Revision 2 of NSF/ANSI 350, issue 55 is being forwarded to the Joint Committee for consideration. Please review the proposal and submit your ballot by July 28, 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 proposed revision will clarify language around maintenance in NSF/ANSI 350.

**Background**

Large reuse systems tested, for example systems used in an apartment building would under normal use conditions have staff available to perform routine maintenance during operation. This could be daily, weekly, or less frequently. Requiring these systems to change their processes in order to be able operate autonomously for 6 months does not make sense.

Language should be added to Normative Annex 1 to address maintenance during testing. This issue paper was presented at the 2019 WWT Joint Committee meeting, where it was motioned to JC approval ballot. During the discussion of the motion, it was decided that a definition for the term “maintenance” was necessary, and the motion was withdrawn. The Food Equipment and DWTU standards were checked for a possible definition, but neither suite of standards contained a definition of maintenance. The WWT Task Group on NSF/ANSI 350 met on 5-7-20 and drafted the definition which has been added to the proposed language. An r1 version of this language was sent to the Joint Committee for approval and received comments largely regarding who performs the maintenance. The attached r2 language was drafted in response to those comments and is presented here for consideration.

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

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3 Definitions

3.X maintenance: Routine activities specified by the manufacturer in O&M manuals on a regular schedule that allow the treatment system to perform as intended.

Examples of maintenance activities include but are not limited to:

- cleaning filters,
- replacing media,
- cleaning screens,
- rebooting operating system following power loss,
- cleaning UV light tubes or;
- filling chemical reservoirs.

Maintenance is carried out by manufacturer trained-personnel, which may include treatment system owners. Maintenance is to be distinguished from repairs, which are not routine and happen only when a component fails.
Normative Annex 1
(formerly Annex A)

Key elements for a field evaluation of a commercial (C) onsite treatment system

N-1.1 General description

A detailed procedure for field evaluation, consistent with the testing and performance evaluation described above in Section 8, Performance Testing and Evaluation, shall be developed for each field evaluation. The components shall include the following:

— facility description;
— wastewater source description;
— daily volume of treated reuse water production;
— test duration, minimum of 6 mo;
— sample collection:
  — sample frequency, as per Section 8.4; and
  — specific analyses, influent and effluent, as per Section 8.5.
— performance criteria, as per Section 8.6; and
— final report.

When system maintenance is a normal part of operation, the manufacturer may specify maintenance to be performed at prescribed intervals during testing.

N-1.5 Reporting

At a minimum, reports shall include:

— description of onsite commercial treatment system location(s);
— specifications for the tested system;
— description of typical installation;
— list of key participants;
— complete description of sampling and analytical methods;
— all testing results; and
— rationale for exclusion of data or removal of a system from statistical analysis.
— A list of all maintenance events that includes a description and date for each event.