

Information Management Services

**ABBREVIATIONS, ACRONYMS, AND INITIALISMS  
FREQUENTLY USED BY  
MARTIN MARIETTA ENERGY SYSTEMS, INC.**

Second Edition  
(Supersedes ES/IRA-1)

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Date published—September 1994

Prepared by  
OAK RIDGE NATIONAL LABORATORY  
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MARTIN MARIETTA ENERGY SYSTEMS, INC.  
for the  
U.S. DEPARTMENT OF ENERGY  
under contract DE-AC05-84OR21400

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## ACKNOWLEDGMENTS

Many editors of the Information Management Services organization and members of several other divisions contributed to the list of abbreviations, acronyms, and initialisms contained in this report. Unfortunately, the contributors are too numerous to mention here lest some be accidentally omitted—but their efforts are greatly appreciated. It is with much gratitude that those who encouraged publication of this list are acknowledged; again, they are too numerous to mention. Much appreciation is extended to the editors who reviewed sections of the report: Gail Anderson, Janice Asher, Kathryn King-Jones, Sharon McConathy, Pam Shamblin, and Anne Travis. Thanks are due Lisa Sellers, electronic publisher, who assisted in making the review changes and additions; and Janice Asher, who proofread the changes and additions and performed the general edit. W. W. Koch of the Instrumentation and Controls Division assisted with checking the chemical abbreviations, for which we are grateful.



## ABSTRACT

Guidelines are given for using abbreviations, acronyms, and initialisms (AAIs) in documents prepared by U.S. Department of Energy facilities managed by Martin Marietta Energy Systems, Inc., in Oak Ridge, Tennessee. The more than 10,000 AAIs listed represent only a small portion of those found in recent documents prepared by contributing editors of the Information Management Services organization of Oak Ridge National Laboratory, the Oak Ridge K-25 Site, and the Oak Ridge Y-12 Plant. This document expands on AAIs listed in the *Document Preparation Guide* (ORNL/IRO-1, Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory, Oak Ridge, Tennessee, 1989) and is intended as a companion document.

## 1. INTRODUCTION

More than 10,000 abbreviations, acronyms, and initialisms (AAIs) are listed alphabetically and identified from recent documents prepared by contributing editors of the Information Management Services (IMS) organization of Oak Ridge National Laboratory, the Oak Ridge K-25 Site, and the Oak Ridge Y-12 Plant in Oak Ridge, Tennessee.

### 1.1 DEFINITIONS

- An **abbreviation** is a shortened form of a word or a phrase used in place of the word or phrase in which **only the letter(s) are pronounced** (e.g., *NRC*). An abbreviation may be formed from just the initial letter of a word (e.g., *J* is the abbreviation of *joule*); some of the initial letters of a phrase (e.g., *UT* is the abbreviation of *The University of Tennessee*); or all of the initial letters of a phrase (e.g., *TVA* is the abbreviation of *Tennessee Valley Authority*).
- An **acronym** is a **pronounceable word** formed from more than just the initial letters of each of the successive parts or major parts of a compound term (e.g., *radar* is the acronym of *radio detecting and ranging*).
- An **initialism** is an acronym (**pronounceable word**) formed from only the initial letters of the major words in a compound term (e.g., *NASA* is the initialism of *National Aeronautics and Space Administration*).

### 1.2 PURPOSE

AAIs are used in scientific and technical reports to save time and space; some are used also in correspondence and in speaking.

This document, which expands on the AAIs included in the *Document Preparation Guide (DPG)*,<sup>1</sup> should be of particular use to secretaries, authors, and editors. For detailed information on the use of AAIs in correspondence, consult Sect. III of the *Energy Systems Office Guide*.<sup>2</sup> Although many AAIs are well known, not all can be remembered by authors and editors. Thus, the list in Sect. 4 of this document is intended as a time-saving, single-source reference to replace many existing general and specialized lists. Some published lists still may be required (but less frequently) because not all AAIs used in our work are included in this listing (some have not yet been used, some have not been provided for this compilation, and short deadlines sometimes prevent our adding newly encountered AAIs). Because new terminology is required by—and consequent new AAIs are created for—each new and ongoing project, authors and editors are encouraged to provide lists to the author of this document for inclusion in updates.

Authors and editors must take care in correctly defining those AAIs that have more than one definition. Multiple definitions of a single entry are arranged alphabetically and are also numbered to stress that more than one definition is included. Cross-references

are provided when more than one AAI is used for the same definition, and the form recommended by the IMS organization for use in Energy Systems correspondence and documents is indicated.

Some AAIs should not be used in text but can be used in bibliographies, lists, figures, tables, footnotes, and references. Although some such exceptions are noted in this document, the *DPG*<sup>1</sup> should be consulted for further guidance concerning where the use of AAIs is appropriate in documents. For appropriate use of AAIs in correspondence, consult Sect. III of the *Energy Systems Office Guide*.<sup>2</sup>

## 2. GUIDELINES

### 2.1 GENERAL

AAIs (other than units of measurement, time, and quantity) must be defined the first time they are used in a document or a presentation, and they should not be used if they are not used again in the document. Any AAIs defined in an abstract or executive summary should be redefined the first time they are used in the body of the report. Although defining an AAI only one time is usually adequate for the entire document, AAIs may be redefined the first time they are used in each chapter or section, and those reused much further into the document may be redefined to refresh the reader's memory.

AAIs (other than units of measurement, time, and quantity) used in figures and tables must be identified even though they are defined in the text because each figure and table must be self-contained. AAIs must be spelled out in figure captions and table titles (or identified if used more than once in the same figure or table).

When many AAIs are used, it is recommended that a list of AAIs be included in the front matter of a document. Although such a list makes redefining unnecessary in the text, redefining may be helpful to the reader and, as stated above, is required in figures and tables.

The use of AAIs is discouraged in document titles and is discouraged but acceptable in text headings. Previously unidentified AAIs in headings should be identified in the text immediately following the heading.

AAIs other than those of chemical elements, compounds, and isotopes can begin sentences, as in this sentence.

To avoid confusion, identical AAIs should not be used for more than one entity in the same document (e.g., *NRC* for both *Nuclear Regulatory Commission* and *National Research Council*).

### 2.2 PERIODS

Periods are not used with most AAIs except to avoid confusing AAIs with words [e.g., a period is used with *in.* (the abbreviation of the word *inch*) to prevent confusion with the word *in*]. Periods are used with most abbreviations of titles of persons. No space should follow internal periods in AAIs (e.g., *A.M.*, *Ph.D.*) except following each initial of persons (e.g., *C. Jones*, *C. D. Jones*, *C. D. E. Jones*).

### 2.3 UNITS OF MEASUREMENT, TIME, AND QUANTITY

Abbreviations of units of measurement, time, and quantity are used only when preceded by a number (e.g., *several volts* but *6 V*). A space is required between the number and the unit or symbol except with millimeters used with weapons and ammunition, degrees, percentages, dollars, cents, thousand (*K*), and million (*M*)



(e.g., 22mm ammunition, 15°C, 45° angle, 50%, \$500, 4¢, \$2K, and \$4M). A degree sign is not used with kelvins, and a space is required (e.g., 200 K). The list in Sect. 4 gives correct standard metric units for converting English units.

Numbers with abbreviated units of measurement, time, and quantity used as unit modifiers (compound adjectives) preceding a noun are hyphenated the same as if the unit were spelled out (e.g., 5-m length, 10-cm width, 6-cm-diam hole).

Even though abbreviations of units of measurement, time, and quantity are shown in the listings in Sects. 4 and 5, they do *not* need to be defined at first or other usage.

## 2.4 ARTICLES

Depending upon author/editor preference, traditional usage, and flow, **AAIs** used as **nouns** may or may not be preceded with articles [i.e., *a*, *an*, or *the* (e.g., *NRC* or *the NRC*)]. The article (i.e., *a* or *an*) preceding a number and abbreviated unit of measurement, time, or quantity used as a compound adjective is determined by the sound of the number (e.g., *an 11-m pipe*, *a 12-L capacity*). When spoken, units are pronounced in full [e.g., *an eleven-meter (not eleven-m) pipe*, *a twelve-liter (not twelve-L) capacity*].

**Acronyms and initialisms** (remember that they are pronounced as words) used as **adjectives** may be preceded with articles (e.g., *the KATIE project*). The choice of indefinite article *a* or *an* is determined by the **sound** (not the spelling) of the acronym or initialism.

- **Acronyms and initialisms** that begin with a consonant sound (e.g., *a LION feature*) or an aspirated *h* sound as in *heavy* should be preceded with *a* (e.g., *a HAZWRAP project*).
- **Acronyms and initialisms** that begin with a vowel sound should be preceded with *an* except those beginning with *u* pronounced as in *union* (e.g., *a UNICOR job*), which should be preceded with *a*.

**Abbreviations** (remember that they are pronounced as letters, not as words) used as **adjectives** may be preceded with articles (e.g., *an NRC guideline*). The choice of indefinite article *a* or *an* is determined by the **sound** of the first letter of the abbreviation.

- **Abbreviations** that begin with *b*, *c*, *d*, *g*, *j*, *k*, *p*, *q*, *t*, *u*, *w*, *y*, or *z* are preceded with *a* (e.g., *a PBR advantage*).
- **Abbreviations** that begin with *a*, *e*, *f*, *h*, *i*, *l*, *m*, *n*, *o*, *r*, *s*, or *x* are preceded with *an* (e.g., *an NRC requirement*).

## 2.5 PLURALS

Plurals of abbreviations with more than one letter and **AAIs** without periods are formed by adding the lowercase letter *s* (e.g., *AAIs*, *SARs*). Plurals of **AAIs** with periods

and single-letter abbreviations are formed by adding an apostrophe and the lowercase letter *s* (e.g., *Ph.D.'s*, *A's*). Abbreviations of units of measurement, time, and quantity, however, should not be plural (e.g., *200 V*, *100 psi*).

## 2.6 POSSESSIVES

Possessives of AAIs with or without periods are formed by adding an apostrophe and the lowercase letter *s* (e.g., *ORNL's funding*).

## 2.7 HYPHENATION

AAIs combined with one or more words and numbers combined with units of measurement, time, and quantity to form unit modifiers (compound adjectives) preceding a noun are hyphenated as if the AAIs were spelled out (e.g., *DOE-funded facilities*, *50-km radius*, *12-m-long cable*, *9-mm-diam hole*).

## 2.8 CHEMICAL ELEMENTS

The full name of a complex chemical substance should be spelled out the first time it is used unless it is well known.

Chemical elements should be spelled out unless three or more are used together (e.g., *uranium and americium* or *U, Am, and Tc*).

Sentences should not begin with abbreviated chemical elements (element symbols) (e.g., *Uranium, americium, and technetium are used* or *The U, Am, and Tc contents are measured carefully*).

In abbreviated isotopes, superscript mass numbers should precede element symbols (e.g., *uranium-235* should be abbreviated <sup>235</sup>*U*).

## 2.9 PROPER NAMES

An abbreviated personal title is usually followed by a period. In our documents, however, social and academic titles are not used in text, references, or lists. In other writing (e.g., correspondence), abbreviations such as *Mr.*, *Mrs.*, *Ms.*, *Prof.*, and *Dr.* should be used only when they precede proper names (i.e., *last name, full name, or initials and last name*).

Abbreviations such as *Rep.* and *Sen.* should be used only when the given name(s) and last name or initial(s) and last name follow the title (e.g., *Sen. John Doe* or *Sen. J. D. Doe*). The title should be spelled out if only the last name is used (e.g., *Senator Doe*).

Military ranks or rates should be abbreviated only when the given name(s) and last name or initial(s) and last name follow the title (e.g., *Gen. James Smith* or

*Gen. J. T. Smith*). The rate or rank should be spelled out if only the last name is used (e.g., *General Smith*).

*Junior* and *Senior* should be abbreviated, preceded with a comma, and followed with a period (and comma if followed by text) (e.g., *Jim Brown, Jr., and Joe Black, Sr., are the authors* or *The authors are Jim Brown, Jr., and Joe Black, Sr.*).

Names such as *George*, *James*, and *William* should **not** be abbreviated (**not** *Geo.*, *Js.*, and *Wm.*).

The names of months should be spelled out in text whether or not they are followed by days of the month (e.g., *January 1991* and *January 1, 1991*); however, they should be abbreviated in bibliographies, lists, figures, footnotes, and tables when the day of the month is included (e.g., *Jan. 1, 1991*) but must be spelled out if the day is not included (e.g., *January 1991*). Days of the week should be spelled out in text (e.g., *Monday*) but may be abbreviated in figures and tables (e.g., *Mon.*).

In text, most words in proper names of places such as *Avenue*, *Center*, *Fort*, *Road*, *Saint*, and *Street* should be spelled out (e.g., *Fort Lauderdale*). In figures, footnotes, and tables, they should be abbreviated (e.g., *Ft. Lauderdale*).

Directional notations should follow a comma after street names and should be abbreviated without periods (e.g., *Avenue, SE*; *Street, NW*). Some authorities recommend spelling out cardinal directions (i.e., *North*, *South*, *East*, *West*) and abbreviating intercardinal directions (i.e., *NE*, *SE*, *SW*, *NW*).

Country names (for which abbreviations have been established) used as adjectives should be abbreviated (e.g., *U.S. industry*). Country names used as nouns should be spelled out (e.g., *industry in the United States*).

State names are spelled out in text. In bibliographies, figures, footnotes, lists, and tables, state names should be abbreviated in the customary way if they follow a city name (e.g., *Oak Ridge, Tenn.*) In mailing addresses such as in distribution lists, the two-capital-letter U.S. Postal Service state abbreviations should be used without periods (e.g., *Oak Ridge, TN 37831-6285*). No comma should precede the ZIP code.

In text, names of establishments should be spelled out or abbreviated exactly as the establishments spell their own names (e.g., *Brothers* or *Bros.*). Most words should be spelled out in text (e.g., *Company*, *Corporation*, *Laboratory*), but abbreviations *Inc.* and *Ltd.* should be used even in text; *Inc.* should be preceded with and followed by a comma, but *Ltd.* requires no comma (e.g., *Martin Marietta Energy Systems, Inc., is a participant, and Atomic Energy of Canada Ltd. is hosting the conference.*).

Recommended abbreviations for bibliographies, figures, footnotes, lists, and tables are given in Appendix C of the DPG.<sup>1</sup>

### 3. REFERENCES

1. *Document Preparation Guide*, ORNL/IRO-1, Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory, Oak Ridge, Tenn., 1989.
2. *Energy Systems Office Guide*, Martin Marietta Energy Systems, Inc., Oak Ridge, Tenn., 1989.



#### **4. ABBREVIATIONS, ACRONYMS, AND INITIALISMS**



a	amorphous
A	1. ampere
	2. mass number [mass number = atomic number + neutron number ( $A = Z + N$ )]
Å	angstrom [convert to SI: meter (m)]
A.B.	Bachelor of Arts (also B.A.)
a.m.	ante meridiem (before noon)
A.M.	Master of Arts (also M.A.)
A-E	architect-engineer (see A/E)
A-h	ampere-hour
A-O	acoustic-optic
a-Si	amorphous silicon
A-T	ampere-turns
A/C	1. air conditioner/conditioning (also AC)
	2. aircraft
A/D	analog-to-digital
A/D/O	analog/digital/optical
A/E	architect/engineer (see A-E)
A/M	amperes per meter
A/WOMS	Account/Work Order Master (Y-12)
A&E	architect and engineer
A <sup>2</sup> R <sup>2</sup>	Argonne Advanced Research Reactor
a <sub>c</sub>	arrested crack length
aA	abampere [convert to SI: ampere (A)]
AA	1. affirmative action
	2. Aluminum Association
	3. Amarillo Area Office (DOE)
	4. atomic absorption
	5. atomic absorption spectroscopy
AA/EEO	Affirmative Action/Equal Employment Opportunity
AAA	American Automobile Association
AAAS	American Association for the Advancement of Science
AABB	American Association of Blood Banks
AAC	1. Administrative Advisory Council (ORNL)
	2. Alaskan Air Command
AACC	American Association for Clinical Chemistry
AACE	1. American Association of Cost Engineers
	2. Athens Automation and Control Experiment
AACETS	Athens Automation and Control Experiment Test System
AACG	American Association for Crystal Growth
AACI	Association of American Cancer Institutes
AACR	American Association for Cancer Research
AACTSO	Afro-Academic, Cultural, Technological and Scientific Olympics (NAACP)
AAF	antialiasing filter
AAFES	Army and Air Force Exchange Service
AAG	Association of American Geographers
AAHP	1. air-to-air heat pump
	2. American Academy of Health Physics
AAIs	abbreviations, acronyms, and initialisms
AALAS	American Association of Laboratory Animal Science
AAMRL	Armstrong Aerospace Medical Research Laboratory
AAO	Albuquerque Acquisition Office



