



## Voting System Standards

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This document is part of the Draft Voting System Standards approved for public comment at the December 13, 2001, meeting of the Federal Election Commission. Use the links above to find the other parts.

# Appendix B

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# B

## Appendix - Applicable Documents

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### B.1 Documents Incorporated in the Standards

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#### ***Federal Regulations***

The following publications have been incorporated into the Standards. Specific provisions that have been incorporated are referenced in the body of the Standards.

Code of Federal Regulations, Title 20, Part 1910, Occupational Safety and Health Act

Code of Federal Regulations, Title 36, Part 1194, Architectural and Transportation Barriers Compliance Board, Electronic and Information Technology Standards - Final Rule

Code of Federal Regulations, Title 47, Parts 15 and 18, Rules and Regulations of the Federal Communications Commission

Code of Federal Regulations, Title 47, Part 15, "Radio Frequency Devices", Subpart J, "Computing Devices", Rules and Regulations of the Federal Communications Commission

#### ***American National Standards Institute (ANSI)***

ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9Khz to 40 GHz
ANSI C63.19	American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids

#### ***International Electrotechnical Commission (IEC)***

IEC 61000-4-2 (1995-01)	Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques. Section 2 Electrostatic Discharge Immunity Test (Basic EMC publication).
IEC 61000-4-3 (1996)	Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques. Section 3 Radiated Radio-Frequency

	Electromagnetic Field Immunity Test.
IEC 61000-4-4 (1995-01)	Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques. Section 4 Electrical Fast Transient/Burst Immunity Test.
IEC 61000-4-5 (1995-02)	Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques. Section 5 Surge Immunity Test.
IEC 61000-4-6 (1996-04)	Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques. Section 6 Immunity to Conducted Disturbances Induced by Radio-Frequency Fields.
IEC 61000-4-8 (1993-06)	Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques. Section 8 Power-Frequency Magnetic Field Immunity Test. (Basic EMC publication).
IEC 61000-4-11 (1994-06)	Electromagnetic Compatibility (EMC) Part 4: Testing and Measurement Techniques. Section 11. Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests.
IEC 61000-5-7 Ed. 1.0 b:2001	Electromagnetic compatibility (EMC) Part 5-7: Installation and mitigation guidelines—Degrees of protection provided by enclosures against electromagnetic disturbances

**National Institute of Standards and Technology**

FIPS 140-1	Security Requirements for Cryptographic Modules
FIPS 180-1	Secure Hash Standard
FIPS 188	Standard Security Label for Information Transfer
FIPS 196	Entity Authentication Using Public Key Cryptography
FIPS (number TBD)	Advanced Encryption Standard (AES) (Expected to become official December 2001)

**Institute of Electrical and Electronics Engineers**

TBD	TBD
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**Military Standards**

MIL-STD-498	Software Development and Documentation Standard, 1989
MIL-STD-810D (2)	Environmental Test Methods and Engineering Guidelines, 19 July 1983

## B.2 Standards Development Documents

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The following publications have been used for guidance in the revision of the Standards.

