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IEEE 1547

Interconnection and Interoperability of Distributed Energy Resources (DERs) with Associated Electric Power Systems (EPSs) Interfaces

IEEE 1547 Commissioning Conformity Assessment Steering Committee (CASC)

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Foreword

The following Conformity Assessment document, and subsequent Attachment, was created by the IEEE 1547 Commissioning[1] Conformity Assessment Steering Committee (CASC). This document is a tool to assess conformance of a Distributed Energy Resource (DER) Interconnection during the commissioning phase of a DER Interconnection to IEEE 1547 as may be specified in the governing Interconnection Agreement executed between the Area Electric Power System (EPS) Operator and DER Owner. Commissioning agents and DER owners that participate in The Institute of Electrical and Electronics Engineers Conformity Assessment Program (ICAP) 1547 Certification Program must comply with this conformity assessment document and requirements in this document. Conformance with this document is assessed as part of the ICAP certification program.

This document is neither an Interconnection Agreement nor a Design Specification. In its current state it is a suggested process to capture all site-specific details of the DER that apply to the assessment of conformance to IEEE Std 1547, and shall be used in conjunction with IEEE Std 1547. Note, this document is not to be used in lieu of any of the standards (IEEE Std 1547, IEEE Std 1547.1, UL 1741, etc.) to assess the full conformance of the DER or its interconnection to the Area EPS.

This document is laid out in accordance with the interconnection installation evaluation and commissioning tests of IEEE Std 1547. Upon execution of an Interconnection Agreement, this document can then begin to be leveraged.[2] Within this document are placeholders for an IEEE approved interconnection commissioning agent to input the site-specific details of the DER Interconnection under evaluation. Inputs would include, but are not limited to, Interconnection Agreement requirements; DER expected load and capacity; as well as test methods for evaluating DER operation applicable to the IEEE 1547 standard. This document with all applicable inputs filled in can then be considered a site-specific interconnection commissioning plan.

The commissioning plan will specify all procedures and necessary data to be captured during the interconnection commissioning process. This includes, but is not limited to, a documentation review and verification of the one-line diagram, interconnection requirements, intended equipment and certifications as well as an on-site inspection of installed equipment and commissioning tests as outlined

[1] Commissioning is a process that includes the review and verification that the design and installation of equipment comprising the interconnection system meets the objective of its intended use, AREA EPS requirements, IEEE Std 1547, as well as other applicable standards as determined through evaluations, inspections, and performance/conformance testing.

[2] Though the executed Interconnection Agreement is the overriding starting point for the development of a site-specific commissioning plan, this document can provide a suitable, generic framework for commissioning. It should be used in conjunction with the appropriate version of IEEE Std 1547 as designated by the operator of the EPS to which the DER is interconnected.

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