AAOM	American Academy of Occupational Medicine
AAP	1. Affirmative Action Program 2. Association of American Publishers
AAPA	American Academy of Physician's Assistants
AAPP	Academic Assessment Placement Program
AAQS	Ambient Air Quality Standards
AAS	1. Adopt-A-School (program) 2. atomic absorption spectrometry/spectrometer/spectroscopy
AAT	Advanced Apprentice Training
AATB	American Association of Tissue Banks
AAU	accelerated aging unit
AAV	Assault Amphibious Vehicle
ABA	1. American Bar Association 2. Architectural Barriers Act of 1968
ABB/CE	Asea Brown Boveri/Combustion Engineering
ABB Atom	Asea Brown Boveri Atom
ABC	aluminum beverage can
ABET	Accrediting Board for Technology
ABF™	Application-By-Forms
ABHP	American Board of Health Physics
ABIH	American Board of Industrial Hygienists
ABL	atmospheric boundary layer
ABM	antiballistic missile
ABMA	American Boiler Manufacturers Association
ABMDATC	Army Ballistic Missile Defense Advanced Technology Center
ABO <sub>3</sub>	perovskite
ABR	advanced breeder reactor
ABRV	advanced ballistic reentry vehicle
abs	absolute
ABS	1. acrylonitrile butadiene-styrene 2. Animal Behavior Society
ABW	Air Base Wing
ABWA	American Business Women's Association
ABWR	advanced boiling water reactor
ac	alternating current
Ac	actinium (element, Z = 89)
AC	1. acceptance criteria 2. air conditioner/conditioning (also A/C) 3. annual cost 4. auxiliary control
AC&W	Aircraft Control and Warning (USAF)
ACA	American Compensation Association
ACAL	administrative control action level
ACAMS	automatic continuous air monitoring system
ACARS	Access Control and Release System
ACC	aquifer contamination control
ACCA	1. Air Conditioning Contractors of America 2. American Cave Conservation Association
ACCOD	Anderson County Center for Occupational Development
ACCR	Aquifer Contamination Control Report
ACD	1. advanced conceptual design 2. Analytical Chemistry Division (ORNL)
ACDA	Arms Control and Disarmament Agency
AcDm	Activities Description Memorandum
ACE	1. annual cooling energy 2. Association of Cost Engineers
ACEC	American Consulting Engineers Council
ACEEE	American Council for an Energy-Efficient Economy

ACES	1. Administrative Computing Environment Strategy
acfm	2. Annual Cycle Energy System actual cubic feet per minute [convert to SI: cubic meters per second ( $\text{m}^3/\text{s}$ ), which is preferred over liters per second ( $\text{L/s}$ ); see restrictions listed under "L" for "liter"]
ACGIH	American Conference of Governmental Industrial Hygienists
ACH	air changes per hour
ACHP	Advisory Council on Historic Preservation
ACHRE	Advisory Committee on Human Radiation Experiments
ACI	1. acceptable chronic intake 2. American Concrete Institute
ACID	Acidification Chemistry Information Data Base (BNL)
ACL	1. administrative control limit 2. Advanced Computing Laboratory (LANL) 3. alternate concentration level/limit 4. annual cooling load
ACM	1. air combat maneuver 2. alternate crisis manager 3. asbestos-containing material 4. Associated Colleges of the Mideast 5. Association for Computing Machinery 6. automated command media 7. avoidable cost manager (ORNL)
ACMV	Advanced Computation and Machine Vision (group of I&C Division)
ACMW	Associated Colleges of the Midwest
ACN	1. activity change notice 2. advance change notice
ACNFS	Advisory Committee on Nuclear Facility Safety/Ahearne Committee
ACO	1. Administrative Consent Order 2. advance change order
ACP	1. Advanced Controls Program (ORNL) 2. American College of Physicians 3. ancillary control process 4. arithmetic control processor
ACPERS	Army Civilian Personnel System
ACR	area control room
ACRD	1. Atmospheric and Climate Research Division 2. automatic control rod drive
ACRDS	automatic control rod drive system
acre	[do not abbreviate this word; convert to SI: square meter ( $\text{m}^2$ )]
acre-ft	acre-foot [convert to SI: cubic meter ( $\text{m}^3$ )]
ACRF	advanced controls research facility
ACRS	Advisory Committee on Reactor Safeguards
ACS	1. Administrative Control for Safety 2. advanced control system 3. American Ceramic Society 4. American Chemical Society 5. American College of Surveyors
ACSA	Association of the Collegiate School of Architecture
ACSC	Administrative Computing Steering Committee (ORNL)
ACSL	Advanced Continuous Simulation Language
ACSM	American Congress of Surveying and Mapping
ACSR	aluminum cable steel reinforced
ACT	Air Combat Tactics
ACTO	1. Advanced Controls Technology Operation (ORNL) 2. Advanced Controls Test Operation (ORNL)
ACTP	Advanced Control Technology Program (ORNL)

ACU	1. air conditioning unit 2. Assault Craft Unit
ACUC	Animal Care and Use Committee (ORNL)
ACWP	actual cost of work performed
ACWR	aircraft wash rack
ACWS	Anderson County Wildlife Sanctuary
ad	adjoint (math)
AD	1. anno Domini 2. associate director
ADA	1. adenosine deaminase 2. American Dietetic Association 3. Americans with Disabilities Act of 1990 4. average daily attendance
ADANS	Airlift Deployment Analysis System (USAF)
ADC	1. administrative dose control 2. Aerospace Defense Command 3. analog-to-digital converter 4. Association of Diving Contractors 5. authorized derivative classifier
ADCIS	Association for Development of Computer Based Instructional Systems
ADCOH	Appalachian Ultradeep Core Hole
ADDNET	Acid Deposition Data Network (EPA)
ADEA	Age Discrimination in Employment Act
ADEC	Advanced Diagnostics Engineering Center (ORNL)
ADERDC	Advanced Diagnostic Engineering Research and Development Center (ORNL)
ADF	U.S. Army Demonstration Facility (see EPDF)
ADI	1. acceptable daily intake 2. Air Defense Initiative 3. AudioDigital Imaging, Inc.
ADIF	all-dielectric interference filter
ADINAT	Automatic Dynamic Incremental Nonlinear Analyses of Temperatures
ADL	Automated Data Library
ADM	Action Description Memorandum
ADP	1. Advanced Development Program 2. Advanced Diverter Program 3. ammonium dihydrogen phosphate 4. automated data processing
ADPA	American Defense Preparedness Association
ADPE	automatic data processing equipment
ADR	alternate dispute resolution
ADRP	Audit-Directed Retrofit Program
ADS	1. activity data sheet 2. Air Defense Squadron 3. automatic depressurization system 4. autonomous docking system
AdServ	Administrative Services
ADT	average daily traffic
ADU	ammonium diuranate
ADVAB	advanced absorber control rod
AE	1. acoustic emission 2. alternative evaluation
AEA	1. American Economic Association 2. American Evaluation Association 3. Atomic Energy Act of 1954 4. Atomic Energy Authority (U.K.)
AEC	1. air emissions control 2. U.S. Atomic Energy Commission (now DOE)
AECB	Atomic Energy Control Board (Canada)

AECL	Atomic Energy of Canada Ltd.
AECM	<i>Atomic Energy Commission Manual</i> (replaced by <i>Department of Energy Manual</i> )
AECPR	AEC procurement regulation
AED	aerodynamic-equivalent diameter
AEDC	Arnold Engineering Development Center
AEDE	annual effective dose equivalent
AEE	adverse environmental effect
AEH	analog electrohydraulic
AEHA	Army Environmental Hygiene Agency
AEIC	Association of Edison Illuminating Companies
AEL	1. Appalachian Educational Laboratory 2. Aquatic Ecology Laboratory (ESD)
AEM	analytical electron microscopy
AEO	<i>Atomic Energy Outlook 1990</i>
AEOC	Alternative Emergency Operations Center
AEOD	Office for Analysis and Evaluation of Operational Data (NRC)
AEP	American Electric Power Energy Services, Inc.
AEP-UEA	Alabama Enrichment Plant, Uranium Enrichment Associates
AEPG	1. Auxiliary Emergency Portable Generator (HFIR) 2. auxiliary emergency power generator
AEPIC	Architectural Engineering Performance Information Center
AER	1. Advance Engineering Release 2. annual environmental report 3. auxiliary equipment room
AERC	Association of Ecosystem Research Centers
AERE	Atomic Energy Research Establishment (U.K.)
AERO	Association for Excellence in Reactor Operations
AES	1. annual energy savings 2. atomic emission spectroscopy 3. Auger electron spectroscopy
AESF	annual energy savings factor
AESG	Analytical Environmental Support Group (K-25)
AET	actual evapotranspiration
AETF	Advanced Equipment Test Facility
AF	adjustment factor
af	audio frequency
AFAA	Air Force Audit Agency
AFAL	Air Force Armament Laboratory
AFAP	artillery-fired atomic projectile
AFAS	Advanced Field Artillery System (U.S. Army)
AFB	Air Force Base
AFBC	atmospheric fluidized-bed combustion
AFBMA	Anti-Friction Bearing Manufacturers Association
AFC	1. alkaline fuel cell 2. automatic frequency control
AFCC	U.S. Air Force Communications Command
AFCEE	Air Force Center for Environmental Excellence
AFCOMS	Air Force Commissary
AFCS	Air Force Communication Service
AFDC	allowance for funds during construction
AFDM	1. ash-free dry mass 2. Auxiliary Floating Drydock Medium
AFDP	Award Fee Determination Plan
AFEAS	Alternative Fluorocarbons Environmental Acceptability Study (industrial consortium of CFC producers)
AFENAC	Air Force Environmental Noise Assessment Center
AFESA	Army Facilities Engineering Support Agency

AFESC	U.S. Air Force Engineering and Service Center
AFETR	Air Force Eastern Test Range
AFFF	aqueous-film-forming foam
AFFTC	Air Force Flight Test Center
AFGL	Air Force Geophysical Laboratory
AFIRM	Air Force Installation Restoration Management Committee
AFL-CIO	American Federation of Labor and Congress of Industrial Organizations
AFLC	U.S. Air Force Logistics Command
AFM	<i>Air Force Manual</i>
AFM	atomic force microscopy
AFML	Air Force Materials Laboratory
AFMTC	Air Force Missile Test Center
AFNEC	Air Force Nuclear Engineering Center (Wright-Patterson Air Force Base)
AFO	Alcohol Fuels Office (DOE)
AFOSH	Air Force Office of Safety and Health
AFOSI	Air Force Office of Special Investigations
AFP	1. Alternative Feedstock Program 2. Approved Funding Program
AFR	1. Air Force Regulation 2. away from reactor
AFRCE	Air Force Regional Civil Engineer
AFRES	U.S. Air Force Reserve
AFRP	Advanced Fuel Recycle Program
AFRRI	Armed Forces Radiobiological Research Institute
AFS	1. Air Force Station 2. American Fisheries Society
AFSC	1. Air Force Systems Command 2. Armed Forces Staff College
AFT	aggressive failure test
AFTAC	Air Force Technical Applications Center
AFTOX	U.S. Air Force Toxic Chemical Dispersion Model
AFUDC	allowance for funds used during construction
AFUP	Alternative Fuels Utilization Program (DOE)
AFW	auxiliary feedwater
AFWAL	Air Force Wright Aeronautical Laboratories
AFWIS	Air Force World Wide Military Command and Control System Information System
AFWL	Air Force Weapons Laboratory
AFWS	auxiliary feedwater system
Ag	silver (element, Z = 47)
AG	adjutant general
AGA	1. acoustic gas analyzer 2. American Gas Association
AGC	1. advanced gas centrifuge 2. automatic gain control
AGCA	Associated General Contractors of America
AGCR	advanced gas-cooled reactor
AGE	aerospace ground equipment
AGHE	absorber-generator heat exchanger
AGI	1. adjusted gross income 2. American Geological Institute
AGL	above ground level
AGMA	American Gear Manufacturers Association
AGMEF	Ana G. Mendez Educational Foundation
AGNS	Allied General Nuclear Services (Barnwell, South Carolina)
AGS	1. American Glovebox Society 2. Alternating Gradient Synchrotron
AGU	American Geophysical Union

AGV	automatic guided vehicle
Ah	ampere-hour (preferred over "amp-hr") [convert to SI: coulomb (C)]
AHAM	Association of Home Appliance Manufacturers
AHC	advanced handling characteristic
AHE	annual heating energy
ASHERA	Asbestos Hazard Emergency Response Act
AHF	anhydrous hydrogen fluoride
AHL	annual heating load
AHMRTS	Automated Hazardous Materials Retrieval and Tracking System
AHP	1. absorption heat pump 2. analytic hierarchy process
AHPS	auxiliary heater power supply
AHPT	absorption heat pump test
AHS	Assured Health Systems
AHU	air handling unit
ai	Airy function (math)
AI	<i>Administration Information</i> (bulletins)
AI	1. air-to-air intercept 2. artificial intelligence 3. Atomic International 4. Soil Absorption Isotherm (AI) Test
AIA	American Institute of Architects
AIAA	American Institute of Aeronautics and Astronautics
AIBS	American Institute of Biological Sciences
AIC	1. acceptable daily level for chronic intake 2. advanced industrial concept 3. alternate information center 4. American Institute of Chemists
AIChE	American Institute of Chemical Engineers
AICPA	American Institute of Certified Public Accountants
AICS	Automated Inventory Control System
AICUZ	Air Installation Compatible Use Zone
AID	U.S. Agency for International Development
AIF	Atomic Industrial Forum
AIG	American International Group
AIH	American Institute of Hydrology
AIHA	American Industrial Hygiene Association
AIHC	American Industrial Health Council
AIIE	American Institute of Industrial Engineers, Inc.
AILT	American Institute for Life Technologies
AIM	1. accelerator improvement and modification 2. Acquisition Information Management 3. advanced industrial material 4. Artificial Intelligence Manipulator
AIMD	Aircraft Intermediate Maintenance Division
AIME	American Institute of Mining, Metallurgical, and Petroleum Engineers
AIMS	Advanced Integrated Maintenance System
AIP	1. Accelerator Improvements Project 2. agreement in principle
AIPC	All Indian Pueblo Council
AIPE	American Institute of Plant Engineers
AIR	AiResearch Manufacturing Company of California
air hp	air horsepower
AIRD	Acoustic Instrumentation Research and Development (of SDT)
AIRFERRON	Aircraft Ferry Squadron
AIRHAS	Airborne Hazardous Substances (program)
AIRS	Advanced Instrumentation for Reflood Studies

AiS	Adventures in Supercomputing [DOE program (state of Tennessee and ORNL)]
AIS	1. Absentee Inquiry System 2. Advanced Isotope Separation 3. Argonne, Illinois, Site
AISB	Association of Imaging Service Bureaus
AISC	1. American Institute of Steel Construction 2. (U.S.) Army Information System Command
AISI	American Iron and Steel Institute
AISN	Adventures in Supercomputing Network
AISP	Association of Information Systems Professionals
AIT	1. Accident Investigation Team (DOE) 2. action initiation time
AK	Alaska (use only with ZIP code addresses)
Al	aluminum (element, Z = 13)
AL	1. Alabama (use only with ZIP code addresses) 2. Albuquerque Operations Office (DOE) 3. sound level on the A-weighted scale expressed in decibels
Al <sub>2</sub> O <sub>3</sub>	1. alumina 2. aluminum oxide
Al <sub>2</sub> S <sub>3</sub>	aluminum sulfide
ALA	American Lung Association
Ala.	Alabama (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
ALARA	as low as reasonably achievable
Alaska	(not an abbreviation; spell out this state name unless it is used with ZIP code addresses; use after city names in text, references, lists, tables, footnotes, bibliographies, and indexes)
ALBIOS	Aluminum Biogeochemistry in Soils
ALBURT	Albuquerque Budget Reform Task
ALC	Air Logistics Center (USAF)
ALCHEMI	axial electron channeling microanalysis
AlCl <sub>3</sub>	aluminum chloride
Alcoa	Aluminum Company of America
ALD	Advanced Leadership Development (ESTD)
ALERT	Associated Laboratories for Excellence in Radiation Technology
ALI	annual limits on intake
ALLLWSAP	Active Liquid Low-Level Waste Assurance Program
ALIPS	Automated Laser-Induced Phosphorimeter System
ALm	maximum A-weighted sound level
ALMA	Analytical Laboratory Managers Association
ALMR	advanced liquid-metal (-cooled) reactor
ALO	Albuquerque Operations Office (DOE)
ALP	Ammunitions Logistics Program (RPSD)
ALR	Advanced Logic Research (a company name)
ALS	1. Adirondack Lake Survey (ALSC) 2. Advanced Launch System 3. Advanced Light Source
ALSC	Adirondack Lake Survey Corporation
ALSS	Aluminum in Streams Study (EPRI project)
alt	altitude
ALT-II	Advanced Limiter Test II
ALU	arithmetic logic unit
ALWR	advanced light-water reactor
Am	americium (element, Z = 95)
AM	1. air mass (solar) 2. amplitude modulation (electronics) 3. annulus mixing

AMA	1. American Management Association
AMAD	2. American Medical Association
AMARC	activity median aerodynamic diameter
AMC	Aircraft Maintenance and Regeneration Center (Arizona)
	1. American Mining Congress
	2. Army Materiel Command
AMCA	Air Movement and Control Association
AMCC	Administrative Management Coordinating Council
AMCCOM	Armament, Munitions and Chemical Command (U.S. Army)
AMCO	Aerojet Manufacturing Company (Fullerton, California)
AMCR	Army Materiel Command Regulation
AMDL	Advanced Machine Development Laboratory
AMERD	Assistant Manager for Energy Research and Development
AMERWM	Assistant Manager for Environmental Restoration and Waste Management
AMESQ	Assistant Manager for Environment, Safety, and Quality
AMEX	American Stock Exchange
AMFIP	Acoustic Measurements Facilities Improvement Program
AMFIP-I	Acoustic Measurements Facilities Improvement Program, Phase I
AMFIP-II	Acoustic Measurements Facilities Improvement Program, Phase II
AML	1. abandoned mine land
	2. acute myelogenous leukemia
AMP	1. aminomethylpyridine
	2. Army Materiel Plan
amp-hr	ampere-hour ("Ah" is preferred) [convert to SI: coulomb (C)]
AMP MOD	Army Materiel Plan Modernization (project)
AMS	1. accident monitoring system
	2. advanced manipulator system
	3. aerial measurement system
	4. air monitoring station
	5. American Mathematical Society
	6. American Meteorological Society
	7. Avionics Maintenance Squadron
AMSA	Area Material and Support Activity
AMSE	American Museum of Science and Energy (Oak Ridge)
AMSEQ	Assistant Manager of Safety, Environment, and Quality
AMSL	1. Analytical Mass Spectrometry Laboratory
	2. above mean sea level (see MSL and NGVD)
AMTEX	American Textile Manufacturers Association
amu	atomic mass unit (preferred over "AMU")
AMU	1. Aircraft Maintenance Unit
	2. atomic mass unit ("amu" is preferred)
AN	anthracene
ANAD	Anniston Army Depot
ANC	acid-neutralizing capability/capacity
AND gate	"AND" is not an abbreviation (see OR gate)
ANDF	Application-Neutral Data Format (computer technology)
ANET	American Network for Environment and Technology
ANFLOW	Anaerobic Packed-Bed Upflow Bioreactor
ANG	Air National Guard
ANGB	Air National Guard Base
ANGSC	Air National Guard Support Center
ANL	Argonne National Laboratory (Argonne, Illinois)
ANL-E	Argonne National Laboratory-East (Chicago)
ANL-W	Argonne National Laboratory-West (at INEL)
ANMC	American National Metric Council
ANN	artificial neural network
ANO	Arkansas Nuclear One (AP&LC)
ANOI	Advance Notice of Intent



