

**PSS Appendix 11-1  
Codes and Standards**

Table 1

Codes and Standards Likely Applicable to Wind Project Construction, excluding Project  
Substations and POI Switchyard

AAN	American Association of Nurserymen
ACI	American Concrete Institute
AISI	American Iron and Steel Institute
ANSI	American National Standards Institute, Inc.
ASCE	American Society of Civil Engineers
ASLA	American Society of Landscape Architects
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing Materials
AS & W	American Steel & Wire Corporation
AWPA	American Wood-Preservers Association
AWS	American Welding Society
EI	Electrical Engineering Institute
IEC 61400-1	Wind Turbine Safety and Design
NEMA	National Electrical Manufacturers Association
OSHA	Occupational Safety and Health Administration, U.S. Department of Labor
PCCM	Pre-stressed Concrete Construction Manual
SAE	Society of Automotive Engineers
SCM	Steel Construction Manual
SSPC	Steel Structures Painting Council

Table 2

Codes and Standards Likely to Project Substations and POI Switchyard

AA	Aluminum Association
AEIC	Association of Edison Illuminating Companies
ANSI	American National Standards Institute
	C2 National Electric Safety Code (NESC)
	C29.1 Test Methods for Electrical Insulators
	C29.9 Wet Process Porcelain Insulators, Apparatus, Post Type
	C37.30 Definitions and Requirements for High Voltage Air Switches, Insulators and Bus Supports
	C37.32 Schedules of Preferred Ratings, Manufacturing, Specifications and Bus Supports
	Z55.1 Gray Finishes for Industrial Apparatus and Equipment
ASNT	American Society of Nondestructive Testing
ASTM	American Society for Testing and Materials
	A36 Standard Specification for Carbon Structural Steel
	A123 Standard Specification for Zinc (Hot-Dip-Galvanized) Coatings on Iron and Steel Products
	A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron Steel Hardware
	A307 Standard Specification for Carbon Steel bolts and Studs, 60,000 PSI Tensile Strength
	A394 Standard Specification for Steel Transmission Tower Bolts, Zinc-Coated and Bare
	A500 Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Tubing in Rounds and Shapes
	A992 Standard Specification for Structural Steel Shapes
	B211 Aluminum-Alloy Bars, Rods and Wire (Alloy 990A)
	B230 Aluminum Wire, 1350-H19 for Electrical Purposes –
	B231 Aluminum Conductors, Concentric-Lay-Stranded
	B232 Aluminum Conductors, Concentric-Lay-Stranded, Steel Reinforced (ACSR)
	B241 Specification for Aluminum-Alloy Seamless Tube
	B317 Extruded Aluminum-Alloy Bars, Rods, Pipe and Structural Shapes for Electrical Purposes
	B326 Aluminum Bars for Electrical Purposes (Bus Bars)
AWS	American Welding Society
EEl	Edison Electric Institute
BCNYS	Building Code of New York State
	based on 2000 International Building Code (IBC) with 2001 Supplement (which includes seismic standards)

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IEEE	Institute of Electrical and Electronic Engineers
	IEEE C62 IEEE Guides and Standards for Surge Protection, complete collection
	IEEE 80 IEEE Guide for Safety in AC Substation Grounding
	IEEE 605 IEEE Guide for the Design of Substation Rigid-Bus Structures
	IEEE 693 IEEE Recommended Practices for Seismic Design of Substations
	IEEE 998 IEEE Guide for Direct Lightning Stroke Shielding of Substations
IES	Illuminating Engineering Society of North America
ISA	Instrument Society of America
ICEA	Insulated Cable Engineering Association
ISO	International Standards Organization
NFPA	National Fire Protection Association
NEC	NFPA 70 National Electric Code
NEMA	National Electrical Manufacturer's Association
	CC1 Electronic Power Connectors
	SG1 Electric Power Connectors
	SG6 Power Switching Equipment
	TTI Tapered Tubular Steel Structures
	LA1 Lightning Arresters
	MG1 Motors and Generators
	HV1 High Voltage Insulators
	EI-21.2 Instrument Transformers
	107 Methods of Measurement of Radio Influence Voltage (RIV) of High-Voltage Apparatus
OSHA	Occupational Safety and Health Act
UL	Underwriter's Laboratories
NEHRP	The 2000 NEHRP Recommended Practice for the Design of Substations
NYS BC	New York State Building Code
NYS FC	New York State Fire Code