




ANALYSIS AND MEASUREMENT SERVICES CORPORATION

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LIST OF AMS PROCEDURES

As of December 2018

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Reviewed By

12/4/2018

Date

Informational copies of specific procedures referenced in this listing can be obtained by contacting the AMS QA Department by e-mail at: qa@ams-corp.com or phone at: (865) 691-1756.

1. QA ADMINISTRATION

<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
ADA8801R1		AMS Policy and Procedure Regarding Alcohol and Drug Abuse.	December 2008
AMR1501R0		Procedure for the Annual Management Review of the AMS Quality Assurance Program for ISO/IEC 17025.	December 2015
AUD8601R8		Procedure for Quality Assurance Audits.	October 2013
CAT9201R8	✓	Procedure for Producing and Tracking Condition Reports and Corrective Action.	April 2017
CCS1601R0		Procedure for Creating Customer MLCSR Software Disks.	April 2016
CDR8601R8		Procedure for Control of Documents and QA Records.	December 2015
CFB1401R1		Procedure for Obtaining Customer Feedback from Work Performed by AMS.	September 2016
CGC1110R3	✓	Procedure for the Dedication of Accredited Commercial Calibration Services.	September 2016
CGT1701R1	✓	Procedure for the Dedication of Accredited Commercial Testing Services.	December 2017
EDM0001R3	✓	Procedure for Equipment Design or Modification.	September 2011
GRS8401R8	✓	General Procedure for Receiving, Storage, and Shipping.	September 2016
HPO8601R9	✓	Procedure for Handling Purchase Orders.	March 2017
IAP1401R2		Procedure for the Annual Internal Audit of the AMS ISO/IEC 17025 Testing Laboratory.	December 2015
NCP8401R8	✓	Procedure for Identification and Control of Nonconforming Activities and Items.	April 2017
PAR9001R6		Procedure for the Annual Review of the AMS Quality Assurance Program.	December 2014
PBU0001R2	✓	Guidelines for Backup of Essential Software and Other Essential Information on the AMS Network System.	December 2014
PDC8701R0	✓	Procedure for Design Control.	February 1987
PES8301R8	✓	Procedure for Evaluation of AMS Suppliers of Quality-Related Components and Services.	November 2016
POR8901R8	✓	Procedure for Routing of Customer Purchase Orders & Contracts.	March 2017

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1. QA ADMINISTRATION

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PQP8501R12	✓	Personnel Qualification Procedure.	August 2016
PRR1401R2	✓	Procedure for Producing AMS Final Reports.	September 2016
PWP8401R8	✓	Procedure for Writing Procedures.	January 2017
QAD0901R1		Qualification of Internal Auditors of the AMS Quality Assurance Program.	December 2009
QAM0101R11		Analysis and Measurement Services Corporation Quality Assurance Manual.	September 2016
QAU9901R4		Qualification of Lead Auditor to Perform Audits of and for the AMS Quality Assurance Program.	October 2011
SCM0101R4		Software Configuration Management Plan for Analysis and Measurement Services Corporation.	May 2014
SDC8601R10	✓	Procedure for Computer Software and Data Control.	August 2016
SDM9201R8	✓	Procedure for Software Development or Modification.	August 2016
TCR8901R7	✓	Administration of 10 CFR Part 21 Requirements.	March 2017

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2. MISCELLANEOUS

<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
AFL1701R0	✓	Procedure for As-Found/As-Left Analysis of Transmitter Calibration Data.	May 2017
APR8901R0	✓	Procedure for Annealing of Platinum RTDs.	October 1989
CASP9501R0	✓	Procedure for Annealing of Standard Platinum Resistance Thermometers.	January 1995
DAC9201R2	✓	Procedure for the Detailed Analysis of Cross Calibration Data.	November 1993
DHP0101R0	✓	Procedure for Receiving, Handling and Storing of On-Line Monitoring Data.	November 2001
DHP1102R1	✓	Procedure for Receiving, Handling, and Storing of As-Found As-Left Calibration Data.	December 2012
ETC9601R0	✓	ETC-3 Functionality Procedure.	January 1996
GNA0905R0	✓	Analysis of Noise Data for Sensor Response Time Testing.	September 2005
LDA8601R1	✓	Procedure for LCSR Data Analysis.	July 2006
NAR9201R4	✓	Procedure for Determining Sensor Response Time Results from Noise Analysis.	July 2012
PIA8901R1	✓	Analysis Procedure for Power Interrupt Test Data.	July 1990
RAN9701R0		In-Situ Annealing of RTDs as Installed in an Operating Process.	June 1997
RCC8901R5		General Procedure for In-Plant RTD Cross Calibration in Pressurized Water Reactors.	July 1993
RVF8401R0	✓	AMS Procedure for Resistance Thermometer Time Constant vs. Flow Characterization.	December 1985
SPC0101R0		Cross Calibration of Primary Coolant RTDs (Data Acquired at Separate Locations).	August 2001
SPW9101R2		Cross Calibration of Primary Coolant RTDs at Waterford Nuclear Power Plant.	February 1994
TFM0001R1		RCS Flow Measurement Using AMS EFM Transit Time Flowmeter.	June 2004
TIN9501R0	✓	Procedure for Tinning Wire.	January 1995

