TO: Technical Committee on Biosafety Cabinetry  
Dr. Jerome Nriagu, Dr. Robert Powitz  

FROM: Michael Halko, Chair of the Technical Committee  

DATE: September 21, 2020  

SUBJECT: Proposed revision to NSF/ANSI 49 – Biosafety Cabinetry: Design, Construction, Performance and Field Certification (49i159r1)  

Revision 1 of NSF/ANSI 49, issue 159 is being forwarded to the Joint Committee for consideration. Please review the proposal and submit your ballot by October 12, 2020 via the NSF Online Workspace <www.standards.nsf.org>.  

When adding comments, please identify the section number/name for your comment and add all comments under one comment number where possible. If you need additional space, please upload a word or pdf version of your comments online via the browse function.  

Purpose  
The purpose of this ballot is to affirm revised language in Standard 49 section 6.14 regarding electrical safety.  

Background  
In 2010, section 6.14 of NSF/ANSI 49 was revised to be more inclusive of markets outside North America. The issue proponent contends that while the intent of the change was indeed a positive move, the current language still limits global manufacturers in certifying their cabinets to Standard 49. This revision 1 ballot reflects the update suggested by the issue proponent and is offered here for your consideration.  

If you have any questions about the technical content of the ballot, you may contact me in care of:  

Michael Halko  
Chair, Technical Committee on Biosafety Cabinetry  
c/o Allan Rose  
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6  Performance

6.1  General

For qualification by the testing organization, BSCs shall meet the performance requirements listed in Sections 6.2 through 6.15, when tested in accordance with Annex N-1. All removable components within the cabinet that are offered as optional equipment by the manufacturer shall be in place during testing except during nominal set point downflow velocity determination.

6.14  Electrical safety

The cabinet shall be tested by a Nationally Recognized Testing Laboratory (NRTL) for compliance to the requirements of the current edition of any national standard that is based on IEC 61010-1. Compliance is demonstrated by NRTL certification, (requires at least annual NRTL audits to maintain cabinet design certification) and cabinet listing, i.e., UL, CSA or IECEE CB Scheme certificate.

**Rationale:** language in this section requires an electrical certification by a Nationally Recognized Testing Laboratory (NRTL). The NRTL program is North American based which may hinder international electrical testing laboratories that may be equal to or better than those in North America.