ANOVA	analysis of variance test
ANP	Aircraft Nuclear Propulsion (Project)
ANPEO	assistant nuclear plant equipment operator
ANPRM	advanced notice of proposed rulemaking
ANRL	Arctic Naval Research Laboratory
ANRT	Advanced Nonproliferation Resistance Technology
ANS	1. Advanced Neutron Source (formerly CNR) 2. American Nuclear Society
ANSDS	automated noise surveillance and diagnostic system
ANSI	American National Standards Institute, Inc.
ANSI/ANS	American National Standards Institute/American Nuclear Society
ANSI/ASME	American National Standards Institute/American Society of Mechanical Engineers
ANSim	neural network simulation program
ANSR	Advanced Neutron Source reactor
antilog	antilogarithm
ANWR	1. Alaska National Wildlife Refuge 2. Arctic National Wildlife Refuge
a <sub>0</sub>	initial slot length
AO	1. administrative order 2. rock salt
AOA	airborne optical adjunct
AOC	area of contamination (RCRA)
AODC	acridine orange direct count
AOHP	add-on heat pump
AOI	1. abnormal operating instruction 2. avoid oral instructions
AOMA	American Occupational Medical Association
AOO	anticipated operational occurrence
AOP	1. add-on plant 2. advanced oxidation process 3. Annual Operating Plan
AOSC	assistant on-scene commander
AOSTD	associate off-site technical director
AOT	auxiliary operator's terminal
AP	1. administrative procedure 2. Alaska Power Administration 3. approach-to-power (procedure) 4. array processor
AP&LC	Arkansas Power and Light Company
APA	1. Adirondack Park Agency 2. alkaline phosphatase activity 3. Administrative Procedure Act
APB	antiphase boundary
APC	1. Accident Prevention Council 2. air pollution control
APCA	1. Air Pollution Control Association 2. Association of Air Pollution Control Administration
APCD	air pollution control district
APD	avalanche photodetector
APDMS	axial power distribution monitoring system
APDU	Association of Public Data Users
APEC	Automated Procedures for Engineering Consultants, Inc.
APF	annual performance factor
APFIM	atom-probe field-ion microscopy
APG	Aberdeen Proving Ground
APHA	American Public Health Association

API	1. Advanced Photonics Initiative (ORNL) 2. American Paper Institute 3. American Petroleum Institute 4. application programming interface
APICS	American Production and Inventory Control Society
APIS	acoustic peak identification system
APMP	Acid Precipitation Mitigation Program (NAPAP)
APNEA	Active Passive Neutron Examination and Assay (P&E)
APO	1. Air Post Office 2. Analytical Project Office 3. Army Post Office 4. auxiliary plant operator
APP	1. Application Portability Profile (NIST) 2. automated procedure prompting
APPA	American Public Power Association
APPDP	AVLIS Product Purification Demonstration Project
appm	atomic parts per million
APPR	Army Package Power Reactor
APRAS	Automated Procedures Requirements Accountability System
APRB	Assessments Prioritization and Risk Board
APRF	Army Pulse Radiation Facility
APRFR	Army Pulse Radiation Facility Reactor
APRM	average power range monitor (see LPRM)
APS	1. Aerial Port Squadron 2. American Physical Society
APSC	Advanced Processing Science Center
APSD	autopower spectral density
APSS	assistant plant shift superintendent
APT	Advanced Publishing Technology (ORNL)
APTC	Advanced Propulsion Technology Center
APTD	Advanced Publishing Technology Department
APWR	advanced pressurized-water reactor
APZ	accident potential zone
AQA	American Quaternary Association
AQCC	Air Quality Control Center
AQCR	Air Quality Control Region
AQF	American Quality Foundation
AQL	acceptable quality level
AQM	Applied Quantitative Methods (Group of TSRS)
AQMA	Air Quality Maintenance Area
AQMD	Air Quality Management District
AQWMA	Air Quality and Waste Management Association
Ar	argon (element, Z = 18)
AR	<i>Administrative Reference</i> (bulletins)
AR	1. Administrative Record 2. antireflection (coating) 3. Argonne Area Office (DOE) 4. Arkansas (use only with ZIP code addresses) 5. as received 6. authorized requestor 7. autoregression
AR&TD	Advanced Research and Technology Development (DOE)
ARA	auxiliary reactor area
ARAC	1. Acid Rain Advisory Committee 2. atmospheric release advisory capability
ARAMCO	Arabian American Oil Company
ARAP	Aquatic Resources Alteration Permit

ARAR	applicable or relevant and appropriate regulation/requirement
ARB	Air Resources Board
ARC	1. American Red Cross 2. Ames Research Center 3. Annual Report to Congress 4. Appalachian Regional Commission 5. Appliance Research Consortium 6. Assessment and Remediation of Contaminated Sediments
ARCADES	Automatic RADIAC calibration and diagnostic equipment system
ARCCC	Accident Response Capabilities Coordinating Committee
ARCF	Alternative Refrigerants Calorimeter Facility
ARCOM	U.S. Army Reserve Command
ARCSS	Arctic System Sciences (NSF)
ARDEC	Armament Research, Development, and Engineering Center (U.S. Army)
ARE	1. Aircraft Reactor Experiment 2. algebraic Riccati equation 3. aspect ratio enhancement
AREFG	Air Refueling Group (USAF)
ARELM	Alaska Railbelt Electricity Load Model
ARF	Air Reserve Forces (AFRES and ANG)
arg	argument (math)
ARG	Accident Response Group
ARHCO	Atlantic Richfield Hanford Company
ARI	1. Air-Conditioning and Refrigeration Institute 2. alternate rod injection
ARIAP	Acid Rain Impact Assessment Program
ARIES	Advanced Reactor Innovation and Evaluation Studies
ARIHE	Association of Russian Institutions of Higher Education
ARIM	Accelerator and Reactor Improvement and Modification
ARIMA	Autoregressive Integrated Moving Average (model)
ARIP	Accident Release Information Program
Ariz.	Arizona (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
ARK	Acquisition of and Reasoning about Knowledge
Ark.	Arkansas (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
ARL	U.S. Army Research Laboratory
ARM	1. Alternative Resource Management, Inc. 2. appliance research meter 3. Atmospheric Radiation Measurement (Program) (DOE)
ARMA	Association of Records Managers and Administrators
ARMS	1. Aerial Radiological Monitoring System 2. appliance research metering system 3. Area Radiation Monitor System
ARNG	Army National Guard
ARPA	Advanced Research Projects Agency (DOD)
ARRG	Aerospace Rescue and Recovery Group
ARRI	All-Russian Research Center (HIWDC)
ARRL	Advanced Robotics Research Laboratory
ARRT	American Registry of Radiologic Technologists
ARS	Administrative Requirement for Safety
ARSRC	Accelerators and Radiation Sources Review Committee
ART	1. Adaptive Resonance Theory 2. Airborne Response Team 3. Aircraft Reactor Test 4. Air Reserve technician
ARTCC	Air Route Traffic Control Center
ARTEP	Annual Required Training and Evaluation Program

As	arsenic (element, Z = 33)
AS	1. annual savings 2. assessment study 3. aviation safety
AS-KCD	Atomic Signal-Kansas City Division
ASA	1. American Sociological Association 2. American Statistical Association 3. atomic sphere approximation 4. AVID System authorization
ASAE	American Society of Agricultural Engineers
ASAT	antisatellite weapon
ASB	Association of Southeastern Biologists
ASC	1. administrative services contractor 2. advanced slagging combustor
ASCE	1. American Society of Civil Engineers 2. Assistant Secretary for Conservation and Renewable Energy
ASCET	American Society of Certified Engineering Technicians
ASCF	Army Signature Characterization Facility
ASChE	American Society of Chemical Engineers
ASCI	American Standard Code for Information Interchange
ASCL	Advanced Continuous Simulation Language
ASCOT	Atmospheric Studies in Complex Terrain
ASCS	U.S. Agricultural Stabilization and Conservation Service
ASD	1. Analytical Services Division (K-25) 2. assembly station director
ASDP	Assistant Secretary for Defense Programs
ASE	1. Advanced Systems Engineering 2. Alliance to Save Energy
ASEE	American Society for Engineering Education
ASEM	1. American Society for Engineering Management 2. Assistant Secretary for Environmental Restoration and Waste Management
ASES	American Solar Energy Society
ASESH	Assistant Secretary for Environment, Safety, and Health
ASF	1. aircraft support facility 2. automatic safety feature
ASFE	Assistant Secretary for Fossil Energy
ASG	Automated Sciences Group, Inc.
ASGDI	atmospheric-sampling glow discharge ionization
ASHP	air-source heat pump
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASI	1. acidic stress index 2. Advanced Sciences, Inc.
ASIC	application-specific integrated circuit
ASIDIC	Association of Scientific Information Dissemination Centers
ASIE	American Society of Illumination Engineers
ASIS	1. American Society for Industrial Security 2. American Society for Information Science
ASISWPCA	Association of State and Interstate Water Pollution Control Administrations/Administrators
ASL	American Sign Language
ASLAB	Atomic Safety and Licensing Appeal Board
ASLB	Atomic Safety Licensing Board
ASLO	American Society of Limnology and Oceanography
ASM	1. advanced servomanipulator 2. American Society for Metals 3. American Society of Microbiology 4. Applied Simulation and Modeling
ASME	American Society of Mechanical Engineers

ASMI	American Society of Metals International
ASNE	Assistant Secretary for Nuclear Energy
ASNT	American Society for Nondestructive Testing, Inc.
ASO	Analytical Services Organization (Energy Systems)
ASP	acoustic signal processor
ASPC	Advanced Semiconductor Processing Center
ASPE	American Society of Precision Engineers
ASPEN	Advance System for Process Engineering
ASPEP	American Society of Professional Emergency Planners
ASPP	American Society of Plant Physiologists
ASPUR	Automated System for Processing Unit Requirements
ASQC	American Society for Quality Control
ASSE	American Society of Safety Engineers
ASSESS	Analytical System and Software for Evaluating Safeguards and Security
ASSS	actual safety system setting
AST	1. aboveground storage tank 2. advanced systems technology
ASTD	American Society for Training and Development
ASTG	Aerospace Test Group
ASTM	American Society for Testing and Materials (Philadelphia)
ASTSWMO	Association of State and Territorial Solid Waste Management Officials
ASW	antisubmarine warfare
ASWE	American Society of Women Engineers
ASWS	air support weather shield
ASZ	American Society of Zoologists
At	astatine (element, Z = 85)
AT	1. Applied Technology 2. Atlanta Support Office (DOE)
at. %	atomic percent
at. wt	atomic weight
AT&SF	Atchison, Topeka and Santa Fe Railway
AT&T	American Telephone and Telegraph Company
ATA	1. airport traffic area 2. Automatic Target Acquisition (system)
ATACMS	Army Tactical Air Command Missile System
ATB	Advanced Technology Bomber
ATC	1. air traffic control (center) 2. Air Training Command 3. Applied Technology Council 4. auto-tuning controller
ATCM	Association for Total Cost Management
ATD	Applied Technology Division (formerly ETAC; now ETD)
ATDD	Atmospheric Turbulence and Diffusion Division (formerly ATDL; NOAA at Oak Ridge)
ATDL	Atmospheric Turbulence and Diffusion Laboratory (now ATDD; NOAA at Oak Ridge)
ATE	automatic testing equipment
ATEA	American Technical Education Association
ATES	aquifer thermal energy storage
ATF	Advanced Toroidal Facility
ATI	1. Administrative Technology Institute (Y-12) 2. American Technical Institute
ATL	Applied Technology Library (K-25) (now KIRC)
ATLA	Association of Trial Lawyers of America
ATLAS	All-Terrain Lifter, Articulated System
ATLC	Atomic Trades and Labor Council
atm	atmosphere [convert to SI: pascal (Pa)]

ATM	1. Atmospheric Transport Model 2. Attic Test Module (RRC) 3. automatic teller machine
ATMS	1. articulated manipulator-transporter system 2. Assumption-Based Truth Maintenance System
ATO	Applied Technology Organization
ATP	1. Acceptance Test Plan 2. adenosine triphosphate 3. alternate test procedure
ATR	1. advanced test reactor 2. automatic target recognition
ATS	Accountable Training System (replaced by TMS)
ATSC	Administrative Technical Support Complex
ATSDR	Agency for Toxic Substances and Disease Registry
ATSER	Agency for Toxic Substances and Emergency Response
ATSF	Advanced Technology Support Facility
ATTF	Advanced Technology Test Facility
ATV	auxiliary telephone vault
ATWS	1. anticipated transients without scram 2. anticipated transients with scram
Au	gold (element, $Z = 79$ )
AUB	Athens Utilities Board (Tennessee)
AUEL	Automated Unit Equipment List
AUO	assistant unit operator
av	average
AV	acoustic velocity (geophysical logging)
AVC	adjustable vane compressor
AVD	acoustic variable density (geophysical logging)
AVGAS	aviation gasoline
AVHRR	advanced very high resolution radiometer
AVID	Accelerated Vendor Inventory Delivery (Energy Systems)
AVLIS	Atomic Vapor Laser Isotope Separation
AVR	1. Arbeitsge-meinschaft Versuchs Reaktor (KFA, Jülich, Germany) 2. attic ventilation area ratio
AVS	1. Advanced Visual Systems 2. American Vacuum Society 3. Application Visualization System (computer software)
AVSGTS	annulus vacuum standby gas treatment system
AWACS	Airborne Warning and Control System
AWDB	Adirondack Watershed Data Base
AWE	Atomic Weapons Establishment (Aldermaston, England)
AWEA	American Wind Energy Association
AWG	American Wire Gage
AWI	American Welding Institute
AWIS	Association for Women in Science
AWIS-ETC	Association for Women in Science, East Tennessee Chapter
AWLPG	Albuquerque Operations Work Load Planning Guidance
AWOL	absent without leave
AWPCF	Air and Water Pollution Control Facilities
AWQC	ambient water quality criteria
AWRA	American Water Resources Association
AWRE	Atomic Weapon Research Establishment (U.K.)
AWS	1. alternative work schedule 2. American Welding Society 3. Approved Work Scope 4. Association for Women in Science
AWWA	American Water Works Association
AWWT	Advanced Wastewater Treatment

