



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NATIONAL ELECTRIC ENERGY TESTING RESEARCH & APPLICATION CENTER

Nicholas J. Conrad Laboratory

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ELECTRICAL

Valid to: November 30, 2022

Certificate Number: 3349.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests on reclosers, fault interrupters, switches, fuses and switchgear:

**Test Type/Test Parameters <sup>1</sup>:**

**Test Method(s):**

Line Charging

Up to 52 kV

1 to 10 Amps

IEC 62271-111:2019, Sub-clause 7.101;  
IEEE Std. C37.60-2018, Sub-clause 7.101;  
IEC 62271-100:2017, Sub clause 6.111;  
IEEE Std. 1247-2005, Sub-clause 8.3.2.4

Cable Charging

Up to 52 kV

1 to 40 Amps

IEC 62271-111:2019, Sub-clause 7.101;  
IEEE Std. C37.60-2018, Sub-clause 7.101;  
IEEE Std. C37.74-2014, Sub-clause 6.7.5.6;  
IEC 62271-100:2017, Sub clause 6.111;  
IEEE Std. 1247-2005, Sub-clause 8.3.2.3

Interrupting

Up to 52 kV

Up to 40 kA

IEC 62271-111:2019, Sub-clause 7.103;  
IEEE Std. C37.60-2018, Sub-clause 7.103;  
IEC 62271-100:2017, Sub clause 6.108

Fault-making

Up to 52 kV

Up to 63 kA

IEC 62271-111:2019, Sub-clause 7.102;  
IEEE Std. C37.60-2018, Sub-clause 7.102;  
IEEE Std. C37.74-2014, Sub-clause 6.7.4.6;  
IEEE Std. 1247-2005, Sub-clause 8.5

Short Time and Peak Withstand

Up to 63 kA

IEC 62271-1:2017, Sub-clause 7.6;  
IEC 62271-102:2018, Sub-clause 7.6;  
IEC 62271-103:2011, Sub-clause 6.6;  
IEC 62271-111:2019, Sub-clause 7.6;  
IEEE Std. C37.60-2018, Sub-clause 7.6;  
IEC 62271-200: 2011, Sub-clause 6.6;  
IEC 62271-201: 2014, Sub-clause 6.6;

**Test Type/Test Parameters <sup>1</sup>:****Test Method(s):**

Short Time and Peak Withstand (*cont.*)  
Up to 63 kA

IEEE Std. C37.74-2014, Sub-clause 6.7.4.3;  
IEEE Std. C37.74-2014, Sub-clause 6.7.4.5;  
IEC 62271-100:2017, Sub clause 6.6;  
IEEE Std. 1247-2005, Sub-clause 8.4.2;  
IEEE Std. 1247-2005, Sub-clause 8.4.3

Load and Loop Switching  
(Making and Breaking)  
Up to 52 kV  
Up to 2 kA

IEC 62271-103:2011, Sub-clause 6.101;  
IEC 62271-201:2014, Sub-clause 6.101;  
IEEE Std. C37.74-2014, Sub-clause 6.7.5.4;  
IEEE Std. C37.74-2014, Sub-clause 6.7.5.5;  
IEC 62271-100:2017, Sub clauses 6.102 to 6.106;  
IEEE Std. 1247-2005, Sub-clause 8.3.2.1;  
IEEE Std. 1247-2005, Sub-clause 8.3.2.2

Breaking  
Up to 40 kA

IEC 60282-2:2008, Sub-clause 8.6

Critical Current  
Up to 40 kA

IEC 62271-111:2019, Sub-clause 7.104;  
IEEE Std. C37.60-2018, Sub-clause 7.104

<sup>1</sup> This laboratory also uses customer supplied specifications and/or methods directly related to the testing technologies and parameters listed above.



## Accredited Laboratory

A2LA has accredited

### NATIONAL ELECTRIC ENERGY TESTING RESEARCH & APPLICATION CENTER

*Chicago, IL*

for technical competence in the field of

### Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 30<sup>th</sup> day of November 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 3349.01  
Valid to November 30, 2022

*For the types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*