

	<b>PRINCETON PLASMA PHYSICS LABORATORY</b> ES&H DIRECTIVES		
	ES&HD 5008 <b>SECTION 2, CHAPTER 16</b> <b>References</b>		
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## CHAPTER 16 REFERENCES

NOTE: All references below may not be current editions. A copy of the referenced material may be found in C-Site, Mod VI, either in the ES&H Library, designated "-LIB" or in Room 116 designated "-116." All dates have not been shown to avoid revising references for a date change. The latest revision should be used when referring to references.

### A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) –116

ANSI C2	National Electrical Safety Code (NEC)
ANSI C39.5	Safety Requirements for Electrical and Electronic Instrumentation.
ANSI C84.1	Voltage Ratings (60 Hertz) for Electrical Power Systems and Equipment.
ANSI Z87.1	American National Standard for Occupational and Educational Eye and Face Protection
ANSI Z89.2	Protective Headware for Industrial Workers
ANSI Z535.2	Environmental and Facility Safety Signs
ANSI Z535.3	Criteria for Safety Symbols
ANSI Z535.4	Product Safety Signs and Labels
ANSI Z535.5	Accident Prevention Tags (for Temporary Hazards)

### B. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) –116

ASTM Specification D178	Standard Specification for Rubber Insulating Matting
ASTM Specification F855	Standard Specifications for Temporary Grounding Systems to be used on De-Energized Electric Power Lines and Equipment
ASTM Specification F1236	Guide for Visual Inspection of Electrical Protective Rubber Products
ASTM Specification F1506	Standard Specification for Protective Wearing Apparel for Use by Electrical Workers when Exposed to Momentary Electric Arc and Related Thermal Hazards

**C. CABLE INSTALLATION MANUAL –116** (Published by the Anaconda Co., Wire and Cable Div.)

### D. CODE OF FEDERAL REGULATIONS (CFR) –LIB

Title 29, Part 1910 and Part 1926	Occupational Safety and Health Standards (OSHA)
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**E. FACTORY MUTUAL ENGINEERING CORPORATION (FMEC) –LIB**

Loss Prevention Data Sheet 5-4/14-8	Transformers
Loss Prevention Data Sheet 5-19/14-21	Switchgear and Circuit Breakers
Loss Prevention TAB 5-20/14-22	Recommendations for Electrical Testing
Loss Prevention Data Sheet 5-27/14-27	Programmable Controllers
Loss Prevention Data Sheet 5-31/14-5	Cables and Bus Bars

**F. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE) –116**

IEEE Standard 80	Guide to Safety in Substation Grounding
IEEE Standard 100	Dictionary of Electrical and Electronic Terms
IEEE Standard 142	Recommended Practice for Grounding of Industrial and Commercial Power Systems
IEEE Standard 446	Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications
IEEE Standard 510	Recommended Practices for Safety in High-Voltage and High-Power Testing
IEEE Transactions Vol. PAS-102, No. 5, May 1983 (82-SM-476-0) - A Range of Body Impedance Values for Low-Voltage, Low-Source Impedance Systems of 60 Hz - by M.S. Hammam	

**G. INSULATED CABLE ENGINEERS ASSOCIATION (ICEA) –116**

Publication No. P-32-382	Short-Circuit Characteristics of Insulated Cables
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**H. INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) –116**

Pub. 479-1	Effects of current passing through the human body
Pub. 900	Hand tools for live working (sic) up to 1000 V ac and 1500 V dc
Pub. 903	Specifications for gloves and mitts of insulating material for live working (sic)

**I. INTERNATIONAL ELECTRICAL TESTING ASSOCIATION (NETA) –116**

ATS Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems
MTS Maintenance Testing Specifications for Electrical Power Distribution Equipment and Systems

**J. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) –116**

NEMA Standard ICS 1	General Standards for Industrial Control and Systems
NEMA Standard ST 20	Dry-Type Transformers for General Applications

**K. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) –LIB**

NFPA 70	National Electrical Code (NEC)
NFPA 70E	Standard for Electrical Safety Requirements for Employee Workplaces
NFPA 70HB	National Electrical Code Handbook

NFPA 70B	Electrical Equipment Maintenance
NFPA 77	Static Electricity
NFPA 79	Electrical Standard for Industrial Machinery
NFPA 101	Life Safety Code
NFPA 780	Lightning Protection Code

#### L. NATIONAL SAFETY COUNCIL (NSC) –116

OS&H Textbooks	MORT Safety Assurance Systems
Data Sheet I 598	Flexible Insulating Protective Equipment for Electrical Workers
Data Sheet I 670	Working Alone in R&D Laboratories

#### M. ORDERS OF THE US DEPARTMENT OF ENERGY (DOE) –LIB

The change dates of the Orders listed below are the dates that were current prior to release of Revision 4 of ES&HD 5008, Section 2.0.

DOE-HDBK-1092-98	DOE Handbook- Electrical Safety
DOE 1300.2A	Department Of Energy Technical Standards Program, 5/19/92
DOE 232.1A	Occurrence Reporting and Processing of Operations Information, 7/21/97
DOE 5480.19	Conduct of Operations Requirements for DOE Facilities, 5/18/92
DOE 5480.20A	Personnel Selection, Qualification, and Training Requirements,-11/15/94
DOE 5480.21	Un-reviewed Safety Questions, 12/24/91
DOE 5480.22	Technical Safety Requirements, 9/15/92
DOE 420.1	Facility Safety, 10/24/96
DOE 440.1	Worker Protection Management For Doe Federal And Contractor Employees, 10/21/96
DOE 5481.1B	Safety Analysis and Review System, 9/23/86
DOE 6430.1A	General Design Criteria Manual, 4/6/89
DOE/ID-10600	Electrical Safety Guidelines 9/01/93
DOE/TIC-11603	Nonreactor Nuclear Facilities: Standards and Criteria Guide, Brynda Guide Rev. 1
DOE-EV-0051/1	Electrical Safety Criteria for Research and Development Activities

#### N. PRINCETON PLASMA PHYSICS LABORATORY (PPPL) –LIB

ES-COMP-003	Personnel Safety Interlock System Design Standard
ES-ELEC-004	Electrical Construction Specification for Installations Operated at 600 Volts and Below
ENG-011	Interlock Key Control
ENG-028	Penetration Cutting / Drilling
ESH 001	Use of Safety, Accident Prevention, and Equipment Tags
ESH 002	Facility Safety Signs
ESH-014	National Environmental Policy Act (NEPA) Review System.
ESH 016	Control of Hazardous Energy Sources Via Lockout/Tagout of Energy Isolation Devices
GEN-006	Occurrence Reporting and Processing of Operations Information
PPPL-O-027	Line Management Safety Organization
PPPL-P-046	Cable Tagging and Removal

PPPL-STD-001	Programmable Logic Controller (PLC) Qualification/Application Standards TFTR
PM.505	Work Rules for Class C & D Energized Electric Circuits - 6/12/91-FED
OP-AD-100	Instructions and Requirements for Writing, Reviewing and Approving PPPL Procedures –PPPL Document Control Center

**O. OMITTED**

**P. UNDERWRITERS LABORATORIES, INC. (UL) –116**

UL Standard 96A	Installation Requirements for Lightning Protection Systems
UL Standard 467	Grounding and Bonding Equipment
UL Standard 1063	Machine-Tool Wire and Cables UL Standard 1244 - Electrical and Electronic Measuring and Testing Equipment
UL Standard 1244	Electrical and Electronic Measuring and Testing Equipment