AX  
AXAF  
AZ

auxiliary system  
Advanced X-Ray Astrophysical Facility (for Martin Marietta Corp. satellite )  
Arizona (use only with ZIP code addresses)

b	barn [convert to SI: square meter (m <sup>2</sup> ); sometimes "barn" is accepted by Energy Systems]
B	<ol style="list-style-type: none"> <li>1. billion(s) [when used with dollars, use only when preceded by dollar sign and one or more numbers; use no space between number and B (e.g., \$2B = \$2,000,000,000 or two billion dollars)]</li> <li>2. boron (element, Z = 5)</li> <li>3. byte</li> <li>4. magnetic field strength in teslas</li> </ol>
B.A.	Bachelor of Arts (also A.B.)
B.S.	Bachelor of Science
B-W	Babcock and Wilcox ("B&W" is preferred)
B/C	benefit-to-cost ratio
B/P	blueprint
B&A	Bid and Award
B&F	Business and Finance Division (formerly F&M)(now F&BM)(ORNL)
B&G	bitumen and gravel
B&PV	<i>Boiler and Pressure Vessel Code</i>
B&R	budget and reporting
B&RC	<ol style="list-style-type: none"> <li>1. budget and reporting classification</li> <li>2. budget and resource classification</li> </ol>
B&W	Babcock and Wilcox (preferred over "B-W")
B <sub>2</sub> H <sub>6</sub>	diborane (gas)
Ba	barium (element, Z = 56)
BA	<ol style="list-style-type: none"> <li>1. Batavia Area Office (DOE)</li> <li>2. budget authorization</li> <li>3. building audit</li> </ol>
BaA	benz[a]anthracene
BAA	Broad Agency Announcement
BAAQMD	Bay Area Air Quality Management District
BAC	budget at completion
BACT	best available control technology
BAI	backup aircraft inventory
BaP	benz[a]pyrene or benzo[a]pyrene
bar	[do not abbreviate this word (obsolete unit); convert to SI: pascal (Pa)]
BASEC	Budget Allocation System for Environmental Cleanup
BASH	bird-aircraft strike hazard
BASIC	beginner's all-purpose symbolic instruction code
BAT	best available technology
BB	billion barrels
BBC	balanced biological community
BBCSI	Brown-Boveri Control Systems, Inc.
BBD	bucket-brigade device
BBE	base bioenvironmental engineer
BBER	Bureau of Business and Economic Research
bbl	barrel [convert to SI: cubic meter (m <sup>3</sup> )]
bbl/d	barrels per day [convert to SI: cubic meters per second (m <sup>3</sup> /s)]
BBS	Bulletin Board System
BC	<ol style="list-style-type: none"> <li>1. Bear Creek</li> <li>2. before Christ</li> <li>3. boundary condition</li> <li>4. β-glucosidase</li> </ol>
BCBG	Bear Creek Burial Ground



bcc	body-centered cubic
BCD	1. base-catalyzed decomposition 2. binary-coded decimal
BCE	base civil engineer
BCF	bioconcentration factor
BCL	Battelle Columbus Laboratories (Columbus, Ohio)
BCOE	barrels of crude oil equivalent
BCM	Binary Chemical Munitions Program
BCP	Base Comprehensive Plan (USAF)
BCR	Base Community Relations
BCRA	Base Closure and Realignment Act
BCS	1. Bardeen-Cooper-Schrieffer theory 2. boundary control station
BCT	1. best conventional technology 2. best conventional treatment
BCTIC	Biomedical and Computing Technology Information Center
BCTTA	Biology and Center for Technical Transfer Area
BCVWDA	Bear Creek Valley Waste Disposal Area
BCWP	budgeted cost of work performed
BCWS	budgeted cost of the work scheduled
Bd	Bound (math)
BD	Biology Division (ORNL)
bd-ft	board-foot [convert to SI: cubic meter (m <sup>3</sup> )]
BDAT	best demonstrated available technology
BDB	beyond design basis
BDBA	beyond-design-basis accident
BDHT	blowdown heat transfer
BDMS	Bioassay Data Management System
BDN	Biodenitrification Facility
Be	beryllium (element, Z = 4)
BE	Biomedical and Environmental Science Laboratory
BEA	Bureau of Economic Analysis
BEC	Boeing Engineering and Construction Company
BEE	bioenvironmental engineer
BEHD	bis(3-ethylhexyl)phthalate
BEIA	Biomedical and Environmental Information Analysis (Section) (formerly IR&A)
BEIR	biological effects of ionizing radiation (National Research Council)
BEL	Biological Evaluation Laboratory
BEMS	Bio Electro Magnetism Society
BeO	beryllium oxide
BEP	Bureau of Engraving and Printing
BEPO	British Experimental Pile (see GLEEP)
BEPS	Buildings Energy Performance Standards
BEQ	bachelor enlisted quarters
BER	1. bit error rate 2. Building Equipment Research
BERC	Building Envelope Research Center (ORNL)
BERD	Buildings Energy Research and Development (DOE Office)
BERR	Building Energy Retrofit Research
BES	1. Basic Energy Sciences 2. Bioenvironmental Engineering Services 3. Biomedical and Environmental Sciences 4. bounding event sequence
BESD	Bioenvironmental Engineering Services Division
BESI	Bioenvironmental Engineering Service Industrial
BET	1. Baseline Evaluation Test 2. Brunauer-Emmett-Teller (adsorption equation)

BF	bright field
BF <sub>3</sub>	boron fluoride
BFAF	beamformer antialiasing filter
BFDP	Biofuels Feedstock Development Program
BFOQ	bona fide occupational qualifications
BFR	Breeder Fuel Reprocessing
BFS	binary feature signature
BG	1. British Gas (Corp.) 2. burial ground
BG/SL	British Gas Slagging Lurgi
BG&E	Baltimore Gas & Electric
BGC	British Gas Corp.
BGO	bismuth germinate
BGS	below ground surface
BHA	butylated hydroxyanisole
BHC	benzene hexachloride
BHN	Brinell hardness number
bhp	brake horsepower
BHT	butylated hydroxytoluene
Bi	1. biot [convert to SI: ampere (A)] 2. bismuth (element, Z = 83)
BI	Billings Area Office (DOE)
BIA	Bureau of Indian Affairs (DOI)
BiCMOS	bipolar complementary metal-oxide semiconductor
BID	background information document
BIE	bounded implicit enumeration
BIEA	Building Innovations Economic Analysis
BIL	basic impulse level
BIOMOVs	International Biospheric Model Validation Study
BIOS	basic input/output system (computer term)
BIPM	International Bureau of Weights and Measures (Bureau International des Poids et Mesures)
BIS	Bismarck District Office (DOE)
BITS	Benefits Information Telephone System
BJT	bipolar junction transistor
Bk	berkelium (element, Z = 97)
BK	Brookhaven Area Office (DOE)
BL	Bettis Atomic Power Laboratory
BLAS	Basic Linear Algebra Subprogram
BLC	building load coefficient
Bldg.	Building (use when followed by number)
BLM	Bureau of Land Management (DOI)
BLS	1. below land surface 2. Bureau of Labor Statistics (DOL)
BM/C <sup>3</sup>	Battle Management Command Control Communications
BM&A	Business Management and Administration
BMAP	Biological Monitoring and Abatement Program
BMAR	backlog of maintenance and repair
BMDL	below method detection level
BMDO	Ballistic Missile Defense Organization
BMEWS	Ballistic Missile Early Warning System
BMG	Bureau of Mines and Geology (DOI)
BMI	1. Battelle Memorial Institute 2. body mass index
BMIP	Business Management Integration Project
BMP	best management practice
BMS	1. biomedical studies 2. Business Management System

BMSL	below mean sea level
BMSP	Business Management Systems and Procedures
BMW	bombardment wing (USAF)
BMWT	Biofuels and Municipal Waste Technology Division (DOE)
BN	boron nitride
BNA	Bureau of National Affairs, Inc. (Washington, D.C.)
BNF	British Nuclear Fuels
BNFP	Barnwell Nuclear Fuel Plant
BNI	Bechtel National, Inc.
BNL	Brookhaven National Laboratory (Upton, New York)
BNWL	Battelle Northwest Laboratories (now PNL) (Richland, Washington)
BO	budget outlay/obligation
BOA	1. basic ordering agreement 2. Broadband Optical Absorber
BOB	U.S. Bureau of the Budget (now OMB)
BOC	beginning of cycle
BOD	1. biochemical (or biological) oxygen demand [a subscript number (e.g., BOD <sub>5</sub> ) represents the number of days over which measurements were taken] 2. Business Operations Division
BOD <sub>5</sub>	5-day biochemical (or biological) oxygen demand
BOIP	Basis of Issue Plan
BOIP/QQPRI	Basis of Issue Plan/Quantitative and Qualitative Personnel Requirements Information
BOM	1. benthic organic matter 2. U.S. Bureau of Mines (DOI) (also USBM and BuMines)
BOMA	Building Owners and Managers Association
BONUS	Boiling Nuclear Superheat Reactor
BOP	1. balance of plant 2. blowout preventer
BOQ	bachelor officer quarters
BOR	Bureau of Outdoor Recreation
BOS	Base Operating Support
bp	boiling point
BP	1. boiling point 2. British Petroleum (a company name)
BPA	1. blanket purchasing agreement 2. Bonneville Power Administration
BPA-LC	Bonneville Power Administration-Lower Columbia Area
BPA-SR	Bonneville Power Administration-Snake River Office
BPA-UC	Bonneville Power Administration-Upper Columbia Area
BPAO	Base Public Affairs Office
BPCD	bipolar pulse conductivity detector
BPCT	best practicable control technology
BPDE	benzo[a]pyrene-diol-epoxide
bpi	bits (binary digits) per inch (computer term)
BPI	boost-phase intercept
BPJ	best professional judgment
BPMd	Battelle Project Management Division
BPN	backpropagation network
BPO	Bartlesville Project Office (DOE)
bps	bits (binary digits) per second (computer term)
BPT	back-pressure turbine
BPU	bypass unit
BPX	Burning Plasma Experimental Reactor
Bq	becquerel
Br	bromine (element, Z = 35)
BR	breeder reactor

BR3	Belgian reactor (40 MW)
BRC	below regulatory concern
BRDC	Bioprocessing Research and Development Center (CTD)
BRG	Budget Review Group
BRI	Business Risk International
BREN	Bare Reactor Experiment-Nevada
BRET	Breeder Reprocessing Engineering Test
BRF	Bioprocessing Research Facility
BROT	badge reader-operated turnstile
BRP	Breeder Reactor Program
BRS	1. Badge Reader System 2. broad-range spectrometer
BS	Boston Support Office (DOE)
BSD	Business Systems Division
BSEP	Brine Sampling and Evaluation Program
BSF	Bulk Shielding Facility
BSFC	brake-specific fuel consumption
BSL	biodenitrification surge lagoon
BSM	bilateral servomanipulator
BSNET	Bachelor of Science in Nuclear Engineering Technology
BSR	Bulk Shielding Reactor
BSSC	Building Siesmic Safety Council
BSTS	Boost-Phase Surveillance and Tracking System
BTC	1. breakthrough curve (column-elution tests) 2. Buildings Technology Center (formerly RRC) (ORNL)
BTD	breakthrough detector
BTDC	bulk thermal desorption chamber
BTECC	Building Thermal Envelope Coordination Council
BTESIM	Building Thermal Envelope Systems and Insulating Materials
BTESM	Building Thermal Envelope Systems and Materials
BTP	1. bistable trip processor 2. Branch Technical Position
BTIS	beam tube isolation system
Btu	British thermal unit [convert to SI: joule (J) or, in some cases, watt (W)]
BTX	benzene-toluene-xylene
bu	bushel [convert to SI: cubic meter (m <sup>3</sup> )]
BU	Butte Projects Office (DOE)
BUDPREP	budget preparation system
BUILD	Baseload Utilities Integrated Location Decisions (System)
Bul.	Bulletin (use when followed by number in citations)
BuMines	U.S. Bureau of Mines (DOI) (also BOM and USBM)
BUR	1. built-up roof 2. Business Unit Review
BURC	Business Unit Review Committee
BUSTR	Bureau of Underground Storage Tank Regulation
BVLLWUP	Bethel Valley Liquid Low-Level Waste Upgrade Project
BVLLW	Bethel Valley low-level waste
BWEMSP	Beryllium Worker Enhanced Medical Surveillance Program (ORISE)
BWIP	Basalt Waste Isolation Project
BWP	Burial Waste Program
BWR	boiling-water reactor
BWROG	Boiling Water Reactor Owners' Group
BWRSAT	boiling-water reactor severe accident technology
BY	budget year
BZ	nonlethal but incapacitating age
°B	degrees Baumé

# C

c	crystalline
C	1. capacitance
	2. carbon (element, $Z = 6$ )
	3. Celsius (formerly centigrade)
	4. centigrade (now Celsius)
	5. Confidential (classification)
	6. coulomb
c.g	center of gravity
c.o.b.	close of business (also COB)
c.o.d.	cash on delivery (also COD)
C.I.	cast iron
C.I.P.	cast in place
c.m.	center of mass
C.V.	coefficient of variation (math)
C-CAP	Coast Watch Change Analysis Program
C-E	Combustion Engineering (also CE)
C-MU	Carnegie-Mellon University
C-RD	Confidential-Restricted Data (classification)
c-Si	crystalline silicon
C/C	carbon-carbon (also CC)
C/LM	conservation and load management
C/MIS	Communications/Management Information System
C/NSI	Confidential National Security Information (also CNSI)
C/PC	closure/postclosure
C&REP	Conservation and Renewable Energy (programs) (ORNL)
C&TD	Computing and Telecommunications Division (now C&TS)
C&TS	Computing and Telecommunications Services (formerly C&TD)
C&UPP	College and University Partnership Program
C2	command and control (U.S. Army)
$C_2Cl_2F_4$	dichlorotetrafluoroethane [Freon 114 (refrigerant)]
$C_2Cl_3F_3$	trichlorotrifluoroethane [Freon 113 (refrigerant)]
$C_2Cl_4F_2$	1. 1,1,2,2-tetrachloro-1,2-difluoroethane [Freon 111 (refrigerant)]
	2. 1,2-difluoro-1,1,2,2-tetrachloroethane [Freon 112 (refrigerant)]
$C_2ClF_5$	chloropentafluoromethane [Freon 115 (refrigerant)]
$(C_2H_5)_3N$	triethylamine
$C_3H_8$	propane
C3I	command, control, communications, and information
$C_4F_8$	perfluorocyclobutane (being tested for CFC substitute; will not harm ozone layer)
$C_4F_{10}$	perfluorobutane (Teflon derivative being tested for CFC substitute; will not harm ozone layer)
$C_6F_6$	hexafluorabenzene
$C_6H_5SH$	thiophenol
$C_{18}H_{15}PO_3$	triphenyl phosphate
$C_{60}$	60-atom cluster (buckyball)
Ca	calcium (element, $Z = 20$ )

CA	1. calculation aid 2. California (use only with ZIP code addresses) 3. civil and architectural 4. cleanup action/activity 5. component assembler 6. configuration administrator 7. corrective activity 8. corrective action
ca.	circa (about) (use for dates only)
CA/PA	collision avoidance positive acknowledgment (computer term)
CAA	1. Civil Aeronautics Authority 2. Clean Air Act of 1970 (see CAAA) (40 CFR, Pts. 50-80; DOE Orders 5400.1 and 5400.5) 3. Color Additive Amendment of 1960 (FDCA) 4. Computer Access Authorization 5. continuous alpha air (monitor) 6. U.S. Concept Analysis Agency
CAAA	Clean Air Act Amendments (of, e.g., 1990)
CAAM	1. continuous air alarming monitor 2. continuous alpha air monitor
CAAS	Criticality Accident Alarm System
CaCO <sub>3</sub>	calcium carbonate
CACS	Commercial and Apartment Conservation Service
CACSD	Computer Aided Control Systems Design
CAD	1. computer-aided design/drafting/drawing 2. Computing Applications Division (ORNL)
CADAM	computer-aided design and augmented manufacturing
CAD-CAM	computer-aided design/computer-aided manufacturing (now CIM)
CADD	computer-aided design and drafting
CADRE	computer-assisted detection and report enhancement
CAE	computer-aided engineering
CAER	Community Awareness and Emergency Response
CaF(Eu)	europium-doped calcium fluoride
CAFE	1. Computer-Aided Fabric Evaluation (a CRADA project) 2. Corporate Average Fuel Economy
CAG	Carcinogen Assessment Group (EPA)
CAI	1. computer-aided instruction 2. controlled-air incinerator
CAINS	Carrier Aircraft Inertial Navigation System
CAIRA	chemical accident/incident response and assistance
CAIS	Condition Assessment Information System
cal	calorie [convert to SI: joule (J)]
Calif.	California (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Los Angeles, San Diego, or San Francisco)
CALMMS	Computerized Air Launched Missile Management Support
CALS	1. computer-aided acquisition and logistics support 2. Continuous Acquisition Logistics Support
CAM	1. computer-aided manufacturing 2. configure and modify 3. Consumer Awareness Management 4. continuous air monitor 5. crassulacean acid metabolism
CAM-1	Computer Aided Manufacturing-International, Inc.
CAMA	Center for Advanced Microstructural Analysis
CAMAC	computer-aided/automated measurement and control
CAMDEC	Ceramics Advanced Manufacturing Development and Engineering Center (30-company consortium formed in Oak Ridge, March 1987)

CAMDS	Chemical Agent Munitions Disposal System
CAMP	1. Capital Asset Management Process 2. Capital Assets Management Plan
CAMS	Crisis Action Management System
CAMU	Corrective Action Management Unit
CANDU	Canadian Deuterium Uranium Reactor
CANS	1. Center for Applied Nonlinear Sciences 2. combination area neutron spectrometer
CaO	calcium oxide
CAP	1. capacity assurance plan 2. Civil Air Patrol 3. Clean Air Program 4. Communication Alarm Processor 5. computer-aided productivity 6. Corrective Action Plan 7. Corrective Action Program 8. Customer Advantage Program
CAPA	1. computer-aided personnel accountability 2. Critical Aquifer Protection Area
CAPCA	closure and postclosure activity
CAPE	Civilian Applications Program Engineering
CAPP	computer-aided process planning
CARER	Center for the Advancement of Radiation Education and Research
CARES	Central America Rural Electrification Support (Program)
CAR	1. computer-aided retrieval 2. corrective action report
CARL	Comparative Animal Research Laboratory (formerly managed by UT; now managed by ORAU)
CARMA	Cartesian Master Arm (robotics)
CARS	Corrective Action Report and Status (form)
CART	Cloud and Radiation Testbed
CARTS	Critical Actions Requirements Tracking System
CAS	1. Center for Auto Safety 2. Central Alarm Station 3. Central Alarm System 4. Chemical Abstracts Service 5. Chinese Academy of Sciences 6. condition assessment survey 7. Cost Accounting System
CAS/SAS	central alarm system/secondary alarm system
CASAC	Clean Air Scientific Advisory Committee
CASCADE	computer-aided systems and control analysis and design environment
CASD	Chemical and Analytical Sciences Division
CASE	computer-aided software engineering
CASM	commercial advanced servomanipulator
CaSO <sub>4</sub>	calcium sulfate
CASRN	Chemical Abstract Services Registry Numbers
CAT	1. collection and transfer (ORNL) 2. computerized axial tomography (scanner)
CATC	Corrective Action Tracking Committee
CATD	Center for Advanced Technology Development (Iowa State University)
CATROB	Computer Assisted Telemanipulation with Robots (KfK)
CATS	Computer Assisted Tracking System
CATV	cable television
CAU	Clark Atlanta University
CAVIS	Computer-Aided Vault Inventory System
CAWG	Clean Air Working Group
CB	core blockage

