

MANUAL FOR CHAPTER OPERATIONS

ACRONYMS AND ABBREVIATIONS USED IN ASHRAE

AAAS	American Association for the Advancement of Science
AABC	Associated Air Balance Council
AACE	American Association of Cost Engineers
AAES	American Association of Engineering Societies
AAF	Argentina Association of Refrigeration
AALA	American Association for Laboratory Accreditation
AASA	ASHRAE Associate Society Alliance
ABBE	Advisory Board on Built Environment
ABET	Accreditation Board for Engineering and Technology
ABMA	American Boiler Manufacturers Association
ABOK	Russian Association of Engineers in Heating, Ventilation, Air-Conditioning, Heat Supply and Building Thermal Physics
ABRAVA	Brazilian Association of Refrigeration, Air-Conditioning, Ventilating and Water Treatment
AC	Accreditation Activities Committee
ACAIRE	Colombian Association of Air-Conditioning & Refrigeration
ACCA	Air Conditioning Contractors of America
ACEC	American Consulting Engineers Council
ACGIH	American Conference of Governmental Industrial Hygienists
ACI	American Concrete Institute
ACS	American Chemical Society
ACTECIR	Catalan Association of Energy, Air-Conditioning and Refrigeration Engineers (Spain)
ADC	Air Diffusion Council
ADI	Air Distributing Institute
AEDG	Advanced Energy Design Guide
AEE	Association of Energy Engineers
AEIC	Association of Edison Illuminating Companies
AFFI	American Frozen Food Institute
AGA	American Gas Association
AGCA	Associated General Contractors of America
AGFR	Romanian Association for Heating, Refrigerating and Air-Conditioning
AHAM	Association of Home Appliance Manufacturers
AHGWTEL	Latvian Association of Heat, Gas & Water Technology Engineers
AHMA	American Hotel-Hotel Association
AHR	International Air Conditioning, Heating, Refrigerating Exposition
AI	Action item
AIA	American Institute of Architects
AID	Airborne Infectious Disease
AICARR	Italian Association of Air-Conditioning, Heating and Refrigeration
AICHe	American Institute of Chemical Engineers
AICVF	French Association of Heating & Ventilation Engineers
AIHA	American Industrial Hygiene Association
AIP	American Institute of Physics
AIPE	American Institute of Plant Engineers
AIRAH	Australian Institute of Refrigeration, Air Conditioning and Heating
ALA	American Lighting Association
ALI	ASHRAE Learning Institute
AMCA	Air Movement and Control Association
AMERIC	Mexican Association of Companies in the Industry of Building Installations
AMORTS	Assistant Manager of Research and Technical Services
ANMC	American National Metric Council

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ANS	American Nuclear Society
ANS	American National Standard
ANSI	American National Standards Institute
APC	ASHRAE Program Committee
APEM	Association of Professional Energy Managers
API	American Petroleum Institute
APPA	Association of Higher Education Facilities Officers
ARC	ASHRAE Research Canada
ARC	Assistant Regional Chair
ARCFCP	The Alliance for Responsible CFC Policy
ARI	Air-Conditioning and Refrigeration Institute
ARW	Air-Conditioning and Refrigeration Wholesalers Association
ASA	Acoustical Society of America
ASAE	American Society of Agricultural Engineers
ASAE	American Society of Association Executives
ASBRAV	South Brazilian of Refrigeration, Air Conditioning, Heating and Ventilation Association
ASCE	American Society of Civil Engineers
ASEE	American Society for Engineering Education
ASES	American Solar Energy Society
ASHE	American Society for Healthcare Engineering of the American Hospital Association
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASQC	American Society for Quality Control
ASSE	American Society of Safety Engineers
ASTE	American Society of Test Engineers
ASURVAC	Uruguay Association of Refrigeration, Ventilation, Air Conditioning and Heating
ATECYR	Spanish Technical Association of Air Conditioning and Refrigeration
ATEAAR	Ecuadorian Technical Association of Conditioned Air and Refrigeration
ATIC	Royal Association of Heating, Ventilation, Air Conditioning and Related Systems
AWMA	Air and Waste Management Association
AWWA	American Water Works Association
BACnet	Building Automation and Control Networks
BAR	Board-Approved Rules
BCA	Building and Construction Authority of Singapore
BCAP	Building Codes Assistance Project
BEPS	Building Energy Performance Standards
bEQ	Building Energy Quotient
BERD	Office of Building Energy Research and Development (DOE)
BLAST	Building Load Analysis and System Thermodynamics (computer program)
BNL	Brookhaven National Laboratory
BOCA	Building Officials and Code Administrators International, Inc.
BOD	Board of Directors
BOD/ExCom	Board of Directors/Executive Committee
BOG	Board of Governors
BOMA	Building Owners and Managers Association International
BSI	British Standards Institute
BSRIA	Building Services Research and Information Association
BTECC	Building Thermal Envelope Coordinating Council
CABO	Council of American Building Officials
CAE	Certified Association Executive
CaGBC	Canada Green Building Council
CAMEE	Council of American Mechanical and Electrical Engineers

