable(s): Develop revision to AHJ sections in DOE Electrical Safety Handbook. Alternatively, develop a Best Practice for Electrical AHJ implementation by Contractors.

Status Date:
5/2/2018

History/Comments:

Description of Savings:

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-08	7/2/2018	7/1/2019

Coordinate with Other EFCOG Working Group

Task Title: Utility and Facility Interface

Task Description: The 1910.269 working group will work on developing Best Practice(s) for the DOE complex where onsite Utility/Facility Interfaces Occur. These

Deliverable(s): deliverables include but are not limited to:
Identification of Service Points using Service Agreements Risk Assessment Process for Distribution Activities
Qualifications for High Voltage Electricians and Linemen

Status Date:
5/2/2018

History/Comments:

Description of Savings: The 1910.269 Utility/Facility Interface working group will provide consistent implementation of Utility/Facility Interfaces between NFPA 70E/NESC/1910.269 controls. These deliverables will help the DOE Complex Sites avoid the duplication of individual site efforts by having an approved best practice(s) reference for implementation.

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-09	1/1/2018	12/31/2018

Coordinate with Other EFCOG Working Group

Task Title: Develop Best Practice for "DC Arc Flash Calculations"

Task Description: Develop best practice for "DC Arc Flash Calculations" as this relates to stored energy for high energy inductors in an excel spreadsheet. This best practice will benefit each sites electrical safety programs and provide consistent guidance that will promote compliance and worker safety.

Deliverable(s): There will be a best practice developed and posted to the EFCOG Electrical Safety Group webpage.

Status Date:
5/2/2018

History/Comments:

Description of Savings: Update to instructions and spreadsheet with BP194. Will include a new tab for inductor calculations.

DOE Sponsor(s): Mike Hicks

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Working Group Worker Safety and Health

Task Group Electrical Safety

Task Sheet Number	Task Start Date	Estimated Completion Date
WSH/ES-18-10	7/23/2018	7/28/2018

Coordinate with Other EFCOG Working Group

Task Title: Electrical Safety Workshop

Task Description: The workshop is used to work on all open tasks and deliverables that were determined at the spring meeting.

Deliverable(s):

Status Date:

History/Comments:

Description of Savings: The summer workshop allows members to meet face to face to work on tasks in a small group setting rather than try to accomplish tasks through phone calls and e-mails. The meeting is essential to completing drafts and finalizing assigned tasks so that future phone calls and emails can be more productive.

DOE Sponsor(s): Mike Hicks

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