CBC	1. circulating bed combustor
CBCF	2. compact badger cluster
CBD	carbon-bonded carbon fiber
	1. Characteristics Data Base
	2. chronic beryllium disease
CBD	<i>Commerce Business Daily</i>
CBE	Center for Business and Economic Research (UT)
CBED	convergent-beam electron diffraction/diffractor
CBH	cellobiohydrolase
CBI	confidential business information
CBN	Classified Broadband Network
CBO	Congressional Budget Office
CBOD	carbonaceous biochemical oxygen demand
CBR	California bearing ratio
CBRC	Commission on Base Realignment and Closure (DOD)
CBS	1. Center for Biological Sciences
	2. cost breakdown structure
CBT	computer-based training
CBTEC	Computer-Based Training for Environmental Compliance
cc	cubic centimeter
CC	1. carbon-carbon (also C/C)
	2. Career Center (formerly Placement Center)
	3. construction contractor
CCA	control center assistant
CCB	1. Change Control Board
	2. configuration control board
CCBA	coupled-channel Born approximation
CCBC	Council of Community Blood Centers
CCBP	coal combustion by-product
CCC	1. central control center
	2. central control computer
	3. combustible cartridge case (munitions)
	4. commercial cylindrical chamber
	5. communication and control center
CCCTF	Core Conduction Cooldown Test Facility (MHTGR)
CCD	1. charge-coupled device (camera)
	2. conceptual core design
CCDIS	charge-coupled device imaging spectrometer (Energy Systems)
CCDM	Consultative Committee for the Definition of the Meter
CCDS	Consultative Committee for the Definition of the Second
CCE	1. Center for Continuing Education
	2. Consultative Committee for Electricity
CCEHRP	Committee to Coordinate Environmental Health-Related Programs (PHS)
CCF	1. Central Control Facility
	2. common cause failure
	3. Corrosion Control Facility (USAF)
CCGT	closed-cycle gas turbine
CCGV	Corps Command Group Vehicle (U.S. Army)
CCI	Canine Companions for Independence
CCIX	continuous countercurrent ion exchange
CCl <sub>2</sub> F <sub>2</sub>	dichlorodifluoromethane [Freon 12 (refrigerant)]
CCl <sub>2</sub> FCClF <sub>2</sub>	trichlorotrifluoromethane (refrigerant)
CCl <sub>2</sub> FCH <sub>3</sub>	dichlorofluoroethane (refrigerant)
CCl <sub>3</sub> F	trichlorofluoromethane (refrigerant)
CCl <sub>3</sub> F <sub>3</sub> N <sub>2</sub>	fluorotrichloromethane [Freon 11 (refrigerant)]
CCl <sub>4</sub>	carbon tetrachloride
CClF <sub>2</sub> CClF <sub>2</sub>	dichlorotetrafluoroethane (refrigerant)
CClF <sub>2</sub> CF <sub>3</sub>	chloropentafluoroethane (refrigerant)



CCIF <sub>3</sub>	chlorotrifluoromethane [Freon 13 (refrigerant)]
CDL VII	Construction Demolition Landfill VII
CCLR	cooling collector load ratio
CCM	1. Center for Composites Manufacturing (ORNL, ETD) 2. communication control module 3. core cooling monitor
CCMES	Construction Cost Management Estimating System (USAF roof program)
CCMHP	continuously capacity modulated heat pump
CCOP	Carnot coefficient of performance
CCP	1. cast copolymer propylene 2. Clean Coal Program
CCPD	charge-coupled photodiode device
CCR	central control room
CCRP	1. Clark Center Recreation Park (Energy Systems) 2. Comprehensive Classification Review Program
CCS	Center for Computational Sciences
CCT	1. Clean Coal Technology 2. comfort cooling tower
CCTDP	Clean Coal Technology Demonstration Program (DOE)
CCTF	Cylindrical Core Test Facility (Japan)
CCTP	Clean Coal Technology Program
CCTV	closed-circuit television
CCU	1. central control unit 2. communications control unit 3. Consultative Committee for Units
CCV	control combustion Venturi
CCW	component cooling water
CCWE	constituent concentrations in waste extract
CCWF	Central Chilled Water Facility
CCWG	Configuration Control Working Group
cd	candela
Cd	cadmium (element, Z = 48)
CD	1. calibration drift 2. Certificate of Disposal 3. Chemistry Division (ORNL) 4. Civil Defense 5. clearance document 6. compact disc
CD/NSWC	Carderock Division, Naval Surface Warfare Center (formerly DTRC)
CD-ROM	compact disc, read-only memory
CDA	Copper Development Association
CDB	Characteristics Data Base
CDC	1. Centers for Disease Control 2. commercial deployment contractor
CDD	cooling degree-day
Cddb	Central Demand Data Base
CDE	collective dose equivalent
CDEP	Cooperative Development Energy Program
CDF	Cumulative Distributive Function
CDH	Colorado Department of Health
CDI	calculated daily intake
CDIAC	Carbon Dioxide Information Analysis Center
CDIARP	Carbon Dioxide Information Analyses and Research Program
CDIC	Carbon Dioxide Information Center
CDIF	Component Development and Integration Facility
CDL VII	Construction Demolition Landfill VII
CDL	chemical double layer
CDM Federal	CDM Federal Programs Corporation

CdO	cadmium oxide
CDP	compliance documentation procedure
CDR	<ol style="list-style-type: none"> <li>1. conceptual design report</li> <li>2. conceptual design review</li> <li>3. contract discrepancy report</li> <li>4. critical design review</li> </ol>
CDRD	Carbon Dioxide Research Division
CDSAR	Conceptual Design Safety Analysis Report
CdTe	cadmium telluride
CDTF	Chemical Demilitarization Training Facility
CDWS	Civil Defense Warning System
Ce	cerium (element, Z = 58)
CE	<ol style="list-style-type: none"> <li>1. capital equipment</li> <li>2. Central Engineering</li> <li>3. Combustion Engineering (also C-E)</li> <li>4. construction engineer</li> <li>5. cooling system conversion efficiency</li> </ol>
CEA	<ol style="list-style-type: none"> <li>1. Atomic Energy Commission (Commissariat a l'Energie Atomique) (France)</li> <li>2. control element assembly</li> <li>3. Cooperative Education Association</li> </ol>
CEARP	Comprehensive Environmental Assessment and Response Program
CEB	Center for Environmental Biotechnology (UT)
CEBAF	Continuous Electron Beam Accelerator Facility
CEC	<ol style="list-style-type: none"> <li>1. California Energy Commission</li> <li>2. cation exchange capacity</li> <li>3. Commission of the European Communities</li> </ol>
CECOM	Communications-Electronics Command
CED	Chemical Engineering Design (Y-12)
CEDE	committed effective dose equivalent
CEDMCS	control element drive mechanisms control system
CEDS	Centralized External Dosimetry System
CEEI	Center for Energy and Environmental Information
CEEM	Center for Energy and Environmental Management
CEER	Center for Energy and Environmental Research (Puerto Rico)
CEF	Critical Experiments Facility
CEH	Center for Environmental Health
CEI	Compliance Evaluation Inspection
CELDS	Comprehensive Environmental Legislative Data System
CELV	Complementary Expendable Launch Vehicle
CEM	<ol style="list-style-type: none"> <li>1. Center for Electromechanics (University of Texas-Austin)</li> <li>2. Certified Emergency Manager (NCCEM)</li> </ol>
CEMP	<ol style="list-style-type: none"> <li>1. Central Emergency Management Plan</li> <li>2. Comprehensive Emergency Management Plan</li> </ol>
CEMS	<ol style="list-style-type: none"> <li>1. continuous emissions monitoring system</li> <li>2. conversion electron Mössbauer spectroscopy</li> </ol>
CEMT	Capacity Expansion Management Team
cent	(neither abbreviate this word nor use cent sign, ¢, when used as unit of reactivity)
CEO	chief executive officer
CEP	<ol style="list-style-type: none"> <li>1. catalytic extraction processing</li> <li>2. Combat Events Processor</li> <li>3. Combat Events Program</li> <li>4. Compliance, Evaluations, and Policy (organization)</li> </ol>
CEPOD	catalyzed electrochemical plutonium oxide dissolution
CEPP	<ol style="list-style-type: none"> <li>1. Chemical Emergency Preparedness Program</li> <li>2. Contractor Employee Protection Program (DOE) (10 CFR, Pt. 708)</li> </ol>
CEQ	Council on Environmental Quality

CER	<ol style="list-style-type: none"> <li>1. carbon dioxide exchange rate</li> <li>2. Center for Epidemiologic Research (ORISE)</li> <li>3. Central Environmental Restoration</li> <li>4. Complete Engineering Release</li> </ol>
CERCA	Compagnie pour l'Étude et la Réalisation de Combustibles Atomiques
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Superfund) (40 CFR, Pt. 300; DOE Order 5400.4) (see EPCRA, SARA, and SITE)
CERCLIS	CERCLA Information System
CERL	<ol style="list-style-type: none"> <li>1. Civil Engineering Research Laboratory</li> <li>2. Construction Engineering Research Laboratory (U.S. Army)</li> <li>3. Corvallis Environmental Research Laboratory (EPA)</li> </ol>
CERN	European Organization for Nuclear Research [Organisation Européenne pour la Recherche Nucléaire (formerly Conseil Européen pour la Recherche Nucléaire)]
CERR	Center for Excellence in Reactor Operations
CERS	carrier evaluation report system
CERT	Computer Emergency Response Team
CERT/CC	Computer Emergency Response Team Coordination Center
CERWM	Centers for Environmental Restoration and Waste Management (DOE/K-25)
CES	<ol style="list-style-type: none"> <li>1. Candidate Evaluation System (U.S. Army)</li> <li>2. Center for Engineering Services</li> <li>3. Central Engineering Services</li> </ol>
CESAR	Center for Engineering Systems Advanced Research (ORNL)
CESARM	Center for Engineering Systems Advanced Research Manipulator (ORNL)
CESQG	conditionally exempt small-quantity generator
CESR	cooling energy supply rate
CET	<ol style="list-style-type: none"> <li>1. Center for Environmental Technology (K-25)</li> <li>2. Certified Environmental Trainer</li> <li>3. Consulting Engineers of Tennessee, Inc.</li> <li>4. core exit thermocouple</li> </ol>
CETA	Comprehensive Employment and Training Act of 1973
CETS	<ol style="list-style-type: none"> <li>1. connector environmental test stand</li> <li>2. Connector Environmental Test System</li> </ol>
CEU	<ol style="list-style-type: none"> <li>1. Consolidated Edison Uranium</li> <li>2. continuing education unit</li> </ol>
CEUR	cooling energy use rate
CEUSP	Consolidated Edison Uranium Solidification Program/Project (ORNL)
cf	compare
Cf	californium (element, Z = 98)
CF	<ol style="list-style-type: none"> <li>1. central files</li> <li>2. certainty factor</li> <li>3. Conservation Foundation</li> <li>4. concentration factor</li> <li>5. contingency fund</li> <li>6. correction factor</li> <li>7. current feedback</li> </ol>
CF <sub>3</sub> CH <sub>2</sub> F	tetrafluoroethane (refrigerant)
CF <sub>3</sub> CHCl <sub>2</sub>	dichlorotrifluoroethane (refrigerant)
CF <sub>4</sub>	<ol style="list-style-type: none"> <li>1. carbon tetrachloride</li> <li>2. tetrafluoromethane [Freon 14 (refrigerant)]</li> </ol>
CFA	central facilities area
CFADC	Controlled Fusion Atomic Data Center
CFC	<ol style="list-style-type: none"> <li>1. certified for construction</li> <li>2. chlorofluorocarbon or chlorinated fluorocarbon</li> <li>3. Combined Federal Campaign</li> </ol>
CFCC	continuous fiber ceramic composite
CFD	computational fluid dynamics

CFDA	<i>Catalogue of Federal Directory Assistance</i>
CFEM	combined fates and effects model
CFEST	Coupled Flow, Energy, and Solute Transport (computer code)
CFF	cumulative fuel failure
CFFF	coal-fired flow facility
CFM	1. Centrifuge Facilities Modification 2. cubic feet per minute [ $\text{ft}^3/\text{min}$ ] is preferred over "CFM"; convert to SI: cubic meters per second ( $\text{m}^3/\text{s}$ ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
CFMS	critical functions monitoring system
CFO	chief financial officer
CFR	<i>Code of Federal Regulations</i>
CFRD	Confidential Formerly Restricted Data (classification)
CFRF	Consolidated Fuel Recycling Facility
CFRP	Consolidated Fuel Reprocessing Program (RPS)
CFRPCDD	Consolidated Fuel Reprocessing Program Criticality Data Development
cfs	cubic feet per second [ $\text{ft}^3/\text{s}$ ] is preferred over "cfs"; convert to SI: cubic meters per second ( $\text{m}^3/\text{s}$ ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
CFS	1. central file storage 2. common file storage/system 3. Comprehensive Facility Survey
CFSP	Cooperative Forest Studies Program (ORNL)
CFTL	component flow test loop
cg	centigram
CG	commanding general (U.S. Army)
CGA	1. color graphics adapter 2. Compressed Gas Association
CGB	control guidance block
CGD	computer-generated display
CGE	computable general equilibrium (model)
CGER	Commission on Geosciences, Environment, and Resources (National Academy of Sciences)
CGES	Center for Global Environmental Studies
CGI	1. color graphics image 2. compressed-gas insulated 3. combustible-gas indicator
CGIT	compressed-gas insulated transmission
CGL	comprehensive general liability
CGLG	Council of Great Lakes Governors
CGM	Center for Gear Metrology (Y-12)
CGP	Common Ground Process (DOE)
CGPM	General Conference on Weights and Measures
CGRADSTA	Coast Guard Radar Station
cgs	centimeter-gram-second (measurement system) (replaced by SI)
$\text{CG}_w$	concentration guide for water
CH	contact handled
CH/RH-LLW	contact-handled/remotely handled low-level waste
CH-TRU	contact-handled transuranic waste
$\text{CH}_2$	hydrocarbon
$\text{CH}_3\text{CClF}_2$	chlorodifluoroethane (refrigerant)
$\text{CH}_3\text{CHF}_2$	difluoroethane (refrigerant)
$\text{CH}_4$	methane
CHABA	Committee on Hearing, Bioacoustics, and Biomechanics
CHAMMP	Computer Hardware, Advanced Mathematics, and Model Physics (DOE)
CHAMPUS	Civilian Health and Medical Program of the Uniformed Services
Chap(s).	Chapter(s) (use only when followed by number; spell out at beginning of sentence)

CHARM	Complex Hazardous Air Release Model
CHB	container handling building
CHCl <sub>3</sub>	chloroform
CHClF <sub>2</sub>	chlorodifluoromethane [Freon 22 (refrigerant)]
Chem Tech	Chemical Technology Division
CHEMTREC	Chemical Transportation Emergency Center
CHEP	Chemical Hazard Evaluation Program
CHERPS	Computerized Hypergolic Emergency Response Protocol System
CHF	critical heat flux
CHIL	Consolidated Hazardous Items List
CHIP	chemical hazard information profile
CHMM	Certified Hazardous Materials Manager
CHO	Chicago Operations Office (DOE)
CHP	1. chemical heat pump 2. Chemical Hygiene Plan
CHRIS	Chemical Hazards Response Information System
CHRS	Center for Human Reliability Studies (ORISE)
CHS	1. Compact Helical System 2. computer hardware and software
Ci	curie [convert to SI: becquerel (Bq); sometimes "curie" is accepted by Energy Systems]
CI	1. Columbus Initiative 2. command interpreter (computer term) 3. confidence interval 4. configuration items 5. counterintelligence
CIA	Central Intelligence Agency
CIAC	Computer Incident Advisory Capability (DOE)
CIAP	Climate Impact Assessment Program
CIAQ	Committee on Indoor Air Quality
CIAR	Center for Indoor Air Research
CIC	1. compensated ion chamber 2. Corporate Information Center (Martin Marietta)
CICA	1. Center for Innovative Computing Applications (Indiana University) 2. Competition in Contracting Act
CICD	Classification and Information Control Department (K-25 Site)
CICI	Corporate Information Center Interface (Energy Systems)
CICO	1. Classification and Information Control Office 2. classified information control officer
CICUG	Corporate Information Center Users Group
CID	1. charge-injection device (camera) 2. Civilian Information Directorate (formerly CIVPERCEN, then TAPA) 3. component identification 4. cubic inch displacement
CIE	1. Commission Internationale de l'Eclairage 2. computer-integrated engineering 3. computer-integrated enterprise
CIED	Computer Integrated Enterprise Division
CIEMAT	Centro de Investigaciones Energéticas, Medioambientales, y Tecnológicas
CIF	1. Cargo Integration Facility 2. Consolidated Incinerator Facility
CIG	color image graphics
CIGRE	International Conference on Large High Tension Electric Systems (Conference Internationale des Grand Reseaux Electriques)
CIH	Certified Industrial Hygienist
CIIDF	Class II disposal facility
CIM	1. computer-integrated manufacturing 2. Corporate Information Management (Energy Systems)

