

**Arc Flash Calculator Peer Review**  
**Industry Connections Activity Initiation Document (ICAID)**  
**Version: 1.0, 26 August 2019**

IC19-008-01 Approved by the IEEE-SASB 5 September 2019

### **Instructions**

- Instructions on how to fill out this form are shown in red. It is recommended to leave the instructions in the final document and simply add the requested information where indicated.
- **Shaded Text** indicates a placeholder that should be replaced with information specific to this ICAID, and the shading removed.
- Completed forms, in Word format, or any questions should be sent to the IEEE Standards Association (IEEE-SA) Industry Connections Committee (ICCom) Administrator at the following address: [industryconnections@ieee.org](mailto:industryconnections@ieee.org).
- The version number above, along with the date, may be used by the submitter to distinguish successive updates of this document. A separate, unique Industry Connections (IC) Activity Number will be assigned when the document is submitted to the ICCom Administrator.

### **1. Contact**

Provide the name and contact information of the primary contact person for this IC activity. Affiliation is any entity that provides the person financial or other substantive support, for which the person may feel an obligation. If necessary, a second/alternate contact person's information may also be provided.

**Name:** Daleep Mohla

**Email Address:** [d.c.mohla@ieee.org](mailto:d.c.mohla@ieee.org)

**Employer:** DCM Consulting

**Affiliation:** DCM Consulting

IEEE collects personal data on this form, which is made publicly available, to allow communication by materially interested parties and with Sponsors and Activity officers who are responsible for IEEE work items.

### **2. Participation and Voting Model**

Specify whether this activity will be entity-based (participants are entities, which may have multiple representatives, one-entity-one-vote), or individual-based (participants represent themselves, one-person-one-vote).

Individual-Based.

### **3. Purpose**

#### **3.1. Motivation and Goal**

Briefly explain the context and motivation for starting this IC activity, and the overall purpose or goal to be accomplished.

IEEE-SA establishes a volunteer peer review team to assess the complimentary arc flash calculator. The volunteer team includes members of the 1584-2018 comment resolution group.

The review will focus on the accuracy of the calculator, its instructions for use and related material. The Peer Review team is singularly focused on assessing the spreadsheet calculator and does not have any jurisdiction related to the IEEE 1584 - 2018 standard.

The plan is to locate the resulting calculator on the IEEE Dataport where it will be publically available.

#### **3.2. Related Work**

Provide a brief comparison of this activity to existing, related efforts or standards of which you are aware (industry associations, consortia, standardization activities, etc.).

A prior Excel-based arc flash calculator was developed in conjunction with the model presented in IEEE 1584-2002.

IEEE 1584-2018 contains an annex which provides sample incident energy calculations.

#### **3.3. Previously Published Material**

Provide a list of any known previously published material intended for inclusion in the proposed deliverables of this activity.

N/A.

#### **3.4. Potential Markets Served**

Indicate the main beneficiaries of this work, and what the potential impact might be.

This work will serve and benefit designers and facility operators when determining the incident energy to which employees could be exposed during their work on or near electrical equipment.

#### **3.5 How will the activity benefit the IEEE?**

This activity will demonstrate IEEE's commitment to the incident energy field. It will demonstrate IEEE's goal of benefitting humanity by providing, a publically available, tool which can be used to help determine the potential of arc flash hazards.

#### **4. Estimated Timeframe**

Indicate approximately how long you expect this activity to operate to achieve its proposed results (e.g., time to completion of all deliverables).

**Expected Completion Date:** 06/2020

IC activities are chartered for two years at a time. Activities are eligible for extension upon request and review by ICCom and the IEEE-SA Standards Board. Should an extension be required, please notify the ICCom Administrator prior to the two-year mark.

#### **5. Proposed Deliverables**

Outline the anticipated deliverables and output from this IC activity, such as documents (e.g., white papers, reports), proposals for standards, conferences and workshops, databases, computer code, etc., and indicate the expected timeframe for each.