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3. CALIBRATION

<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
01A9301R1	✓	Operability and Calibration Check of the HP 34401A DMM.	October 2011
2871301R0	✓	Operability and Calibration Check for the Fluke 287 Multimeter.	May 2013
57A9201R3	✓	Operability and Calibration Check for the HP 3457A Multimeter.	October 2011
A340501R4	✓	Operability and Calibration Check of the Agilent 34970A DMM/Switch Unit.	June 2018
ARD0001R4	✓	AMS Automated Rod Drop Equipment Calibration Check Procedure.	October 2011
ARD1201R0	✓	AMS DDS-1 DRPI Coil Diagnostic Calibration Check Procedure.	May 2012
CAD9701R4	✓	National Instruments Analog-To-Digital Converter Calibration Check Procedure.	October 2011
CDA1501R0	✓	National Instruments Digital-To-Analog Converter Calibration Check Procedure.	September 2016
CDM1501R0	✓	AMS CEDM Control Element Drive Mechanism System Calibration Check Procedure.	July 2015
CER0101R4	✓	Procedure for Calibrating ERT-3.	October 2011
CFM1501R1	✓	Operability and Calibration Check for the Fluke 187 Multimeter.	February 2016
CLM0601R2	✓	Operability and Calibration Check for the Agilent 4263A, 4263B and Fluke PM6304 LCR Meters.	October 2011
CMS1201R4	✓	Operability and Calibration Check for the CHAR 2012 Cable Condition Monitoring System.	June 2018
CRD1401R0	✓	AMS CRDM Voltage Test Unit Calibration Check Procedure	March 2014
CSP9301R2	✓	Procedure for the Calibration Check of Standard Platinum Resistance Thermometers.	October 2011
CTE1701R0	✓	Time Events Analyzer (TEA) Calibration Check Procedure.	September 2017

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3. CALIBRATION

<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
CTH9401R1	✓	Procedure for the Calibration Check of a Temperature/Humidity Recorder.	April 2009
DAS0101R5	✓	Procedure for Calibrating ELC.	May 2017
DIA1701R0	✓	Procedure for Performing Dial Indicator Calibration.	January 2017
EAB1701R0	✓	Procedure for Performing Elongation at Break Calibration.	January 2017
EIS9401R2	✓	Operability and Calibration Check of the AMS Model EIS-1 Isolation Amplifier.	February 2017
ENT1001R3	✓	AMS Model ENT Calibration Check Procedure.	August 2014
ERD0401R1	✓	AMS ERD-3 Rod Drop Equipment Calibration Check Procedure.	October 2011
ERD1001R2	✓	AMS ERD-4 Rod Drop Equipment Calibration Check Procedure.	October 2017
ERT9701R4	✓	Procedure for Calibration of the ERT-2.	October 2011
F571601R0	✓	Calibration Procedure for Fluke Model 5730A Calibrator.	March 2016
GDC1201R0	✓	AMS EGC-3 Gray Code Rod Drop Equipment Calibration Check Procedure.	May 2012
GPC9201R4	✓	General Procedure for the Calibration and Use of Measurement and Test Equipment.	July 2012
HP589101R4	✓	Calibration of the HP 3458A Digital Multimeter.	March 2016
HVP0601R2	✓	Operability and Calibration Check for the Fluke 80K-6 High Voltage Probe.	September 2015
IDC1801R0	✓	AMS Model MID-1 Calibration Check Procedure.	June 2018
IRM0801R1	✓	Operability and Calibration Check for the Agilent 4339B Insulation Resistance Meter.	October 2011
MEG0401R1	✓	Operability and Calibration Check for the BMM2500 Megger.	October 2011
MIR9706R2	✓	Procedure for Calibration of Quadtec Model 1865 Megohmmeter/IR Tester.	April 2014