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CAR	Chinese Association of Refrigeration
CARI	Council of Air Conditioning and Refrigeration Industry
CBL	Charter and Bylaws Committee
CBT	Center for Building Technology (NIST)
CCHVAC	China Committee of Heating, Ventilating and Air Conditioning
CCI	Clinton Climate Initiative
CD	Course Development Committee
CDC	Centers for Disease Control (HHS)
CEC	Conferences and Expositions Committee
CEC	California Energy Commission
CEN	Committee for European Normalization
CESSSE	Council of Engineering and Scientific Society Executives
CFA	Consumer Federation of America
CFC	Chlorofluorocarbon(s)
CFR	Center for Fire Research (NIST)
CGA	Canadian Gas Association
CIB	International Council for Building Research, Studies and Documentation
CIBSE	Chartered Institution of Building Services Engineers
CII	Confederation of Indian Industry
CIS	Code Interaction Subcommittee (of Standards Committee)
CMA	Chemical Manufacturers Association
CMES	Mexico Green Building Council
CNV	Chair Not Voting
CO	Coordinating Officer
COF	College of Fellows
CP	Chapter Programs Committee
CPSC	Consumer Product Safety Commission
CRC	Chapters Regional Conference
CRMA	Commercial Refrigerator Manufacturers Association
CSA	Canadian Standards Association
CSA	Chapter Service Award
CSB	Construction Standards Board, ANSI
CSI	Construction Specifications Institute
CSME	Canadian Society for Mechanical Engineering
CSO	Chief Staff Officer
CTI	Cooling Tower Institute
CTTC	Chapter Technology Transfer Committee (or CTT)
CV	Chair Voting
DAL	Director-at-Large
DANVAK	Danish Society of Heating, Ventilating and Air-Conditioning Engineers
DASH	Database for Analyzing Sustainable and High Performance Buildings
DHC	District Heating and Cooling
DHW	Domestic Hot Water
DITAR	Cooling and Air Conditioning Technical Division (Chile)
DKV	German Association of Refrigeration and Air-Conditioning Engineers
DL	Distinguished Lecturers
DLP	Distinguished Lecturer Program
DMG	Data Management Group
DOC	U. S. Department of Commerce
DOD	U. S. Department of Defense
DOE	U. S. Department of Energy
DOE 2	A computer program for building energy analysis

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DOT	Director of Technology
DOT	Department of Transportation
DRC	Director and Regional Chairman
DSA	Distinguished Service Award
ECC	Electronic Communications Committee
EEl	Edison Electric Institute
EESB	Electrical and Electronic Standards Board, ANSI
EFRIARC	Portuguese Association of Refrigerating and Air-Conditioning Engineers
EH	Environmental Health Committee (also EHC)
EIA	Energy Information Administration (DOE)
EPA	U.S. Environmental Protection Agency
EPRI	Electric Power Research Institute
ESA	Exceptional Service Award
ESME	Egyptian Society of Mechanical Engineers
ESP	Energy Simulation Program
ETE	Epitestudományi Egyesület (Scientific Society for Building, Hungary)
ETL	ETL Testing Laboratories
ETS	Environmental Tobacco Smoke
EUROVENT/ CECOMAF	European Committee of Air Handling and Air Conditioning Equipment Manufacturers and the European Committee of Manufacturers of Refrigeration Equipment
EUI	Energy Use Index
EX	Executive Committee
EX-O	Ex-Officio Member from the Board of Directors
ExCom	Executive Committee (also EX)
EXER	Exergy Analysis for Sustainable Buildings
FASHRAE	ASHRAE Fellow
FGI	Facility Guidelines Institute
FI	Finance Committee
FI	Formaldehyde Institute
FINVAC	Finnish Association of Heating, Ventilating, and Air-Conditioning Societies
FMI	Food Marketing Institute
FMRC	Factory Mutual Research Corporation
FTC	Federal Trade Commission
FY	Fiscal Year
FYE	Fiscal Year Ending
GAMA	Gas Appliance Manufacturers Association
GAME	Greening ASHRAE Meetings and Expositions
GATT	General Agreement on Tariffs and Trade
GBA	Green Building Alliance
GBCB	Green Building Council Brasil
GBI	Green Building Initiative
GCCA	Global Cold Chain Alliance
GEMS	Generalized Engineering Modeling and Simulation
GIA	Grant-in-Aid
GMA	Grocery Manufacturers of America
GOST	USSR Standards Institute
GPC	Guideline Project Committee
GRAS	Generally Recognized as Safe (FDA/HHS)
GRI	Gas Research Institute
GRP	Government Co-sponsored Research Project (archaic)
GSA	U.S. General Services Administration
GSAE	Georgia Society of Association Executives

