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# AMERICAN NATIONAL STANDARD

## ANSI/MSE 50028-2016

***Superior Energy Performance<sup>®</sup> –  
Requirements for verification bodies for use  
in accreditation or other forms of  
recognition***

Secretariat:  
Georgia Tech Energy and Sustainability Services (GTESS)

Approved an American National Standard on November 22, 2016



## ANSI/MSE 50028-2016

### American National Standard

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### Foreword

The American National Standards Institute (ANSI) is a private, non-profit organization [501(c)(3)] that administers and coordinates the U.S. voluntary standardization and conformity assessment system. ANSI is the official U.S. representative to the International Organization for Standardization (ISO). ANSI is a U.S. representative to the International Accreditation Forum (IAF), and, via the U.S. National Committee, represents the U.S. to the International Electrotechnical Commission (IEC). ANSI is also the U.S. member of the Pacific Area Standards Congress (PASC) and the Pan American Standards Commission (COPANT).

ANSI approval of a standard verifies the principles of openness and due process have been followed in the approval procedure and a consensus of those directly and materially affected by the standards has been achieved. A Draft National Standard was circulated to the Georgia Tech Energy and Sustainability Services (GTESS) Consensus Board, consisting of a balanced group of materially affected interests and to those responding to the public announcements in *ANSI Standards Action*. Approval of this Standard as an American National Standard requires acceptance by a minimum of 80 percent of the Consensus Board members casting a vote.

ANSI/MSE 50028-2016, *Superior Energy Performance<sup>®</sup>—Requirements for verification bodies for use in accreditation or other forms of recognition*, was developed by GTESS. No patent rights or requirements for specific equipment or services are included in this Standard. ANSI/MSE 50028-2016 addresses requirements for bodies performing Superior Energy Performance<sup>®</sup> energy management system audit and certification and energy performance verification.

ANSI/MSE 50028-2016 contains three normative annexes (Annex A, Annex B, and Annex C) that provide requirements which are considered mandatory to this Standard.

Submit formal requests for interpretations of ANSI/MSE 50028-2016 requirements to GTESS Standards Coordinators, Holly Grell-Lawe (holly.lawe@innovate.gatech.edu) or Deann Desai (deann.desai@gatech.edu), Georgia Tech Energy and Sustainability Services, Enterprise Innovation Institute, 75 Fifth Street, N. W., Suite 300, Atlanta, GA 30332-0640; Telephone: 770-605-4474; Web: [www.energymangementstandards.org](http://www.energymangementstandards.org). The GTESS Interpretations Committee will review and determine disposition of each request.

ANSI/MSE 50028-2016 has been developed with the assistance of the following cooperating organizations:

3M	Freescale
AdvanTek, Inc.	Imel Engineering, LLC.
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DNV GL - Energy	Sterling Energy Management
Dow Chemical TCO	Texas Industries of the Future, Center for Energy and Environmental Resources, the University of Texas at Austin
Energy PRO-USA	Toyota Motor Engineering and Manufacturing North America, Inc.
Expo Energy & Environmental, Inc.	TRA Certification International, Inc.
Ford Motor Company, Purchasing – Lean Supplier Optimization	Trinity Consultants, Inc.
	Triple Point Energy, Inc.

## ANSI/MSE 50028-2016

### Introduction

Certification of an energy management system and verification of its energy performance by a competent verification body provides assurance that the organization has implemented a system that conforms to ISO 50001 and has attained a verified level of energy performance improvement in accordance with Superior Energy Performance® (SEP™) requirements.

This Standard specifies requirements for verification bodies performing SEP certification and energy performance verification. Observance of these requirements is intended to ensure that verification bodies (VBs) verify conformance to SEP requirements in a competent, consistent and impartial manner, thereby facilitating the recognition of such bodies and the acceptance of their certifications on a national and international basis. This Standard serves as a foundation for facilitating the recognition of SEP verification in the interests of international trade.

Certification to SEP requirements provides independent demonstration of energy performance improvement.

Conformity assessment and verification of energy performance provides value to the organization, its customers and interested parties.

This Standard is intended for use by bodies that verify energy performance in accordance with SEP requirements. Such bodies are referred to as verification bodies. This wording should not be an obstacle to the use of this Standard by bodies with other designations that undertake activities covered by the scope of this document.

Auditor competence is addressed for SEP through this Standard and the personnel certification schemes from the Institute of Energy Management Professionals™ (IEnMP).

In this Standard, the word "shall" indicates a requirement and the word "should" a recommendation.

# Superior Energy Performance® (SEP™) – Requirements for verification bodies for use in accreditation or other forms of recognition

## 1 Scope

This Standard applies to verification bodies seeking to perform SEP verification services.

## 2 Additional normative references

ISO/IEC 17021-1:2015, *Conformity Assessment – Requirements for bodies providing audit and certification of management systems – Part 1: Requirements*

ISO 50003:2014, *Energy management systems – Requirements for bodies providing audit and certification of energy management systems*

ANSI/MSE 50021, *Superior Energy Performance® — Additional Requirements for Energy Management Systems*

*Superior Energy Performance® Certification Protocol*  
NOTE 1 This is also called the *SEP Certification Protocol*

*Superior Energy Performance® Measurement and Verification Protocol*  
NOTE 2 This is also called the *SEP M&V Protocol*

*Superior Energy Performance® Scorecard*  
NOTE 3 This is also called the *SEP Scorecard*

## 3 Terms and definitions

### 3.1

#### Superior Energy Performance® (SEP™)

program that specifies energy performance achievement levels and the methods for verification of energy performance

### 3.2

#### SEP Lead Auditor (SEP LA)