CIMA	Cellulose Insulation Manufacturers Association
CIMLINC	computer-integrated manufacturing LINC system
CIMP	Corporate Information Management Policy (Energy Systems)
CIMSA	Corporate Information Management Strategies and Architectures (Energy Systems)
CIMSC	Corporate Information Management Steering Council (Energy Systems)
CINC	commander in chief
CINCUSAREUR	Commander in Chief, U.S. Army, Europe
CIO	corporate information officer (Energy Systems)
CIP	Cascade Improvement Program
CIPM	International Committee for Weights and Measures
CIPREC	Conversational and Interactive Project Evaluation and Control
Cir.	Circular (publication) (use when followed by number in citations)
cir mil	circular mil
CIRM	Certified in Integrated Resource Management (APICS)
CIRPC	Office for Interagency Research and Policy Coordination
CIRRPC	Committee on Interagency Radiation Research and Policy Coordination
CIS	<ol style="list-style-type: none"> <li>1. Center for Industrial Services (UT)</li> <li>2. Central Information Services (IMS)</li> <li>3. Central Information Systems (IMS)</li> <li>4. Characterization Investigation Study</li> <li>5. Commonwealth of Independent States</li> <li>6. containment isolation system</li> <li>7. Continuous Improvement Skills (DPR)</li> <li>8. Contract Information System</li> </ol>
CISEP	Cellulose Industry Standards Enforcement Program
CIT	Compact Ignition Tokamak
CIVEX	Civilian Extraction
CIVPERCEN	U.S. Army Civilian Personnel Center (became TAPA, now CID)
CJCS	Chairman of the Joint Chiefs of Staff
cl	closure ("Cl" is preferred) (math)
Cl	<ol style="list-style-type: none"> <li>1. chlorine (element, Z = 17)</li> <li>2. closure (preferred over "cl") (math)</li> </ol>
CL	<ol style="list-style-type: none"> <li>1. centerline</li> <li>2. copper laser</li> </ol>
Cl <sub>2</sub>	chlorine gas
CLB	current licensing basis
CLC	<ol style="list-style-type: none"> <li>1. chlorocarbon</li> <li>2. Computer Learning Center (Knoxville)</li> </ol>
CLEO	classified literature searching system (OSTI)
CLIMAP	Climate Long-Range Investigation Mapping and Prediction
CLP	<ol style="list-style-type: none"> <li>1. Contract Laboratory Program (EPA)</li> <li>2. current-limiting protector</li> </ol>
CLR	collector load ratio
CLRC	Construction Labor Research Council
CLUP	Comprehensive Land Use Plan (DOD)
cm	centimeter
Cm	curium (element, Z = 96)
CM	<ol style="list-style-type: none"> <li>1. centrifuge manufacturer</li> <li>2. certification maintenance</li> <li>3. configuration management</li> <li>4. corrective maintenance</li> <li>5. corrective measure</li> <li>6. countermeasure</li> <li>7. crisis manager</li> </ol>
cm <sup>2</sup>	square centimeter
cm <sup>3</sup>	cubic centimeter
cm/s	centimeters per second

CMA	1. Certified Management Accountant 2. Chemical Manufacturers Association 3. classified mail address
CMAA	1. Construction Manufacturers Association of America 2. Crane Manufacturers Association of America
CMC	1. carboxymethyl-cellulose 2. Ceramic Manufacturability Center (HTML)
CMD	1. Central Mail Database 2. command device (computer term)
CME	comprehensive monitoring evaluation
CMF	1. Cask Maintenance Facility 2. Containment Mockup Facility
CMH	control mechanism housing
CMI	corrective measures implementation
CMIS	Configuration Management Information System
CML	1. chronic myelogenous leukemia 2. Composite Materials Laboratory 3. conservative most likely 4. Critical Mass Laboratory
CMM	coordinate measuring machine
CMMI	Center for Molecular Medicine and Immunology (University of New Jersey)
CMO	1. Central Management Offices (ORNL) 2. Computer Manual Ordering Service (ORNL Library)
CMOD	crack mouth opening displacement
CMOS	complementary metal-oxide semiconductor
CMP	1. Compliance Management Process 2. Comprehensive Medical Plan (Energy Systems) 3. Controlled Manufacturing Program
CMPG	<i>Classified Matter Protection Guide</i>
CMR	1. Consolidated Materials Report 2. continuous metallothemic reduction
CMS	corrective measures study
CMSA	Consolidated Metropolitan Statistical Area
CMSC	Central Manufacturing Support Complex
CMT	1. Center for Manufacturing Technology (Y-12) 2. Crisis Management Team
CNC	Computer Numerical Control (ORNL)
CNMC	Computer Numerical Control Machine Center (ORNL)
CNEPA	Comprehensive National Energy Policy Act of 1992
CNF	Central Neutralization Facility
cNFS	Network Central File Server
CNG	compressed natural gas
CNIE	Computing, Networking, Informatics, and Education (directorate of CAD, CCS, EP&M, OLC, and OSEPER)
CNM	Clinic for Nuclear Medicine (Bonn, Germany)
CNPE	Center for Natural Phenomena Engineering (Energy Systems)
CNR	1. Center for Neutron Research (now ANS) 2. Central Neutralization Facility (K-25 Site)
CNRA	1. Center for Nuclear Regulatory Analysis 2. Committee on Nuclear Regulatory Activities (OECD, NEA)
CNRS	National Scientific Research Center (Centre National de la Recherche Scientifique) (France)
CNS	central nervous system
CNSI	Confidential National Security Information (also C/NSI)
CNWDI	Classified Nuclear Weapon Data Information
Co	cobalt (element, Z = 27)

CO	1. carbon monoxide 2. Colorado (use only with ZIP code addresses) 3. consent order 4. contracting officer
Co.	Company (spell out in text; abbreviate in references, lists, tables, footnotes, bibliographies, and indexes)
CO <sub>2</sub>	carbon dioxide
COB	1. close of business (also c.o.b) 2. coordination of benefits
COBOL	common business-oriented language
COBRA	Consolidated Omnibus Reconciliation Act
COC	1. Certificate of Compliance 2. contaminant of concern
COCA	1. Certificate of Competent Authority 2. consent order compliance agreement
CoCl <sub>2</sub>	cobaltous chloride
COCl <sub>2</sub>	phosgene
COD	1. cash on delivery (also c.o.d.) 2. chemical oxygen demand 3. crack opening displacement
CODAS	computer-operated data acquisition system
CODEDACS	Component Development Data Acquisition System
COE	1. coefficient of efficiency 2. command operational element (U.S. Army) 3. Corps of Engineers (U.S. Army) 4. cost of electricity
coeff	coefficient (math)
COEI	Composition of Ending Inventory
COFO	conduct of facility operations
COG	1. cell off-gas 2. central off-gas (system) 3. continuity of government
COGEMA	French Fuel Enrichment and Processing Corporation
COGEMT	Continuity of Government Emergency Management Team
COI	conflict of interest
coin	coincidence (math)
Coker	Cokernel (math)
Colo.	Colorado (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Denver)
colog	cologarithm (math)
COM	1. colloidal organic macromolecule 2. computer output microfilm/microfiche
COMET	Center of Model Evaluation Technology
COMIT	Conduct of Operations Management Issues Team
CoMO	Consolidated Management Office
comp(s).	compiler(s) (use in citations)
COMPMECH	compensatory mechanisms in fish populations
COMSEC	communications security
COMVAN	communications van
CON	conservation and renewable energy
CONAES	Committee on Nuclear and Alternative Energy Sources
concn	concentration (MSDS)
CONEG	Coalition of Northeastern Governors
CONFIDES	Configuration Identification System
conj	conjugate (math)
Conn.	Connecticut (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)



CONOPS	concept of operations
const	constant (math)
CONUS	continental United States (see OCONUS)
COO	chief operating officer
COP	coefficient of performance
COR	contracting officer's representative
CORA	Cost of Remedial Action (model)
CORBAN	Corps Battle Analyzer
CORECT	Committee on Renewable Energy Commerce and Trade
CORETECH	Council on Research and Technology
Corp.	Corporation (spell out in text; abbreviate in references, lists, tables, footnotes, bibliographies, and indexes)
CORSOR	core source fission product release rate
cos	cosine (trigonometric function)
COS	Corporate Open Systems (C&TS)
cosh	hyperbolic cosine (hyperbolic function)
COSH	Construction Occupational Safety and Health
COSPAR	Committee on Space Research
COSPLUM	Crystalline Overthrust Structures on the Platform Localizing Unconventional Methane
cot	cotangent (preferred over "ctg") (trigonometric function)
coth	hyperbolic cotangent (hyperbolic function)
COTR	contracting officer's technical representative
COTS	commercial off-the-shelf (item)
cov	covariance (math)
covers	covered sine (trigonometric function)
cp	1. candlepower 2. chemically pure (preferred over "CP")
CP	1. capital construction project 2. chemically pure ("cp" is preferred) 3. circular polarization 4. coincidence processor 5. command post (U.S. Army) 6. control processor 7. cost proposal 8. Crediting Plan (U.S. Army)
CP&D	construction planning and design
CPA	1. certified public accountant 2. coherent-potential approximation
CPAF	cost plus award fee
CPAO	Central Public Affairs Office (at Y-12)
CPBT	core pressure boundary tube
CPC	core protection calculator
CPCF	Central Pollution Control Facility
CPCI	Central Personnel Clearance Index
CPDD	conceptual project design description
CPDF	Centrifuge Plant Demonstration Facility
CPE	1. centrally planned economy 2. contractor performance evaluation
CPF	carcinogenic potency factor
CPFF	cost plus fixed fee
CPI	1. characters per inch 2. chemical process industry
CPIF	cost plus initiative fee
CPIM	Certified Production and Inventory Manager (APICS)
CPL	Component Preparation Laboratory
cpm	1. counts per minute 2. cycles per minute

CPM	1. central policy manager 2. Certified Professional Manager 3. control processor module 4. critical path method
CPNX	combined pulsed-neutron and X-ray interrogation inspection
CPO	1. Central Publications Office 2. Civilian Personnel Office (U.S. Army) 3. College Programs Office (Energy Systems)
CPP	1. Cascade Pilot Plant 2. Certified Protection Professional
CPPM	computer protection program manager
CPR	1. cardiopulmonary resuscitation 2. critical power ratio
CPRS	Contract Purchasing Review System
cps	cycles per second
CPS	Certified Professional Secretary
CPSC	U.S. Consumer Product Safety Commission
CPSD	cross-power spectral density
CPSR	1. Contractor Performance System Review 2. Contractor Procurement System Review
CPTP	Columbia Plateau Techtonic Province
cpu	central processing unit ("CPU" is preferred)
CPU	central processing unit (preferred over "cpu")
CPUE	catch per unit effort
CPVC	postchlorinated polyvinylchloride
CPW	continuous polymer wire
CPX	command post exercise
CPZ	contingency planning zone
Cr	chromium (element, Z = 24)
CR	1. capacity resistive 2. carriage return 3. community relations 4. convergence ratio
CR	<i>Congressional Record</i>
CR-ERNS	Continuous Release-Emergency Response Notification System
CR-RC	capacity resistive-resistive capacity
CRA	Civil Rights Act of 1964
CRAC	1. Consequence of Reactor Accident Code 2. control room air conditioning
CRACS	chemical and radiological analysis computer system
CRADA	cooperative research and development agreement
CRAF	Comet Rendezvous Asteroid Flyby
CRAVE	Carcinogen Risk Assessment Verification Enterprise
CRB	1. Change Review Board 2. Cost Risk and Benefit
CRBAWP	Chestnut Ridge Borrow Area Waste Pile
CRBED	commercial reference building energy demand
CRBR	Clinch River Breeder Reactor
CRBRP	Clinch River Breeder Reactor Project/Plant
CRC	1. contamination reduction corridor 2. Criticality Review Committee 3. cyclic redundancy check
CRD	1. Confidential-Restricted Data 2. control rod drive
CRDEC	Chemical Research Development and Engineering Center (U.S. Army)
CRDM	control rod drive mechanism
CRDR	control room design review

CRE	1. Conservation and Renewable Energy 2. controlled residual element 3. corrosion resistant
CREDO	Centralized Reliability Data Organization
CRESO	Clinch River Environmental Studies Organization
CRG	Configuration Review Group
CRHR	Chestnut Ridge Hydrogeologic Regime
CRI	1. Consortium of Research Institutions 2. Contract Reform Initiative (DOE)
CRK	Clinch River kilometer
CRL	1. Central Research Laboratories (commercial firm) 2. Central Research Library
CRM	1. Center for Risk Management 2. Clinch River mile
CRP	Coordinated Research Program (IAEA)
CRPS	control rod power supply
CRREL	Cold Regions Research Engineering Laboratory (U.S. Army)
CRRFI	Clinch River Resource Conservation and Recovery Act Facility Investigation
CRRI	Clinch River Remedial Investigation
CRS	1. Complex Reconfiguration Study 2. Computer Resource Systems (CHS AVID vendor, Knoxville) 3. Congressional Research Service 4. Customer Reports Systems
CRSDB	Chestnut Ridge Sediment Disposal Basin
CRSP	Chestnut Ridge Security Pits
CRT	1. cathode-ray tube 2. chemical-radiative-transport (model) 3. Contract Reform Team (DOE)
CRTGA	control room toxic gas analyzer
C RTP	Civilian Reactor Technology Program
CRWQCB	California Regional Water Quality Control Board
CRZ	Contamination Reduction Zone
C <sub>s</sub>	saturation concentration
Cs	cesium (element, Z = 55)
CS	1. carbon steel 2. charge sensitive 3. cold source 4. communication system 5. communications subsystem 6. compact specimen
CS <sup>2</sup>	cost/schedule control systems
CS-CIS	Common Support-Common Industrial Support
CS-G&A	Common Support-General and Administrative
CS&H	Central Safety and Health (organization, Energy Systems)
CS&HF	Cognitive Systems and Human Factors (group of EP&M)
CSA	1. comprehensive safety assessment 2. criticality safety approval 3. current signature analysis
CSAM	Center for the Study of Advanced Materials
CSAO	Construction Safety Association of Ontario
CSAP	Corporate Self-Appraisal Program
CSAR	conceptual safety analysis report
CSAU	code scaling applicability and uncertainty
CSAUP	Comprehensive Safety Assessment and Upgrade Program
csc	cosecant (trigonometric function)
CSC	1. Civil Service Commission 2. cooling seasonal cost
csch	hyperbolic cosecant (hyperbolic function)

CSCSC	cost/schedule control systems criteria
CSD	1. cold shutdown 2. critical solvent de-ashing
CSDD	conceptual system design description
CSDF	Chemical Stockpile Disposal Facility
CSDP	1. Cask Systems Development Program [OCRWM (DOE)] 2. Chemical Stockpile Disposal Program
CSDNA	CF-source-driven-noise analysis
CSDS	Client Server Development System (C&TS)
CSE	Conservation and Solar Energy (DOE)
CSEP	Confined Space Entry Program (K-25)
CSEPP	Chemical Stockpile Emergency Preparedness Program (U.S. Army-FEMA) (Energy Division)
CSET	Central Safety Evaluation Team
CSETMG	Central Safety Evaluation Team Management Group
CSETWG	Central Safety Evaluation Team Working Group
CSG	1. coding and software generation 2. combat support group
CSHEAC	Central Safety, Health, and Environmental Affairs Committee (Y-12)
CSI	1. Clean Sites Incorporated 2. Computational Systems, Inc. 3. Computer Security Institute 4. Consultec Scientific, Inc. 5. control sequence interface
CSIRO	Commonwealth Scientific and Industrial Research Organization
CSLF	Centralized Sanitary Landfill
CSLF II	Centralized Sanitary Landfill II
CSM	conceptual site model
CSMA	Chemical Specialties Manufacturing Association
CSMA/CD	carrier sense multiple access with collision detector (computer term)
CSNI	Committee on the Safety of Nuclear Installations (OECD, NEA)
CSO	1. combined sewer overflow 2. computer security officer
CSP	Certified Safety Personnel
CSPE	chlorosulfonated polyethylene
CSPF	cooling seasonal performance factor (also SPFC)
CSPP	Computer Systems Policy Project
CSPT	core support performance test
CSPUC	Ceramic Specimen Preparation User Center (HTML)
CSR	1. Center for Space Research (MIT) 2. Customer Service Representative (of ISD)
CSS	Command Software Systems (a company name)
CSSA	Central Safeguards and Security Agreement
CSSG	Central Safeguards and Security Group
CSSO	computing system security officer
CST	Chemical Systems Test
CSTC	Combat Support Training Complex
CT	1. center tap 2. Connecticut (use only with ZIP code addresses) 3. current transformer
CTA	1. Center for Transportation Analysis (ORNL) 2. Central Training Academy 3. smear counter (alpha)
CTA-CTB	smear counter (alpha)-smear counter (beta)
CTB	1. Community Television Board (City of Oak Ridge) 2. smear counter (beta)
CTC	compatibility test chamber
CTCS	Classified Timesharing Computer System

CTD	1. Chemical Technology Division (ORNL) 2. conductivity-temperature-depth 3. cumulative trauma disorder [injury from repetitive motion (e.g., carpal tunnel syndrome)]
CTE	coefficient of thermal expansion
CTF	1. Central Training Facility 2. Component Test Facility 3. contrast transfer function
ctg	cotangent ("cot" is preferred) (math)
CTG	control technique guidance
CTI	Cooling Tower Institute
CTL	1. Cable Technology Laboratories, Inc. 2. component test loop 3. Construction Technology Laboratory
CTP	1. Ceramic Technology Project (DOE) 2. Cold Test Pit (INEL)
CTPD	core thermal power demand
CTR	1. controlled thermonuclear reaction 2. cycle-time reduction
CTS	Central Technical Services (ORNL)
CTSB	Computing and Telecommunications Standards Board
CTSO	Computing and Telecommunications Security Organization
CTT	cost and transit time
CTTF	Centrifuge Training And Testing Facility
Cu	copper (element, Z = 29)
CUA	1. Common User Access (IBM) 2. controllable unit approach
CUMACS	Computerized Utilities Monitor and Control System
CuO	copper oxide
CUP	1. carcinogen usage plan 2. Cascade Upgrading Program
CURE	chemical unit record estimate
CUSEC	Central United States Earthquake Consortium
CV	control valve
CVB	command validation block
CVCS	chemical volume control system
CVD	chemical vapor deposition
CVI	1. chemical vapor infiltration 2. Coastal Vulnerability Index
CVL	1. continuous vent line 2. copper vapor laser
CVM	cluster variation method
CVN	Charpy V-notch
CVR	combat vehicle robotics
CVS	1. central vascular system 2. clad vent sets
CVSA	Commercial Vehicle Safety Allowance
CVSHP	continuously variable-speed air-to-air heat pump
CVT	continuously variable transmission
CVTF	Centrifuge Verification Test Facility
cw	continuous wave
CW	1. chemical weapon 2. cold worked 3. concentration wave 4. continuous wave
CWA	Clean Water Act of 1972 (40 CFR, Pts. 100-140 and 400-470; DOE Order 5400.5)
CWCGP	Cool Water Coal Gasification Project

