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IEEE Guide for the Specification of Scope and Deliverable Requirements for an Arc-Flash Hazard Calculation Study in Accordance with IEEE Std 1584™

IEEE Industry Applications Society

Sponsored by the
Petroleum and Chemical Industry Committee

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Abstract: Guidance for the specification and performance of an arc-flash hazard calculation study, in accordance with the process defined in IEEE Std 1584™, is provided in this document. It outlines the minimum recommended requirements to enable the owner or its representative to specify an arc-flash hazard study, including scope of work and associated deliverables.

Keywords: arc fault currents, arc-flash boundary, arc-flash hazard, arc-flash hazard analysis, arc-flash hazard marking, arc in enclosures, arc in open air, bolted fault currents, electrical hazard, IEEE 1584.1™, incident energy, protective device coordination study, short-circuit study, working distances

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Introduction

This introduction is not part of IEEE Std 1584.1-2013, IEEE Guide for the Specification of Scope and Deliverable Requirements for an Arc-Flash Hazard Calculation Study in Accordance with IEEE Std 1584™.

This guide has been developed by the Arc-Flash Hazard Calculations Working Group to support application of IEEE Std 1584™.

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IEEE Guide for the Specification of Scope and Deliverable Requirements for an Arc-Flash Hazard Calculation Study in Accordance with IEEE Std 1584™

1. Overview

1.1 Scope

This document provides guidance for the specification and performance of an arc-flash hazard calculation study, in accordance with the process defined in IEEE Std 1584™.[1] It outlines the minimum recommended requirements to enable the owner or its representative to specify an arc-flash study, including scope of work and associated deliverables.

1.2 Purpose

This document defines the recommended minimum guidelines for performing a detailed arc-flash hazard calculation study (arc-flash study) based on IEEE Std 1584™. Use of this document should enable persons such as facility owners, contractors, equipment manufacturers, operations, safety, and electrical personnel as well as those responsible for the specification and/or the performance of the study to understand the

[1] Information on references can be found in Clause 2.