TO: Joint Committee on Biosafety Cabinetry

FROM: Robert W. Powitz, Chairperson of the Joint Committee

DATE: August 23, 2023

SUBJECT: Proposed revision to NSF/ANSI 49 – *Biosafety Cabinetry: Design, Construction, Performance and Field Certification* (49i182r1)

Revision 2 of NSF/ANSI 49 issue 182 is being forwarded to the Joint Committee for balloting. Please review the changes proposed to this standard and **submit your ballot by September 13, 2023** 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 new language related to the requirements canopy connection acceptance criteria in Normative Annex 1 of Standard 49.

Background

Issue paper **BSC-2023-08 – Canopy Connection Acceptance Criterion** highlighted inconsistent language in N-1, specifically that it does not reflect the requirements in section 5 of Standard 49.

This issue was presented and discussed during the 2023 JC Face-to-Face meeting, during which the JC ultimately voted to send the IP proposed language directly to approval ballot. Revision 1 ballot resulted in a vote of **15 : 2 : 0 (Affirmative : Negative : Abstain)** with 2 comments. The issue proponent agreed with the negative commenters suggested changes and the revision 2 ballot is now presented here for your consideration.

Public Health Impact

The proposed changes have no negative impact on public health.

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

Robert W. Powitz, PhD, MPH, RS, DLAAS
Chairperson, Joint Committee
Allan Rose
c/o Joint Committee Secretariat
NSF
Phone: (734) 827-3817
E-mail: arose@nsf.org

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale statements are in *red italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI International Standard for Biosafety Cabinetry —

Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

•

Normative Annex 1
(formerly Annex A)

Performance tests

•

N-1.14.3 Acceptance

N-1.14.4 The canopy alarm shall activate within 15 s of loss of capture of the visible medium.

N-1.14.5 Inflow velocity shall not be reduced ~~by more than 10 ft/min (0.051 m/s)~~ to less than the lowest value verified by the NSF/ANSI 49 biological challenge testing after turning the facility exhaust off.

***Rationale**: revised language to eliminate inconsistency between N-1 and Section 5.4 of Standard 49.*