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GSPE	Georgia Society of Professional Engineers
GWP	Global Warming Potential
H&A	Honors and Awards Committee
HB	Handbook Committee
HBDP	High-Performance Building Design Professional
HCFC	Hydrofluorocarbon
HFDP	Healthcare Facility Design Professional
HI	Historical Committee
HI	Hydronics Institute
HO	Honors and Awards Committee (also H&A)
HPAC	Heating/Piping/Air Conditioning (periodical)
HRAI	Heating, Refrigerating and Air-Conditioning Institute of Canada
HUD	U. S. Department of Housing and Urban Development
HVAC	Heating, Ventilating and Air-Conditioning
HVI	Home Ventilating Institute
IACSC	International Association of Cold Storage Contractors
IAPMO	International Association of Plumbing and Mechanical Officials
IAQ	Indoor Air Quality
IARW	International Association of Refrigeration Warehouses
IC	International Committee
ICC	International Code Council
ICBO	International Conference of Building Officials
ICHMT	International Centre for Heat and Mass Transfer
ICSP	Interagency Committee for Standardization Policy
ICVAC	The Icelandic Heating, Ventilating and Sanitary Association
IDEA	International District Energy Association
IEC	International Electrotechnical Commission
IEC	International Exposition Company
IEEE	Institute of Electrical and Electronics Engineers
IEQ	Indoor Environmental Quality
IESNA	Illuminating Engineering Society of North America
IFMA	International Facility Management Association
IGBC	Indian Green Building Council
IHS	Information Handling Services
IIAR	International Institute of Ammonia Refrigeration
IIE	Institute of Industrial Engineers
IIR	International Institute of Refrigeration
ILM	International Liaison Member
ILS	Intersociety Liaison Subcommittee (of Standards Committee)
IMACA	International Mobile Air Conditioning Association
IN	International Committee
IOR	Institute of Refrigeration (UK)
I-P	Inch-Pound
IRHACE	Institute of Refrigeration, Heating and Air-Conditioning Engineers of New Zealand, Inc.
ISA	Instrument Society of America
ISES	International Solar Energy Society
ISHRAE	Indian Society of Heating, Refrigerating and Air-Conditioning Engineers
ISHRAE	Israel Society of Heating, Refrigeration & Air-Conditioning Engineers
ISIAQ	International Society of Indoor Air Quality and Climate
ISO	International Organization for Standardization
ISO/DIS	ISO/Draft International Standards
ITCC	Interstate Truckload Carriers Conference

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JAR	Japanese Association of Refrigeration
JE	Joint ASHRAE/AIR Exposition Policy Committee
JF	Justice Facilities
JR	Journal/Insights Committee
JRAIA	Japanese Refrigeration and Air Conditioning Industry Association
JSRAE	Japan Society of Refrigeration and Air-Conditioning Engineers
KGH	Serbian Society of Heating, Ventilating, Air-Conditioning, and Refrigerating
KNVVK	Royal Dutch Association of Refrigeration
LANL	Los Alamos National Laboratory
LBNL	Lawrence Berkeley National Laboratory
LEED	Leadership in Energy and Environmental Design
LITES	Lithuanian Thermotechnical Engineers' Society
LIVI	Society of Building Services and Energy Engineers
LMC	Life Members Club
LRRP	Long Range Research Plan
LYBUNT	Last Year, But Not This (Year), (fundraising term)
MA	Meetings Arrangements Committee
MMACS	Mobile Air Conditioning Society
MAP	Manual of Acceptable Practices
MBO	Management by Objective
MC	Members Council
MCAA	Mechanical Contractors Association of America
MCO	Manual for Chapter Operations
MHI	Manufactured Housing Institute
MIMA	Mineral Insulation Manufacturers Association
MOP	Manual of Procedures
MOR	Manager of Research
MORP	Manual of Recommended Practice
MOS	Manager of Standards
MPC	Membership Promotion Committee (or MP)
MPAG	Manual for Processing ASHRAE Guidelines
MPAS	Manual for Processing ASHRAE Standards
MPS	Minimum Property Standards
MSCA	Mechanical Service Contractors of America
MTS	Manager of Technical Services
MVMA	Motor Vehicle Manufacturers Association of the United States
NAA	National Aeronautics Association
NAC	National Asbestos Council
NACE	National Association of Corrosion Engineers
NACME	National Action Council for Minorities in Engineering
NADCA	National Air Duct Cleaners Association
NAE	National Academy of Engineering of the United States of America
NAFA	National Air Filtration Association
NAHB	National Association of Home Builders of the United States
NAIMA	North American Insulation Manufacturers Association
NAM	National Association of Manufacturers
NAPHCC	National Association of Plumbing-Heating-Cooling Contractors
NAS	National Academy of Sciences
NATE	North American Technician Excellence, Inc.
NCEES	National Council of Examiners for Engineering and Surveying
NCI	National Cancer Institute
NCIAQ	National Coalition on Indoor Air Quality

