Draft 1 of NSF/ANSI 49, issue 76 is being forwarded to the Joint Committee on Biosafety Cabinetry for consideration. Please review the changes proposed to this standard and submit your ballot by October 3, 2014 via the NSF Online Workspace (http://standards.nsf.org).

When adding comments, please identify the section number/name for your comment and add all comments under one comment number whenever 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 vote and comment on the proposed changes to sections referencing language regarding audible and visual alarms.

**Background**
During the 2015 Face-to-Face meeting for the Joint Committee on Biosafety Cabinetry, it was discussed than in Annex F 7.3.2.1 and in section 5.25.3 of Standard 49 the language states a very specific use of the value “20%”. With short discussion, the Joint Committee agreed it would be more accurate to state “20% or less” in these sections. The Joint Committee voted unanimously to send this revised language to ballot.

**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:

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5 Design and construction

5.25 Alarms

5.25.1 Sliding sash alarm

Sliding sash enclosures shall include an audible and visual alarm, activated when the sash is raised above the manufacturer’s specified opening height.

5.25.2 Internal cabinet supply/exhaust fan interlock alarm

When a cabinet contains both an internal downflow and exhaust fan, they shall be interlocked so that the downflow fan shuts off whenever the exhaust fan fails. An audible and visual alarm shall signal the failure. If the downflow fan fails, the exhaust fan shall continue to operate, and an audible and visual alarm shall signal the failure.

5.25.3 Type B exhaust alarm

Type B cabinets shall be exhausted by a remote fan. Once the cabinet is set or certified in its acceptable airflow range, audible and visual alarms shall be required to indicate a 20% or less loss of exhaust volume within 15 s. The internal cabinet fan(s) shall be interlocked to shut off at the same time the alarms are activated.
F.7 Site installation assessment tests

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F.7.3.2.1 Exhaust alarm system – Type B1 or B2

Supply fan interlock on B cabinets:

a) Shall be tested at time of alarm verification.

b) Reduce exhaust volume 20% or less once the cabinet is set or certified in its acceptable airflow range, and verify that audible and visual alarms indicate a loss of exhaust volume within 15 s. The internal cabinet fan(s) shall be interlocked to shut off at the same time the alarms are activated.

NOTE – For direct connected Type B1 or B2 BSCs, measure the static pressure in the duct-work between the cabinet and duct-mounted balancing dampers.