

**INSTITUTE OF
ENVIRONMENTAL
SCIENCES AND
TECHNOLOGY**

**Contamination Control Division
Recommended Practice 028.1**

IEST-RP-CC028.1

Minienvironments

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1 SCOPE AND LIMITATIONS

1.1 Scope

The purpose of this document is to provide a framework for describing minienvironments for microelectronics and similar applications.

Applications, planning, design, and evaluation are discussed in detail.

This Recommended Practice is intended to stimulate discussion of specifications and configurations for a specified application between the supplier and customer. This Recommended Practice does not address microbiological issues or applications.

1.2 Limitations

This Recommended Practice is limited to a discussion of the design characteristics and operating characteristics of minienvironments and other locally controlled environments. Process equipment design falls outside the scope of this document.

This document does not supersede specific requirements established by recognized national or international regulating bodies. Certain specific hazardous materials, such as radioactive materials and genetically altered organisms, and certain toxic materials are not specifically addressed in this document. Users of these substances should augment this document with industry-specific publications.

2 REFERENCES

2.1 Institute of Environmental Sciences and Technology (IEST)

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IEST-RP-CC006.2: Testing Cleanrooms

IEST-RP-CC008-84: Gas-Phase Adsorber Cells

IEST-RP-CC012.1: Considerations in Cleanroom Design

IEST-RP-CC022.1: Electrostatic Charge in Cleanrooms and Other Controlled Environments

IEST-RP-CC034.1: HEPA and ULPA Filter Leak Tests

2.2 American National Standards Institute (ANSI)

Website: www.ansi.org

ANSI C63.14-1992 Dictionary of Technologies of Electromagnetic Compatibility (EMC), Electromagnetic Pulse (EMP), and Electrostatic Discharge (ESD)