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3. CALIBRATION

OLM0901R3	✓	Procedure for Calibration Check of AMS OLM Noise Data Acquisition Equipment.	February 2013
<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
PAM0601R3	✓	Operability and Calibration Check of the Keithley Picoammeter.	October 2011
PCS9201R3	✓	Procedure for the Calibration of Standard Resistors and Decade Boxes.	February 2016
PIC1701R0	✓	Procedure for Indenter Polymer Aging Monitor 4 (IPAM 4) Calibration of Safety-Related and Commercial (Non-Safety-Related) Items and Services Using IPAM4 Equipment.	January 2017
PIC1702R0	✓	Procedure for Indenter Polymer Aging Monitor 5 (IPAM 5) Calibration of Safety-Related and Commercial (Non-Safety-Related) Items and Services Using IPAM4 Equipment.	October 2017
PRC8601R2	✓	Procedure for Calibration of RTDs.	October 2011
PSH0601R2	✓	Operability and Calibration Check for the Keithley High Voltage Power Supply.	March 2017
RPI1002R0	✓	AMS RPI-4 Data Acquisition System Equipment Calibration Check Procedure for ARPI Rod Drop.	March 2010
RPT1501R1	✓	Operability and Calibration Check for the AMS RPT-2 Test Equipment.	September 2016
TDS0810R1	✓	Operability and Calibration Check for the Tektronix TDS1000B and TDS200 Series Oscilloscopes.	October 2011
USB0901R1	✓	National Instruments USB-6009 Calibration Check Procedure.	November 2010

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4. TEST

<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
ARD0901R2	✓	Procedure for Measurement of DRPI Coil Signals of Control and Shutdown Rods in Westinghouse PWRs with DRPI Power-On.	May 2012
ARP0801R3	✓	Procedure for Automated Measurement of Rod Drop Times in Westinghouse (ARPI) PWRs.	February 2012
CAA1701R1	✓	Procedure for Performing Aging Assessments of Cables and Materials.	July 2018
CCT1001R3	✓	Procedure for Diagnostic Testing of Westinghouse, Combustion Engineering, and Babcock & Wilcox Nuclear Instrumentation System Cables and Detectors using AMS/CHAR Equipment.	August 2015
CED1401R0	✓	Procedure for Testing the Control Element Drive Mechanism (CEDM) in Combustion Engineering PWRs.	November 2014
CIV0901R0	✓	Procedure for Current-To-Voltage Testing of Gamma Metrics Nuclear Instrumentation.	January 2009
CPH1501R0	✓	Procedure for Diagnostic Testing of Pressurizer Heater Circuits using AMS/CHAR Equipment.	January 2015
CRD9301R4	✓	Procedure for Testing the Control Rod Drive Mechanism (CRDM) in Westinghouse PWRs	June 2014
CRD0801R1	✓	Procedure for Testing the Control Rod Drive Mechanism (CRDM) Cables in Westinghouse PWRs.	November 2008
CRS0601R2	✓	Procedure for Analysis of On-Line Calibration Monitoring Data of Pressure, Level, and Flow Transmitters.	July 2008
CTR0101R0	✓	RTD Cold Tests to Verify Proper Installation for Yielding Optimum Response Time at NOP/NOT.	September 2001
DCH1401R0	✓	Procedure for Testing the Rod Control DC Hold Circuitry in Westinghouse PWRs	January 2014
DCT1101R1	✓	Procedure for Diagnostic and Condition Monitoring Testing of Cable and Systems Using CHAR (2000, 2003, 2010, 2012) Systems.	June 2014
DEN1701R0	✓	Procedure for Performing Density Testing.	January 2017
DSC1701R0	✓	Procedure for Performing Differential Scanning Calorimetry Testing.	January 2017
DTR1201R0	✓	Procedure for Diagnostic Testing of Resistance Temperature Detector Cables Using AMS/CHAR Equipment.	March 2012

