
P2520.2.2

Submitter Email: t.nagle@ieee.org
Type of Project: New IEEE Standard
Project Request Type: Initiation / New
PAR Request Date: 29 Jul 2020
PAR Approval Date: 24 Sep 2020
PAR Expiration Date: 31 Dec 2024
PAR Status: Active

1.1 Project Number: P2520.2.2
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Standard for Landfill Odor Monitoring Devices and Systems

3.1 Working Group: Landfill odour monitoring devices and systems(SEN/SC/TMODS/LO/2520.2.2)

3.1.1 Contact Information for Working Group Chair:

Name: Susan Schiffman

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3.1.2 Contact Information for Working Group Vice Chair:

None

3.2 Society and Committee: IEEE Sensors Council/Standards Committee(SEN/SC)

3.2.1 Contact Information for Standards Committee Chair:

Name: Gerard Hayes

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3.2.2 Contact Information for Standards Committee Vice Chair:

None

3.2.3 Contact Information for Standards Representative:

None

3.3 Co-Stds Committee(s):

3.3.1 IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee (IES/IES)

Contact Information for Standards Representative:

Name: Victor Huang

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:
Jan 2022

4.3 Projected Completion Date for Submittal to RevCom: Jan 2023

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2 Scope of proposed standard: This standard defines testing methods and conformance processes to enable odor analysis devices and systems for landfill applications to achieve reliable and reproducible performance that matches the odor intensity and quality perceptions of human observers.

5.3 Is the completion of this standard contingent upon the completion of another standard? Yes

Explanation: This standard will build upon the requirements of Standard 2520.1 for baseline performance for odor analysis devices and systems.

5.4 Purpose: This standard establishes a set of performance measurement methods and conformity assessment processes for odor monitoring devices and systems employed in the assessment of landfill odor. This standard may be used to demonstrate that a device under test (DUT) accurately predicts the odor intensity and quality that would be perceived by humans.

5.5 Need for the Project: Dozens of commercial volatile organic compound (VOC)/odor analysis devices have become available over the last two decades. Startup companies have emerged and marketed their devices widely around the world. Unfortunately, most of these efforts have failed because the performance promised to purchasers has not been achieved. DUTs meeting this standard will demonstrate to users that the device can repeatably detect odorants (alone and in mixtures) commonly generated at landfills. Tests will follow the procedures outlined in Standards 2520.1 and other tests validated by human panels. This standard will help companies develop devices and systems that meet their performance promises and allow

regulatory and public users to compare instruments from different suppliers.

5.6 Stakeholders for the Standard: Sensor manufacturers, instrument manufacturers, companies purchasing instruments for general applications, users who monitor odors, academics and those in the research sector, regulatory agencies.

6.1 Intellectual Property

6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?

No

6.1.2 Is the Standards Committee aware of possible registration activity related to this project?

No

7.1 Are there other standards or projects with a similar scope? No

7.2 Is it the intent to develop this document jointly with another organization? No

8.1 Additional Explanatory Notes: