

**Task Group on NSF/ANSI 41
P 157 Straw Ballot
September 7, 2021**

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Purpose

This ballot will affirm revisions to P157 – Incinerating Toilet Systems – Health and Sanitation.

Background

Some incinerating toilet systems are installed remote to the bathroom. For these systems, if there is an electrical, mechanical, or programming failure, the owner or user may not get notified until after a sewage flood in their home. A failure sensing and signaling section should be added to this protocol, similar to section 5.8 of NSF /ANSI 40 standard. However, alarm visual and audible signals do not need to be tested, provided the protocol requires they are present in each bathroom with a connection to the incinerating toilet system. Bathrooms are small, interior rooms, with low enough ambient light levels, it is not appropriate to require the same level of alarm intensity required for outdoor alarms under the other wastewater standards.

In addition, considering the systems using diesel, gas or propane burners may contain electrical components such as a control panel, NFPA 70 should be specified, similar to all wastewater NSF/ANSI standards.

The **grey highlighted** portions of the language are proposed additions to the language of the Protocol.
The ~~strikeout~~ portions of the language are proposed deletions to the language of the Protocol.

An **affirmative (yes) vote** on this ballot means you agree with the revised language as submitted.

A **negative (no) vote** on this ballot means you disagree with the revised language as submitted. A negative vote must include an explanation of why you disagree with the revised draft.

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[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 *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF P157

Incinerating Toilet Systems – Health and Sanitation.

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2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this Protocol. At the time of publication, the indicated editions were valid. All of the documents are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

APHA, *Standard Methods for the Examination of Water and Wastewater*, 19th edition¹

UL 791, *Standard for Residential Incinerators*²

CSA B140.0-03, *Oil Burning Equipment*³

CSA/CGA 5.2, *Gas-Fired Waterless Toilets*³

NFPA 70, *National Electrical Code (NEC)*, 2020⁴

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5 Design and construction

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5.5 Failure sensing and signaling equipment

Incinerating toilet systems shall possess a mechanism or process capable of detecting failures of electrical and mechanical components critical to the treatment processes and delivering a visible and audible signal to notify the owner or user of the failure. The visual and auditory signals shall continue to be functional in the event of an electrical, mechanical, or hydraulic malfunction of the system. Visual and audible alarms

¹ American Public Health Association. 800 I Street, NW, Washington, DC 20001. <www.apha.org>

² UL LLC. 33 Pfingsten Road, Northbrook, IL 60062. <www.ul.com>

³ CSA Group. 178 Rexdale Boulevard, Toronto, ON M9W 1R3, Canada. www.csa.ca

⁴ National Fire Protection Association. 1 Batterymarch Park, Quincy, MA 02169-7471. <www.nfpa.org>

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shall be present in each bathroom with a connection to the incinerating toilet system. The audible alarm shall be discernable by a person with normal hearing, inside the bathroom. The visual portion of the alarm shall be distinct from any normal displays located inside the bathroom.

5.6 Electrical Components

Electrical components shall be protected by safety devices, such as circuit breakers and fuses. NFPA 70⁴ shall be followed for all electrical components, electrical connections, system installation, and system operation.