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<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
ERD0001R4	✓	Procedure for Automated Measurement of Drop Times of Control and Shutdown Rods in Westinghouse PWRs with DRPI Power-On.	February 2014
ERD9901R0	✓	Procedure for Automated Measurement of Drop Times of Control and Shutdown Rods in Westinghouse PWRs using the AMS ERD Rod Drop Test Equipment.	March 1999
GCR0001R0	✓	Procedure for Automated Measurement of Drop Times of Control and Shutdown Rods in Westinghouse PWRs Using Gray-Code Signals.	January 2000
IDT1801R0	✓	Procedure for Testing the Movable Incore Detector System (MIDS) Using the AMS Model MID-1.	June 2018
KLS1601R0	✓	Procedure for Khrono BM26 Liquid Level Detection Sensor Noise Data Collection.	December 2016
NDC8701R5	✓	Procedure for Noise Data Collection.	July 2009
NGE1501R0	✓	Procedure for Diagnostic Testing of Nuclear Instrumentation System Cables in General Electric BWR Plants Using AMS/CHAR Equipment	June 2015
NPS1501R0	✓	Procedure for Noise Data Collection from Plant Sensors.	March 2015
PCC1101R0	✓	General Procedure for Plant Computer RTD and Thermocouple Cross Calibration in Pressurized Water Reactors.	October 2011
PCT9501R2	✓	Procedure for Diagnostic Testing of Electrical/ Electronic Cables.	July 2003
PEC8401R10	✓	Procedure for Pre-Trip Equipment Checkout.	September 2014
PIT9501R6	✓	General Procedure for In-Plant Testing.	September 2016
PIT1201R1	✓	Procedure for Indenter Testing of Nuclear Cables Using AMS/CHAR Equipment.	February 2018
PLR8301R9	✓	Procedure for LCSR Testing of RTDs using AMS Model ERT Response Time Test Instrument.	September 2017
PNG0201R2	✓	Procedure for Response Time Testing of Pressure Transmitters Using the AMS Model PNG (PNG-1 or PNG-2).	December 2013

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4. TEST

PRT8302R0		Procedure for In-Situ Measurement of RTD Insulation Resistance.	June 1983
PSC9901R0	✓	Procedure for Detection of Sensing Line Blockages Using AMS PSD Comparator.	January 1999
PSR8301R6	✓	Procedure for Self Heating Testing of RTDs.	September 2017
PTM8201R4	✓	AMS Procedure for Resistance Thermometer Time Constant Measurement Using Plunge Test Method.	February 2013
RCT9301R13	✓	General Procedure for In-Plant RTD and Thermocouple Cross Calibration in Pressurized Water Reactors.	June 2018
RCT0601R0	✓	General Procedure for In-Plant RTD Leadwire Measurements in Pressurized Water Reactors.	February 2006
RDM9401R1	✓	Procedure for Automated Measurement of Drop Times of Control and Shutdown Rods in Westinghouse PWRs (Modified DRPI).	August 1995
RDP9301R3	✓	Procedure for Automated Measurement of Drop Times of Control and Shutdown Rods in Westinghouse PWRs.	September 1996
RPT1601R0	✓	Procedure for Power Interrupt Response Time Testing of Force-Balance Pressure Transmitters in Nuclear Power Plants Using RPT-2	September 2016
RPT8501R6	✓	Procedure for Power Interrupt Response Time Testing of Force-Balance Pressure Transmitters in Nuclear Power Plants.	March 2014
SCY0201R1	✓	Procedure for Testing the Logic Cabinet Slave Cyclor Timing and Sequencing in Westinghouse PWRs.	August 2016
SPC9201R3		AMS Procedure for Determining the Uncertainty of RTD and Thermocouple Cross Calibration Results.	November 1993
SPL9201R0		Determining Leadwire Imbalances in Three-Wire RTDs.	March 1992
SRD1501R0	✓	Procedure for Automated Measurement of Drop Times of Control and Shutdown Rods in Westinghouse PWRs Using Stationary Gripper Decay Trigger.	August 2015
SRT0101R5	✓	Ramp Testing of Pressure Transmitters Using the SG-1M Ramp Test Unit.	March 2016

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<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
SRT0801R0	✓	Procedure for Operability Testing of Pressure Transmitters Using the SG-1M Ramp Test Unit.	December 2008
TCT8801R0	✓	Thermocouple Loop Current Step Response Test Procedure.	June 1988
TEA1701R0	✓	Procedure for Testing the Emergency Safeguards System Using the Time Events Analyzer.	September 2017