CWDF	Central Waste Disposal Facility
CWE	current working estimate
CWFOO	Central Work for Others Office
CWM	1. Center for Waste Management 2. chemical waste management
CWMD	Central Waste Management Division
CWMO	Central Waste Management Office
CWP	comprehensive work plan
CWSA	Containerized Waste Storage Area
CWSF	Chemical Waste Storage Facility
CWSS	Community Water Supply Survey
cwt	hundredweight [convert to SI: kilogram (kg)]
CX	Categorical Exclusion
CXE	charge-exchange excitation
CY	calendar year
cyl	cylinder
CYRTF	Coal Yard Runoff and Treatment Facility
CYWP	Current Year Work Plan
CZ	Clear Zone (USAF)
CZMA	Coastal Zone Management Act of 1972
°C	degrees Celsius [Celsius scale was formerly called centigrade; although the SI "°C" is preferred, to convert (°C) to customary (degrees Fahrenheit [°F]), multiply °C by 9/5 (or 1.8) and add 32]

# D

3-D	three-dimensional
d	1. day
	2. deuterium ("D" is preferred; also $^2\text{H}$ , $\text{H}_2$ , or $\text{H}^2$ )
D	1. debye
	2. deuterium (preferred over "d"; also $^2\text{H}$ , $\text{H}^2$ , or $\text{H}_2$ )
	3. dyne (also dyn) [convert to SI: newton (N)]
D.C.	District of Columbia [use after (city of) Washington except in ZIP code addresses]
D.F.	degrees of freedom (of, e.g., error term) (math)
D.S.	Doctor of Science
D-D	deuterium-deuterium (also DD)
D-T	deuterium-tritium (also DT)
D/A	digital-to-analog
D/H	deuterium/hydrogen (ratio)
D/P	differential pressure (also $\Delta P$ and $dP$ )
D&D	1. decontamination and decommissioning
	2. decontamination and dismantlement
D&I	1. disassembly and inspection
	2. dosimetry and instrumentation
D&T	development and technology
D2PC	an atmospheric dispersion model computer program
D <sub>2</sub> O	heavy water
DA	1. Dayton Area Office (DOE)
	2. U.S. Department of the Army
	3. Deposit Administration
	4. design agency
DAA	Defense Authorization Act (1993)
DAAC	Data Center for Atmospheric Trace Gas Cycling
DAC	1. derived air concentration
	2. digital-to-analog converter
	3. distribution automation and control
	4. dimethylacetylenedicarboxylate
DACE	design and computational experiments
DACS	data acquisition and control system
DAF	1. dilution/attenuation factor
	2. DOE Added Factor Tax
DAF/WCTT	DOE Added Factor Tax/Waiver Criteria Task Team (WFO)
DAIN	Department of the Army Information Network
DAIS	Database Access Integration Services (EPRI)
DAM	Demand Assessment Model
DAMA	Demand-Activated Manufacturing Architecture
DAPC	Division of Air Pollution Control (Tennessee)
DARA	disposal area remedial action
DARCOM	Development and Readiness Command (U.S. Army)
DARE	Demand and Resource Evaluation (HRCF program)
DARPA	Defense Advanced Research Projects Agency
DAS	1. data acquisition system
	2. Data and Analysis Section
	3. disturbance analysis system
DASCAR	Data Acquisition System for Crash Avoidance Research
DATS	Drill and Transfer System
DAVACS	DOE Automated Visitor Access Control System

DAW	1. dispense as written
dB	2. dry active waste
DB	decibel
	1. data base (Although many authors prefer "database," most dictionaries still list it as two words.)
	2. Davis-Bacon (Act of 1931)
	3. diversion box
	4. dragbody
	5. dry-bulb (temperature)
DB/MP	data base management plan
dB(A) or dBA	decibels as recorded on the A-weighted scale of a standard sound level meter
DBA	1. Data Base Administrator (U.S. Army)
	2. Davis-Bacon Act of 1931
	3. design-basis accident
	4. dibasic acid
DBC	d-bundle converter
DBE	1. design-basis earthquake
	2. design-basis event
	3. dibasic ester
DBF	design-basis fire
DBFL	design-basis flood
dbh	diameter at breast height
DBM	data base management
dBm	decibels greater than (or less than) 1 mW
DBMS	data base management system
DBP	dibutylphosphate
DBS	Direct Braille Slate
DBT	design-basis tornado
DBTS	ductile-to-brittle transition strain rate
DBTT	ductile-to-brittle transition temperature
DBW	design-basis wind
dc	direct current
DC	1. data concentrator (computer)
	2. design criteria
	3. direct cycle
	4. distribution coefficient
	5. District of Columbia (use only with ZIP code addresses)
DCA	1. 1,1-dichloroethene
	2. Defense Communications Agency
	3. dichloroacetylene
DCAA	Defense Contractors Audit Agency
DCC	data concentrator and controller
DCCB	Design Configuration Control Board
DCE	1. data communications equipment
	2. dichloroethylene
	3. Distributed Computing Environment (computer technology)
DCF	dose conversion factor
DCG	derived concentration guideline
DCHP	dicesium hexachloropltanate
DCL	Digital Command Language (VMS)
DCM	design change memorandum
DCOE	Domestic Crude Oil Entitlement
DCP	Drug Control Program (Energy Systems, WSAP)
DCP-OES	direct coupled plasma-optical emission spectroscopy
DCPA	Defense Civil Preparedness Agency (DOD)
DCPD	dicyclopentadiene
DCR	1. distribution control receiver
	2. division classification representative



DCRDR	detailed control room design review
DCRS	DECsystem Capacity Replacement System
DCS	distributed control system
DCSO	division computer safety officer
DCT	discrete cosine transform
DD	1. deuterium-deuterium (also D-D) 2. division director
DD/NSWC	Dahlgren Division, Naval Surface Warfare Center, Coastal Systems Station (formerly NCSC)
DD&D	Defense Decontamination and Decommissioning Program
DDACS	Distributed Data Acquisition and Control System
DDC	distribution dispatch center
DDCE	design duty cycle event
DDD	direct distance dialing
DDE	dynamic data exchange
DDG	distillers' dried grains
DDGS	distillers' dried grains with solubles
DDN	Defense Data Network
DDR	decontamination, disposal, and recycle
DDRP	Direct/Delayed Response Project
DDS	1. development direct support 2. Document Delivery Service (libraries)
DDT	dichlorodiphenyl-trichloroethane
DE	1. Delaware (use only with ZIP code addresses) 2. dose equivalent 3. drum equivalent
dE/dt	rate of evaporation
DEA	1. Directorate of Housing (U.S. Army) 2. draft environmental assessment (see DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS) 3. Drug Enforcement Agency
DEAA	Data Extraction and Analysis Group
DEAR	U.S. Department of Energy Acquisition Regulation
DEC	Digital Equipment Corporation
DeCAS	Defense Contracts Administration Service
DECnet	Digital Equipment Corporation network
DECAT	Driver Energy Conservation Awareness Training (Program)
DECON	(a nuclear plant decommissioning method)
DEFCON	Defense Readiness Condition
DEFRA	Deficit Reduction Act of 1984
deg	degree (use when unit is not preceded by number)
DEGB	double-ended guillotine pipe break
DEIS	1. Dielectric and Electrical Insulation Society 2. draft environmental impact statement (see DEA, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
Del.	Delaware (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
DELTA	Dynamic Ecological Land Tenure Analysis (ORNL model)
DEM	1. Department of Environmental Management 2. Department of Environmental Monitoring
DEM/VAL	demonstration and validation
DEMO	demonstration reactor
DEMT	director, Emergency Management Team
DENI	Department of Electronic and Nuclear Instrumentation
DEO	director of emergency operations
DEP	Department of Environmental Protection

DEPO	division environmental protection officer
DEQ	Department of Environmental Quality
DEQE	Department of Environmental Quality Engineering
DER	Department of Environmental Regulation (Florida)
DERA	Defense Environmental Restoration Account
DERM	doubly excited reluctance motor
DERP	U.S. Defense Department Environmental Restoration Program
DES	1. Data Encryption Standard
	2. draft environmental statement (see DEA, DEIS, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
det	determinant (math)
DETA	diethylenetriamine
DETEC	Defensive Technology Evaluation Code
DEW	directed-energy weapon
DF	1. dark field
	2. decontamination factor
	3. diesel fuel
DF2	diesel fuel No. 2
DFA	direct fluorescent antibody
DFAMS	Defense Fuels Automated Management System
DFBR	Demonstration Fast Breeder Reactor
DFD	data flow diagram
DFDP	Defense Facilities Decommissioning Program
DFG	(German equivalent of NSF)
DFM	marine diesel fuel
DFO	Director's Findings and Orders
DFP	data facility product
DFS	1. deactivation furnace system
	2. design feature for safety
DFSA	Diesel Fuel Supply Agency
DFSD	division facility and site decommissioning
DFT	1. density functional theory
	2. discrete Fourier transform
DFTE	Dimensional/Functional Test Equipment Facility
DFTS	decant/filtration test system
DFWD	Dissolver Feed House Watchdog Program
dg	decigram
DGM	dissolved gaseous mercury
DGP	Data Gathering Program (BPA)
DH	district heating
DHC	district heating and cooling
DHCD	Data Highway Communications director
DHHS	U.S. Department of Health and Human Services (also HHS)
DHHX	district heating heat exchangers
DHI	data handler and interface
DHR	Daily Headquarters Report (NRC)
DHS	Department of Health Services (California)
DHVL	decay heat vent line
DHW	domestic hot water
diag	diagonal (math)
diam	diameter
DIC	dissolved inorganic carbon
DIES	Design Information Exchange System
DIFR	disabling injury frequency rate (off the job)
DIII-D	Doublet III-D Tokamak
dim	dimension (math)
DIMP	diisopropyl methylphosphonate

DIMS	Data and Information Management System
DIO	Demonstrations and Improved Operations
DIP	dual in-line package
DIPRES	direct press spheroidized feed
DIPS	Dynamic Isotope Power System
DIS	1. Disruption Impact Simulator 2. Distributed Information Services (IMS)
DISA	Defense Information Systems Agency
DISC	direct-injection stratified charge (engine)
DISSPLA	Display Integrated Software System and Plotting Language
DITY	do it yourself (DOD)
DIY	do-it-yourself
dJ/da	ductile tearing resistance
DKD	double-crystal diffraction
DL	design load
DLA	Defense Logistics Agency
DLC	1. dedicated loop controller 2. direct load control
DLD	dark line defect
DLLs	dynamic linked libraries
DLM	disordered local moment
dm	decimeter
DM	1. deep monitoring (wells) 2. design memo 3. dissolved mercury
DM6TP	Data Management 6 Transaction Processing
DMA	1. direct memory access (computer term) 2. Division of Military Applications
DMAG	Data Management and Analysis Group
DMBA	dimethylbenzanthracene
DMBS	Direct Manual Braille Slate
DMC	1. decontamination maintenance cell 2. document management center
DMD	directive management document (DOE)
DME	1. dimethyl ether 2. Distributed Management Environment (computer technology) 3. dropping mercury electrode
DMEL	<i>de minimis</i> exemption level
DMETEG	dimethyl ether of tetraethylene glycol
DMG	Data Methods Group
DMIC	Defense Metals Information Center (BMI)
DML	data manipulation language
DMM	digital multimeter
DMR	discharge monitoring report
DMRHF	Dry Materials Receiving and Handling Facility
DMS	1. Disassembly and Special Materials (Y-12) 2. Division of Materials Sciences (DOE)
DMSO	dimethyl sulfoxide
DMT	dedicated microprocessor tester
DMU	Directives Management Unit (IMS)
DMW	demineralized water
DNA	1. Defense Nuclear Agency 2. deoxyribonucleic acid 3. does not apply
DNAP	Division of Natural Areas and Preserves (state of Ohio)
DNAPL	dense nonaqueous-phase liquid

DNBR	1. departure from nucleate boiling ratio 2. departure from nucleate boiling regime
DNC	delayed neutron counting
dncm	dry normal cubic meter
DNFSB	Defense Nuclear Facilities Safety Board (DOE)
DNL	day/night weighted average noise level
DNR	Department of Natural Resources
DNT	dinitrotoluene
DO	1. development opportunity (DPR) 2. dissolved oxygen
DOC	1. dissolved organic carbon 2. Division of Classification (DOE) 3. U.S. Department of Commerce
DOD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOE/RW	Office of Civilian Radioactive Waste Management (DOE) (also OCRWM; also RW)
DOE-ALO	U.S. Department of Energy, Albuquerque Operations Office (formerly Albuquerque Field Office)
DOE-BES	U.S. Department of Energy-Basic Energy Sciences
DOE-DP	U.S. Department of Energy Defense Programs
DOE-EM	U.S. Department of Energy Environmental Management (OTD)
DOE-ER	1. U.S. Department of Energy Environmental Restoration 2. U.S. Department of Energy-Energy Research
DOE-HQ	U.S. Department of Energy Headquarters
DOE-ID	U.S. Department of Energy-Idaho Falls Operations Office
DOE-NE	U.S. Department of Energy Nuclear Energy
DOE-NP	U.S. Department of Energy-New Production Reactors
DOE-OR	U.S. Department of Energy-Oak Ridge Operations Office (now ORO)
DOE-ORO	U.S. Department of Energy, Oak Ridge Operations Office (formerly Oak Ridge Field Office)
DOE-SR	U.S. Department of Energy-Savannah River Operations Office
DOELAP	U.S. Department of Energy Laboratory Accreditation Program
DOEM	<i>Department of Energy Manual</i>
DOEOA	Department of Energy Organization Act
DOER	Daily Operating Events Report (NRC)
DOF	1. degree(s) of freedom 2. depth of field
DOG	dissolver off-gas
DOI	U.S. Department of the Interior
DOJ	U.S. Department of Justice
DOL	U.S. Department of Labor
DOM	1. dissolved organic macromolecules 2. dissolved organic material
DOP	dioctyl phthalate
DOR	direct oxide reduction
DOS	1. U.S. Department of State 2. disk operating system
DOSAR	Dosimetry Applications Research (Group, HASRD)
DOT	U.S. Department of Transportation
doz	dozen
dP	differential pressure (also $\Delta P$ and D/P)
DP	1. data processing 2. direct procedure 3. discipline procedure 4. defense program 5. Office of Defense Programs (DOE)
dpa	displacements per atom

DPAD	differential perturbed angular distribution
DPC	1. Domestic Policy Council 2. Duke Power Company
DPDMO	Defense Property Disposal Management Office
DPE	demilitarization protection ensemble
DPEIS	draft programmatic environmental impact statement (see DEA, DEIS, DES, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
DPG	<i>Document Preparation Guide</i>
dph	diamond-pyramid hardness (test) (preferred over "DPH")
DPH	diamond-pyramid hardness (test) ("dph" is preferred)
DPI	deuterium pellet injector
dpm	disintegrations per minute
DPM	1. digital panel meter 2. direct procurement method
DPMA	Data Processing Management Association
DPMM	Division of Production and Materials Management (DOE)
DPMS	1. differential pressure measurement system 2. direct-probe mass spectrometer
PDPD	diphenyl p-phenylene diamide
DPR	Development Planning and Review (Committee) (Energy Systems)
DPS	dynamic pore size
DPX	DNA-protein cross-links
DQO	data quality objective
DQP	Data Quality Program (Environmental Restoration)
DR	1. decay ratio 2. deviation request
DRAM	dynamic random access memory
DRB	1. Demonstrated Reserve Base 2. dual-reflective baffle
DRBC	Delaware River Basin Commission
DRC	1. density reactivity coefficient 2. Director's Review Committee (ORNL) 3. division records coordinator
DRDF	Director's Research and Development Fund (ORNL)
DRE	destruction and removal efficiency
DREF	dose rate effectiveness factor
DRG	diagnosis-related group
DRI	Data Resources, Inc.
DRL	Dynamics Research Laboratory (K-25 Site)
DRM	1. Data Resource Management (USN) 2. dynamic resonance method 3. Dynamic Retention Model
DRMO	Defense Reutilization and Marketing Office
DRN	Digital Release Notes
DRP	Demonstration Reprocessing Plant
DRS	Daresbury Recoil Spectrometer (U.K. transferred title to DOE for HRIBF at ORNL)
DRTU	distribution remote terminal unit
DS	Dallas Support Office (DOE)
DSA	1. Decision Systems Analysis (a company name) 2. Doppler shift attenuation
DSACS	Defense Standard Ammunition Computer System (U.S. Army)
DSC	differential scanning calorimetry
dscm	dry standard cubic meter
DSD	Decontamination Services Department (K-25)
DSDP	deep-sea drilling projects
DSEO	Data Systems Engineering Organization (see DSRD)