<b>American National Standards Institute (ANSI)</b>	ANSI/ISO/IEC TR 9294.1990	Information Technology Guidelines for the Management of Software Documentation
	ISO/IEC TR 13335-4:2000	Information technology—Guidelines for the management of IT Security—Part 4: Selection of safeguards
<b>International Organization for Standardization (ISO)</b>	ISO/IEC TR 13335-3:1998	Information technology—Guidelines for the management of IT Security—Part 3 Techniques for the management of IT security
	ISO/IEC TR 13335-2:1997	Information technology—Guidelines for the management of IT Security—Part 2: Managing and planning IT security
<b>International Electrotechnical Commission (IEC)</b>	ISO/IEC TR 13335-1:1996	Information technology—Guidelines for the management of IT Security—Part 1: Concepts and models for IT security
	ISO 10007:1995	Quality Mgmt. Guidelines for Configuration Management
	ISO 10005-1995	Quality Mgmt. Guidelines for Quality Plans
	ANSI/ISO/ASQC QS9000-3-1997	QM and QA standards Part 3: Guidelines for the application of ANSI/ISO/ASQC Q9000-1994 to the Development, Supply, Installation, and Maintenance of Computer Software
<b>Electronic Industries Alliance Standards</b>	MB2, MB5, MB9	Maintainability Bulletins
	EIA 157	Quality Bulletin
	EIA QB2-QB5	Quality Bulletins
	EIA RB9	Failure Mode and Effect Analysis, Revision 71
	EIA SEB1—SEB4	Safety Engineering Bulletins
	RS-232-C	Interface Between Data Terminal Equipment and Data Communications Equipment Employing Serial Binary Data Interchange
	RS-366-A	Interface Between Data Terminal Equipment and Automatic Calling Equipment for Data Communication
	RS-404	Standard for Start-Stop Signal Quality Between Data Terminal Equipment and Non-synchronous Data Communication Equipment
<b>National Institute of Standards and Technology</b>	NISTIR 4909	Software Quality Assurance: Documentation and Reviews
<b>Institute of Electrical and Electronics Engineers</b>	610.12-1990	IEEE Standard Glossary of Software Engineering Terminology
	730-1998	IEEE Standard for Software Quality Assurance Plans
	828-1998	IEEE Standard for Software Configuration Management Plans
	829-1998	IEEE Standard for Software Test Documentation
	830-1998	IEEE Recommended Practice for Software Requirements Specifications

## **B.3 Guidance Documents**

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The following publications contain information that is useful in understanding and complying with the Standards.

**American National Standards Institute (ANSI)**

ANSI/ISO/IEC TR 10176.1998

Information Technology Guidelines for the Preparation of Programming Language Standards

ANSI/ISO/IEC 6592.2000

Information Technology Guidelines for the Documentation of Computer Based Application Systems

**International Organization for Standardization (ISO)**

ANSI/ISO/ASQC Q9000-3-1997

Quality management and quality assurance standards Part 3: Guidelines for the application of ANSI/IAO/ASQC Q9001-1994 to the Development, supply, installation and maintenance of computer software

**International Electro-technical Commission (IEC)**

ANSI/ISO/ASQC Q9000-1-1994

Quality Management and Quality Assurance Standards—Guidelines for Selection and Use

ANSI/ISO/ASQC Q10007-1995

Quality Management Guidelines for Configuration Management

**National Institute of Standards and Technology**

FIPS 102

Guideline for Computer Security Certification and Accreditation

FIPS 112

Password Usage (3)

FIPS 113

Computer Data Authentication

**Institute of Electrical and Electronics Engineers**

488-1987

IEEE Standard Digital Interface for Programmable Instrumentation

796-1983

IEEE Standard Microcomputer System Bus IEEE/ANSI Software Engineering Standards

750.1-1995

IEEE Guide for Software Quality Assurance Planning

1008-1987

IEEE Standard for Software Unit Testing

1016-1998

IEEE Recommended Practice for Software Design Descriptions

1012-1998

IEEE Guide for Software Verification and Validation Plans

**Military Standards**

MIL-HDBK-454

Standard General Requirements for Electronic Equipment

MIL-HDBK-470

Maintainability Program for Systems & Equipment

MIL-STD-882

Systems Safety Program Requirements

MIL-STD-1472

Human Engineering Design Criteria for Military Systems, Equipment and Facilities

***Other References***

Designing for the Color-Challenged: A Challenge, by Thomas G. Wolfmaier (March 1999);  
[http://www.sandia.gov/itg/newsletter/mar99/accessibility\\_color\\_challenged.html](http://www.sandia.gov/itg/newsletter/mar99/accessibility_color_challenged.html);

Effective Color Contrast: Designing for People with Partial Sight and Color Deficiencies, by Aries Ardit, Ph.D;  
[http://www.lighthouse.org/color\\_contrast.htm](http://www.lighthouse.org/color_contrast.htm)