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5. EMC

<u>Procedure #</u>	<u>Lab</u>	<u>Description</u>	<u>Revision Date</u>
CNV1301R0	✓	Procedure for Performance Verification of IEC 61000-4-16 1uF, 100 by OHM Coupling Networks.	June 2013
CPV1201R0	✓	Procedure for Performance Verification of Tektronix P6021 Current Probe.	November 2012
ECF1301R1	✓	Procedure for the Generation and Control of Equipment Correction Factors.	August 2013
EIT1201R1	✓	Procedure for EMI/RFI Troubleshooting.	September 2016
EMC1301R3	✓	General Procedure for Electromagnetic Compatibility Testing.	August 2016
EMC1401R2	✓	Guidelines for Electromagnetic Compatibility Testing.	December 2018
GIT1301R0	✓	General Procedure for In-situ Radiated Immunity Testing of Nuclear Power Plant Equipment.	February 2013
GTM1301R0	✓	Procedure for Calibration of the Gigahertz Transversal Electromagnetic (GTEM) Cell.	June 2013
ILP1201R2	✓	Procedure for Verification/Characterization of Insertion Loss.	September 2016
MEC1401R2	✓	Procedure for Maintenance of EMC Chambers.	November 2018
MLI1301R0	✓	Procedure for the Measurement of Line Impedance Stabilization Network (LISN) Impedance.	May 2013
PAS1501R0	✓	Procedure for Referencing A2LA Accredited Status.	July 2015
PEU1301R0	✓	Procedure for the Estimation of Uncertainty.	March 2013
TPD1401R0	✓	General Procedure for Developing Test and Troubleshooting Plans.	May 2014

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5. EMC

STANDARDS USED

<u>Standard #</u>	<u>Description</u>
	<i>U.S. Nuclear Regulatory Commission</i>
Reg. Guide 1.180, Rev. 1	Guidelines for Evaluating Electromagnetic and Radio-Frequency Interference in Safety-Related Instrumentation and Control Systems.
	<i>Electric Power Research Institute</i>
TR-102323-R1	Guidelines for Electromagnetic Interference Testing in Power Plants, Revision 1.
TR-102323-R2	Guidelines for Electromagnetic Interference Testing in Power Plants, Revision 2.
TR-102323-R3	Guidelines for Electromagnetic Interference Testing in Power Plants, Revision 3.
TR-102323-R4	Guidelines for Electromagnetic Interference Testing in Power Plants, Revision 4.
	<i>U.S. Department of Defense</i>
MIL-STD-461E	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment.
MIL-STD-461F	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment.
MIL-STD-461G	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment.
	<i>International Electrotechnical Commission (IEC)</i>
ISO/IEC 17025 (2005)	General Requirements for the Competence of Testing and Calibration Laboratories.
IEC 61000-4-2 (1995-01, 1999-02, 1999-05, 2008-12)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 2: Electrostatic Discharge Immunity Test.
IEC 61000-4-3 (1998-11, 2010-04)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 3: Radiated, Radio-Frequency, Electromagnetic Field Immunity Test.
IEC 61000-4-4 (1995-01, 2012-04)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 4: Electrical Fast Transient/Burst Immunity Test.
IEC 61000-4-5 (1995-02, 2014-05)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 5: Surge Immunity Test.
IEC 61000-4-6 (1996-03, 2018-10)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 6: Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields.

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STANDARDS USED

<u>Standard #</u>	<u>Description</u>
IEC 61000-4-8 (1993-06, 2009-09)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 8: Power-Frequency Magnetic Field Immunity Test.
IEC 61000-4-9 (1993-06, 2001-03)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 9: Pulse Magnetic Field Immunity Test.
IEC 61000-4-10 (1993-06, 2001-03)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 10: Damped Oscillatory Magnetic Field Immunity Test.
IEC 61000-4-12 (1995-05, 2006-09)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 12: Oscillatory Waves Immunity Test.
IEC 61000-4-13 (2002-03, 2009-07)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 13: Harmonics and Interharmonics Including Mains Signalling at A.C. Power Port, Low Frequency Immunity Tests.
IEC 61000-4-16 (1998-01, 2002-07, 2011-05)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 16: Test for Immunity to Conducted, Common Mode Disturbances in the Frequency Range 0 Hz to 150 Hz.
IEC 61000-4-20 (2003-10, 2010-08)	Electromagnetic Compatibility Part 4: Testing and Measurement Techniques. Section 20: Emission and Immunity Testing in Transverse Electromagnetic (TEM) Waveguides.
IEC 62003 (2009-03)	Nuclear Power Plants – Instrumentation and Control Important to Safety – Requirements for Electromagnetic Compatibility Testing.
IEC CISPR 11 (2010-05)	Industrial, Scientific and Medical Equipment – Radio-Frequency Disturbance Characteristics – Limits and Methods of Measurement.
IEC CISPR 16-1-4 (2012-07)	Specification for Radio Disturbance and Immunity Measuring Apparatus and Methods.

Institute of Electrical and Electronics Engineers

IEEE C62.45-1992	IEEE Guide on Surge Testing for Equipment Connected to Low-Voltage AC Power Circuits.
IEEE C62.41-1991	IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.

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