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NCMA	National Concrete Masonry Association
NCS/BCS	National Conference of States on Building Codes and Standards
NEBB	National Environmental Balancing Bureau
NEC	National Electrical Code
NEHA	National Environmental Health Association
NEMA	National Electrical Manufacturers Association
NFI	National Fisheries Institute
NFPA	National Fire Protection Association
NGWA	National Ground Water Association
NHAWA	North American Heating and Air Conditioning Wholesalers Association
NIBS	National Institute of Building Sciences
NIEHS	National Institute of Environmental Health Science
NIOSH	National Institute for Occupational Safety and Health (Centers for Disease Control, HHS)
NIST	National Institute for Standards and Technology (U.S. Department of Commerce)
NO	Nominating Committee
NOFR	Notice of Final Rulemaking
NOPR	Notice of Proposed Rulemaking
NORVAC	Norwegian Association of Heating Ventilating & Sanitary Engineers (also, NORSK VVS)
NPA	National Particleboard Association
NPP	National Program Plan (for Building Thermal Envelope Systems)
NRCA	National Roofing Contractors Association
NREL	National Renewable Energy Laboratory
NSAE	National Society of Architectural Engineers
NSPE	National Society of Professional Engineers
NTIS	National Technical Information Service
NWS	National Weather Service (NOAA, Commerce)
ODS	Ozone Depleting Substances
OEA	Order of Engineers and Architects-Beirut
OEA	Order of Engineers and Architects-Tripoli
OEKKV	Austrian Air Conditioning and Refrigeration Society
OFAC	U.S. Department of Treasury's Office of Foreign Assets Control
ORNL	Oak Ridge National Laboratory
OSHA	Occupational Safety and Health Administration (Labor)
PAGA	Procedures for ASHRAE Guidelines Actions
PAOE	Presidential Award of Excellence
PASA	Procedures for ASHRAE Standards Actions Under the ANSI Organization Method
PC	Publishing Council
PD	Position Document
PDC	Professional Development Committee
PDH	Professional Development Hours
PDS	Professional Development Seminars
PE	President-Elect
PE	President-Elect Advisory Committee (also PEAC)
PE	Professional Engineer (registered)
PEAC	President-Elect Advisory Committee
PERSI	Practice, Education, Research for Sustainable Infrastructure
PES	Project Evaluation Subcommittee
PIE	Practicing Institute of Engineering
PL	ASHRAE Planning Committee (also PLC)
PMS	Project Monitoring Subcommittee (for research projects)
PMSC	Project Monitoring Subcommittee Chairman
PNNL	Pacific Northwest National Laboratories (Battelle)