The deliverable focuses on the technical and end user review of the Excel-based arc flash calculator, and if necessary, provides an updated version of the arc flash calculator which will be posted on the IEEE Dataport site.

#### **6. Funding Requirements**

Outline any contracted services or other expenses that are currently anticipated, beyond the basic support services provided to all IC activities. Indicate how those funds are expected to be obtained (e.g., through participant fees, sponsorships, government or other grants, etc.). Activities needing substantial funding may require additional reviews and approvals beyond ICCom.

IEEE-SA staff will provide standard support as made available to all IEEE-SA IC Activities. Activity members will provide any needed support for hosted meetings and other expenses that exceed basic IC support.

Participants may be charged a meeting fee if the group decides to meet face-to-face.

#### **7. Management and Procedures**

##### **7.1. IEEE Sponsoring Committee**

Indicate whether an IEEE sponsoring committee of some form (e.g., an IEEE Standards Sponsor) has agreed to oversee this activity and its procedures.

**Has an IEEE sponsoring committee agreed to oversee this activity?:** No

If yes, indicate the sponsoring committee's name and its chair's contact information.

**Sponsoring Committee Name:**

**Chair's Name:**

**Chair's Email Address:**

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## **7.2. Activity Management**

If no IEEE sponsoring committee has been identified in 7.1 above, indicate how this activity will manage itself on a day-to-day basis (e.g., executive committee, officers, etc).

This group will be governed by an executive committee as defined in the Activity's Policies and Procedures. The first chair will be Daleep Mohla.

## **7.3. Procedures**

Indicate what documented procedures will be used to guide the operations of this activity; either (a) modified baseline *Industry Connections Activity Policies and Procedures*, (b) Sponsor policies and procedures accepted by the IEEE-SA Standards Board, or (c) Working Group policies and procedures accepted by the Working Group's Sponsor. If option (a) is chosen, then ICom review and approval of the P&P is required. If option (b) or (c) is chosen, then ICom approval of the use of the P&P is required.

A modified baseline Industry Connections Activities Policies and Procedures will be used.

## **8. Participants**

### **8.1. Stakeholder Communities**

Indicate the stakeholder communities (the types of companies or other entities, or the different groups of individuals) that are expected to be interested in this IC activity, and will be invited to participate.

Stakeholders include:

- Operators of facilities who need to provide better protection from the arc-flash hazard for their employees and contractors.
- Consultants who perform arc-flash hazard calculation studies will be able to provide more accurate results to their clients.
- IAS/PCIC members

To ensure a timely and focused peer review of the calculator, membership in this Activity will include members of the IEEE 1584-2018 comment resolution group. Guests may be invited to participate in Activity meetings per the Activity Policies and Procedures.

### **8.2. Expected Number of Participants**

Indicate the approximate number of entities (if entity-based) or individuals (if individual-based) expected to be actively involved in this activity.

9 individuals

### 8.3. Initial Participants

Provide a number of the entities or individuals that will be participating from the outset. It is recommended there be at least three initial participants for an entity-based activity, or five initial participants (each with a different affiliation) for an individual-based activity.

Use the following table for an entity-based activity:

<b>Entity</b>	<b>Primary Contact</b>	<b>Additional Representatives</b>
Entity Name	Contact Name	Name

Use the following table for an individual-based activity:

<b>Individual</b>	<b>Employer</b>	<b>Affiliation</b>
Daleep Mohla	DCM Consulting	DCM Consulting
Wei-Jen Lee	UTA	UTA
Crow, Daryld Ray	DRC Consulting	DRC Consulting
Jones, Kenneth	Project Integration, Inc.	Project Integration, Inc.
Lang, Mike	Mersen	Mersen
Marroquin, Albert	ETAP	ETAP
Parsons, Anthony	Schneider Electric	Schneider Electric
Phillips, Jim	Brainfiller.com	Brainfiller.com
Torres, Raymund	Andeavor Corporation	Andeavor Corporation