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PO	Purchase Order
PPIS	Planning, Policy and Interpretations Subcommittee (of Standards Committee)
PP/S	Position Paper/Statement
PR	Society Programs Committee
PSVARE	Philippine Society of Ventilating, Air-Conditioning and Refrigerating Engineers
PZITS	Polish Association of Sanitary Engineers and Technicians
RAC	Research Administration Committee
RAL	Region-At-Large
RAN	Refrigeration Association of the Netherlands
RAP	Research Advisory Panel (of Research Administration Committee)
RAS	Research Activities Subcommittee (of Research Administration Committee)
RE	Refrigeration Committee (or REF)
RECC	Regional Electronic Communications Chair
RETA	Refrigerating Engineers and Technicians Association
REHVA	Federation of European Heating and Air Conditioning Associations
RFP	Request for proposal
RAOM	Regional Award of Merit
ROB	Rules of the Board
RP	Research Project (contracted)
RPC	Research Promotion Committee (or RP)
RPS	Research Planning Subcommittee (of Research Administration Committee)
RSES	Refrigeration Service Engineers Society
RTAR	Research Topic Acceptance Request
RVC	Regional Vice Chair
SAC	Student Activities Committee (or SA)
SAE	Society of Automotive Engineers
SAIRAC	South African Institute of Refrigeration and Air-Conditioning
SAREK	Society of Air-Conditioning and Refrigerating Engineers of Korea
SBCCI	Southern Building Code Congress International
SBL	Society Bylaws
SEAP	Simplified Energy Analysis Procedure
SEIA	Solar Energy Industries Association
SEREF	Solar Energy Research and Education Foundation
SES	Standards Engineering Society
SFPE	Society of Fire Protection Engineers
SH	Section Head (of Research Administration Committee)
SHASE	Society of Heating, Air-Conditioning & Sanitary Engineers of Japan
SI	International System of Units
SITHOK	Slovenian Society of Refrigerating, Heating and Air-Conditioning Engineers
SLI	Staff Liaison
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SMWIA	Sheet Metal Workers International Association
SNC	Society Nominating Committee
SOEH	Society for Occupational and Environmental Health
SP	Special Project
SP	Special Publications Committee
SPC	Standard Project Committee
SPLS	Standards Project Liaison Subcommittee (of Standards Committee)
SPO	Strategic Plan Objective
SRC	Society Rules Committee
SRC	Sub-Regional Chair
SRCC	Solar Rating and Certification Corporation (see SEIA)

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SRP	Strategic Research Plan
SSPC	Standing Standard Project Committee
SSTP	Slovak Society of environmental Technology
ST	Standards Committee (also StdC)
StdC/ExCom	Standards Committee/Executive Committee
STP	Society of Environmental Engineering
SVOC	Semi-Volatile Organic Compound
SWEDVAC	Swedish Society of Heating and Air-Conditioning Engineers
SWKI	Swiss Association of Heating and Air Conditioning Engineers
SY	Society Year
SYBUNT	Some Years, But Not This (Year), (fundraising term)
TAC	Technical Activities Committee
TAG	(See US/TAG)
TAPPI	Technical Association of the Pulp and Paper Industry
TC	Technical Committee
TC	Technology Council
TE	Technical, Energy and Government Activities Committee (also TEGA)
TEC	Technical Evaluation Committee
TECFRIO	Asociacion Nacional Capitulo Tecnico de ASOFRIO
TEE	Technical Chamber of Greece
TEGA	Technical, Energy and Government Activities Committee
TG	Task Group
TIMA	Thermal Insulation Manufacturers Association
TISP	The Infrastructure Security Partnership
TPS	Title, Purpose, and Scope
TRACE	Trane Air Conditioning Economics (computer program for building energy consumption and life cost analysis)
TRG	Technical Resource Group
TRP	Tentative Research Project
TRRF	The Refrigeration Research Foundation
TTMA	Truck Trailer Manufacturing Association
TTMD	Turkish Society of Heating, Ventilating, Air Conditioning and Sanitary Engineers
TVVL	Dutch Society for Building Services
UBC	Uniform Building Code
UCA	Unvented Combustion Appliances
UFAD	Underfloor Air Distribution
UFFI	Urea-Formaldehyde Foam Insulation
UFFVA	United Fresh Fruit & Vegetable Association
UL	Underwriters Laboratories, Inc.
UNEP	United Nations Environment Program
URP	Unsolicited Research Proposal
USACE	U.S. Army Corps of Engineers
USGBC	United States Green Building Council
USMA	United States Metric Association
USNC/CIB	U.S. National Committee for the International Council for Building Research, Studies and Documentation
USNC/CIE	U.S. National Committee of the International Commission on Illumination
USNC/IIR	U.S. National Committee for the International Institute of Refrigeration
USNC/WEC	U.S. National Committee of the World Energy Conference
US/TAG	U.S. Technical Advisory Group (for ISO or IEC standards)
UV	Ultra Violet
VRF	Variable Refrigerant Flow

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VVS	Swedish Association of Heating and Ventilating Engineers
WATtec	An annual technical conference in Knoxville, TN
WHO	World Health Organization
WS	Work Statement
WYEC	Weather Year for Energy Calculations
YEA	Young Engineers in ASHRAE
YRC	Young Engineers in ASHRAE Regional Coordinator