DSETAP	Decentralized Solar Energy Technology Assessment Program
DSG	dispersed storage and generation
DSI	Drillers Services, Inc.
DSIR	Department of Scientific and Industrial Research
DSITMS	direct-sampling ion-trap mass spectrometry
DSM	1. demand-side management 2. Disassembly and Special Materials (Y-12)
DSO	division safety officer
DSP	digital signal processing
DSRD	Data Systems Research and Development (Program, DSEO)
DSRS	Decision Systems Research Section
DSS	decision support system
DSSEA	Division of Site Safety and Environmental Analysis (NRC)
DSSF	double-shell slurry feed
DST	double-shell tank
DT	deuterium-tritium (also D-T)
DT&E	demonstration, testing, and evaluation
DTA	differential thermal analysis
DTB	data transfer bus
DTBS	dynamic trip bus subsystem
DTC	1. differential thermocouple 2. division telecommunications coordinator
DTE	1. data terminal equipment 2. demonstration, test, and evaluation 3. dissipative trapped-electron
DTER	Drawing Transfer Engineering Release
DTF	Drop Test Facility
DTFT	discrete-time Fourier transform
DTIC	Defense Technical Information Center
DTL	Decommissioning Technology Laboratory (JAERI)
DTM	1. digital trip module 2. division training manager
DTNSRDC	David Taylor Naval Ship Research and Development Center
DTO	1. deuterium tritium oxygen 2. director of technical operations (Energy Systems)
DTP	1. Defense Technology Program (of SDT) 2. desktop publishing
DTPA	diethylenetriaminepentaacetic acid
DTR	division technical reviewer
DTRC	David Taylor Research Center (now CD/NSWC)
DTS	deficiencies tracking system
DTST	Defensive Technologies Study Team
DTWP	Defense Transuranic Waste Program (DOE)
DU	depleted uranium
DUA	deterministic uncertainty analyses
DUOF	Depleted Uranium Oxide Facility
DUSA	Designated Unclassified Subject Area
DUT	device under test
DUV	deep ultraviolet
DUVAS	Derivative Ultraviolet Absorption Spectroscopy
DUVPL	deep ultraviolet projection lithography
DV	1. Denver Support Office (DOE) 2. digital video
DVI	digital video interleave
DVM	distributed velocity method
DVP	Data Validation Project (Energy Division)
DWBA	distorted-wave Born approximation
DWBM	Office of Defense Waste Byproducts Management

DWER	defense waste and environmental restoration
DWIA	distorted-wave impulse approximation
DWM	Division of Waste Management (DOE)
DWMP	Defense Waste Management Plan
DWPF	defense waste processing facility
DWPL	Drinking Water Priority List
DWS	drinking water standard
DWT	drop weight
DWTM	Office of Defense Waste and Transportation Management (DOE)
DX	direct expansion
DXGC	direct expansion ground coil
Dy	dysprosium (element, Z = 66)
DYMCAS	Dynamic Special Material Control and Accountability System
dyn	dyne (also D) [convert to SI: newton (N)]
°C	degrees Celsius [Celsius scale was formerly called centigrade; although the SI "°C" is preferred, to convert °C to customary degrees Fahrenheit (°F), multiply °C by 9/5 (or by 1.8) and add 32]
°F	degrees Fahrenheit [convert to SI: degrees Celsius (°C); to convert °F to °C, multiply °F by 5/9 (or by 1.8) and subtract 32]
°R	1. degrees Rankine 2. degrees Reaumur
ΔP	differential pressure (also dP and D/P)

E	electric field
e.g.	<i>exempli gratia</i> (for example) (use only in parentheses or footnotes, followed by a comma)
E.M.	electromagnetic
E-beam	electron beam (also EB)
E-CTFE	ethylene-chloro-trifluoroethylene
E-field	electric field
E-MAD	engine maintenance assembly and disassembly
E/C	energy-to-cost ratio
E/D	encoder-to-digital
E/GNP	total energy divided by gross national product
E&ET	Energy and Environmental Technologies (programs) (ORNL)
E&HCD	Environmental and Health Compliance Division
E&HPD	Environmental and Health Protection Division (formed June 1988)
E&M	Engineering and Maintenance Division
E&MT	Engineering and Manufacturing Technologies (programs) (ORNL)
E&OSD	Environmental and Occupational Safety Division
E&SA	environmental and safety activity
E <sup>3</sup>	electromagnetic environmental effects
EA	environmental assessment (see DEA, DEIS, DES, DPEIS, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
EAAR	Economists Allied for Arms Reduction
EAB	1. Energy Advisory Board 2. exclusion area boundary
EAC	1. Economic Adjustment Committee 2. Employee Account Code 3. Empowerment Assistance Council (IMS) 4. Environmental Advisory Committee (Energy Systems) 5. estimate at completion
EACT	Emergency Action and Coordination Team
EAD	1. electroacoustic dewatering 2. environmental assessment determination
EADS	Engineering Analysis and Design Synthesis
EAL	emergency action level
EAM	1. Environmental ALARA Memorandum 2. exercise and monitoring
EAO	Education Assistance Office (Energy Systems)
EAP	1. Educational Assistance Program 2. Employee Assistance Program
EAR	environmental ALARA review letter
EARA	1. Educational Assistance Reimbursement Application (form) 2. Equipment Authorization Review Activity
EARL	Environmental ALARA Review Letter
EARS	1. Electronic Authorization and Routing System 2. Environmental Activities Reporting System
EAS	Environmental Analysis Section (ESD)
EASC	Emergency Avoidance Solidification Campaign (ORNL)
EATT	Evaluation and Technology Transfer (Energy Division, ORNL)
EAW	environmental assessment worksheet (see DEA, DEIS, DES, DPEIS, EA, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)



EB	electron beam (also E-beam)
EB-I	electron beam separator (AVLIS)
EBA	1. evaluation basis audit 2. Extended Batch Language
EBC	Existing Building Center (Energy Division, ORNL)
EBCA	U.S. Department of Energy Board of Contract Appeals
EBIL	Electron Beam Injector Laboratory
EBR	Experimental Breeder Reactor
EBR-II	Experimental Breeder Reactor II
EBS	1. Elmo bumpy square 2. Emergency Broadcasting System 3. Emergency Broadcast Station (FEMA) 4. Enrichment Business Services 5. environmental baseline survey
EBT	Elmo Bumpy Torus
EBT-S	Elmo Bumpy Torus-scale
EBTP	Elmo Bumpy Torus Proof of Principle
EBWR	Experimental Boiling Water Reactor
EC	1. employee convenience (work schedule) 2. Energy Concepts Company 3. energy constant 4. energy cost 5. environmental compliance 6. environmental control 7. European Community 8. evaporative cooling
EC&A	Engineering Coordination and Analysis Section (CTD)
EC <sub>50</sub>	effective concentration for a specific response in 50% of a given population (see LC <sub>50</sub> , LCLO, LD <sub>50</sub> , and LDLO)
ECA	energy conversion area
ECAB	Elder Citizens Advisory Board (City of Oak Ridge)
ECAD	electrical characterization and diagnostics
ECAMP	Environmental Compliance Assessment and Management Program (USAF)
ECAO	Environmental Criteria and Assessment Office (Cincinnati)
ECC	1. Eastman Chemical Company 2. Emergency Control Center 3. emergency core cooling 4. Energy Conservation Coalition
ECCP	Equivalent Cost Contract Price
ECCS	emergency core cooling system
ECD	1. effective cutoff diameter 2. electron capture detector
ECE	1. electron-cyclotron emission 2. Environmental Consulting Engineering (Knoxville)
ECG	1. electrochemical grinding 2. Environmental Compliance Group
ECH	1. electron cyclotron heating 2. engine compartment heater
ECIP	Energy Conservation Investment Program
ECL	1. emitter control logic 2. emitter-coupled logic
ECM	1. electrochemical machining 2. embedded cluster method
ECMS	Employee Concerns Management System (DOE/Energy Systems)
ECO	energy conservation opportunity
ECOP	Energy Conservation Opportunity Program
ECOR	estimate of cost and obligation requirements
ECOS	Environmental Compliance Online System (ORNL)

ECP	1. electron channeling pattern 2. Employee Communications Program (Energy Systems) 3. Employee Concerns Program (Energy Systems) 4. engineering change proposal 5. Environmental Compliance Program
ECPA	Electric Consumers Protection Act of 1986
ECR	1. electron cyclotron resonance 2. Employee Concerns Reporting (DOE-ORO) 3. Engineering Change Request
ECRH	electron cyclotron resonance heating
ECRP	Employee Concerns/Response Program (Energy Systems)
ECRS	Event Classification and Reporting System
ECRWP	East Chestnut Ridge Waste Pile
ECS	1. Employee Communication Survey 2. Environmental Compliance Section (OECD) 3. environmental control system
ECSCK	entry control systems card key
ECT	Environmental Control Technology
ECUT	Energy Conversion and Utilization Technologies
ECW	essential cooling water
ECWS	essential cooling water system
ED	electrodialysis
ed.	1. edition [use when preceded by number (e.g., 1st ed.) in citations] 2. editor or edited by (use in citations)
EDA	engineering design activity
EDA/SQL	Enterprise Data Access/Structured Query Language
EDB	ethylene dibromide
EDC	Engineering Design Center
EDD	enforcement decision document
EDE	effective dose equivalent
EDF	1. Electricité de France 2. Engineering Demonstration Facility (PNC, Japan) 3. Environmental Defense Fund
EDF-III	Engineering Development Facility
EDG	emergency diesel generator
EDGe	Engineering, Design, and Geosciences Group
EDI	Electronic Data Interchange
EDIAP	Energy Division Information Analysis Program
EDIS	Engineering Design Information System
EDM	electrodischarge machine
EDMS	Electronic Document Management System
EDP	1. electronic data point 2. electronic data processing 3. engineering development plan
EDPE	electronic data processing equipment
EDR	electric dispersion reactor
EDS	1. energy-dispersive spectroscopy 2. Engineering Development Section (CTD)
EDT	explosive detonation trench
EDTA	1. ethylene diamine tetra-acetic (acid) 2. ethylenedinitrilotetraacetic acid
EDX	energy-dispersive X-ray analysis
EDXS	energy-dispersive X-ray spectroscopy
EE	1. electrical engineering 2. engineering evaluation
EE/CA	engineering evaluation/cost analysis
EEA	Energy and Environmental Applications (Group of TSRS)
EEAS	Energy and Economic Analysis Section (Energy Division, ORNL)

EEC	European Economic Community
EECA	Emergency Energy Conservation Act of 1979
EEE	electromagnetic environmental effect
EEG	electroencephalogram
EEI	1. Edison Electric Institute 2. Electrical Energy, Inc.
EELS	electron energy loss spectral
EEM	exercise evaluation methodology
EEMT	Energy Emergency Management Team
EEO	Equal Employment Opportunity [Energy Systems organization now Office of Work Force Diversity (OWFD)]
EEO/AA	Equal Employment Opportunity/Affirmative Action
EEOAA	Equal Employment Opportunity/Affirmative Action
EEOAC	Equal Employment Opportunity Advisory Council
EEOC	Equal Employment Opportunity Commission
EEPROM	electrically erasable, programmable, read-only memory
EER	energy efficiency ratio
EERC	Energy and Environmental Response Center
EERS	elevated environmental risk summary
EES	1. Electric Energy Systems 2. Energy Extension Service (DOE)
EESC	Energy and Environment Study Conference
EFAB	Environmental Financial Advisory Board
efg	electric field gradient
EFPD	effective full power day
EFMV	estimated fair market value
EFPC	East Fork Poplar Creek
EG	endoglucanase
EGA	enhanced graphics adapter
EGC	equipment grounding conductor
EGCR	Experimental Gas-Cooled Reactor (obsolete)
EGF	epidermal growth factor
EGR	electrographic recorder
EH	1. Environmental Health (DOE) 2. environmental and health protection 3. environmental and health site safety representative (DOE) 4. Office of Environment, Safety, and Health (DOE-HQ)
EH&S	environment, health, and safety (ES&H is preferred)
EHC	electrohydraulic control
EHD	electrohydrodynamic
EHG	energy heat gain
EHP	Office of Environmental and Health Protection (ORNL)
EHPD	Environmental and Health Protection Division
EHS	extremely hazardous substance
EHV	extra-high voltage
EHW	extremely hazardous waste
EHX	emergency heat exchanger
EI	exposure index
EIA	1. Economic Impact Area 2. Electric Industries Association 3. Electronic Industries Association 4. Energy Information Administration (DOE) 5. environmental impact assessment (see DEA, DEIS, DES, DPEIS, EA, EAW, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
EIAP	environmental impact analysis process (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)

EIC	1. Energy Information Center
EID	2. Environmental Information Center (DOE)
EIL	Environmental Impacts Division (DOE)
EINS	environmental impairment liability
EIR	Electronic Information Network System
	1. economic impact region
	2. electric input ratio
	3. exposure information report
EIS	1. Economic Impact Studies (Energy Division)
	2. Electronic Imaging Section (ORNL Photography)
	3. Enterprise Information Services (IMS)
	4. environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
	5. equipment interface system
EIT	Engineer-in-Training
EIVR	1. Engineering Information Visit Request
	2. exchange of information through visits and reports
EJ	exajoule
EK	Eklutna Project Office (DOE)
EKG	electrocardiogram
EKMA	empirical kinetic modeling approach
ELA	Enterprise License Agreement
ELCAP	End-Use Load and Consumer Assessment Program
ELF	extremely low frequency
ELI	Environmental Law Institute
ELMIRD	Electromagnetic Liquid Metal Inclusion Removal Device
ELS	Eastern Lake Survey
ELSS	Environmental, Life, and Social Sciences
EM	1. electromagnetic
	2. engineering mechanics
	3. environmental management
	4. environmental monitoring
	5. event manager
EM/EH	Environmental Management/Environmental Health
EM&CD	Environmental Monitoring and Compliance Department
EMA	Emergency Management Agency
EMAC	Emergency Management Advisory Committee
EMAP	Environmental Monitoring and Assessment Program
EMAT	electromagnetic acoustic transducer
EMC	1. electromagnetic compatibility
	2. environmental monitoring and compliance
	3. Environmental Monitoring Center (ORNL)
EMCASS	Expert Motor Carrier Selection System
EMCML	Electromagnetic Countermeasures Launcher
EMCOM	Environmental Management Career Opportunities for Minorities (DOE program)
EMCS	1. energy monitoring and control system
	2. energy management control system
EMD	1. Emergency Management Department (OLP)
	2. Environmental Management Division
emf	electromotive force
EMF	1. electromagnetic field
	2. electromagnetic force
	3. Electronics Metal Finishing Corporation
	4. Electron Microscope Facility (UT)
EMI	electromagnetic interference
EMIC	Environmental Mutagen Information Center

EMInS	Emergency Management Information System
EMIS	1. Energy Management Information System 2. Engineering Management Information System 3. Enrichment Marketing Information System
EMJR	electronic maintenance job request
EML	Environmental Measurements Laboratory (New York) (DOE)
EML(P)	electromagnetic launch pulse
EMM	electromechanical manipulator
EMMIS	Environmental Monitoring Management Information System
EMP	1. electromagnetic pulse 2. Environmental Management Programs (organization, Energy Systems) 3. environmental monitoring plan
EMPD	Engineering Physics and Mathematics Division
EMRA	Electronics Materiel Readiness Activity
EMS	1. Emergency Management System 2. Emergency Medical Services 3. energy management system 4. Environmental Mutagen Society 5. Essential Multiplexing System 6. ethyl methanesulfonate
EMSA	Electron Microscopy Society of America
EMSC	Eisenhower Mathematics/Science Consortium (AEL)
EMSL	Environmental Monitoring and Support Laboratory
EMST	enhanced multichannel tracking
EMSU	environmental monitoring systems upgrade
EMT	1. electrical metallic tubing 2. electromagnetic technology 3. Emergency Management Team 4. Emergency Medical Team 5. emergency medical technician 6. energy management technology
EMTP	electromagnetic transience program
emu	electromagnetic units ("EMU" is preferred; convert to SI)
EMU	1. electromagnetic units (preferred over "emu"; convert to SI as follows) EMU of capacitance [convert to farad (F)] EMU of current [convert to ampere (A)] EMU of electric potential [convert to volt (V)] EMU of inductance [convert to henry (H)] EMU of resistance [convert to ohm ( $\Omega$ )] 2. Energy Management and Utilization Division (of EPRI)
ENC	1. Exxon Nuclear Corporation (Richland, Washington) 2. equivalent noise current
Energy Systems	Martin Marietta Energy Systems, Inc. (preferred over "MMES")
ENI	Electro Nucleonics, Inc.
ENN	Emergency Notification Network
EnRI	Environmental Retraining and Internship (program of Energy Systems WFRP)
ENS	emergency notification system
ENSO	El Nino/southern oscillation
ENTC	Eastern Nuclear Training Center
ENTOMB	(a nuclear plant demommissioning method)
ENV	equivalent noise voltage
ENVPD	Environmental Protection Division
EO	1. environmental officer 2. equal opportunity 3. Executive Order
EOBS	Enrichment Operations and Business Services
EOC	1. Emergency Operations Center 2. end of cycle

EOCN	Emergency Operations Communications Network
EOD	1. explosive ordnance disposal 2. Explosives Ordnance Depot
EODT	explosive ordnance disposal technology
EOF	1. emergency operations facility 2. end of file 3. end of frame
EOI	expression of interest
EOL	1. end of life 2. end of line
EOLMA	Ernest Orlando Lawrence Memorial Award (DOE)
EOP	1. emergency operating procedure 2. Emission Offset Policy 3. Equipment Operating Procedure
EOPTS	emergency operating procedure tracking system
EOR	enhanced oil recovery
EOY	end of year
EP	1. electronic publisher 2. electronic publishing 3. electrophotographic 4. emergency preparedness 5. Employment Program 6. Energy Policy 7. engineering procedure 8. environmental project 9. environmental protection 11. equilibrium partitioning 10. extraction procedure (RCRA; EPA)
EP&M	Engineering Physics and Mathematics
EPA	U.S. Environmental Protection Agency (preferred over "USEPA")
EPA-V	U.S. Environmental Protection Agency, Region V
EPACT	Energy Policy Act of 1992
EPCA	Energy Policy and Conservation Act of 1975
EPCO	Enrichment Project Coordination Office
EPCP	Equivalent Public-Cost Contract Price
EPCRA	1. Emergency Planning and Community Right-to-Know Act of 1986 (SARA Title III) (40 CFR, Pts. 350, 355, 370, and 372) (see CERCLA, SARA, and SITE) 2. Emergency Planning and Community Right-to-Know Agency
EPD	1. Emergency Planning District 2. Emergency Preparedness Department (ORNL) 3. Energy Programs Division
EPDC	Energy Policy Development and Conservation
EPDF	Electronic Publishing Demonstration Facility (see ADF)
EPDM	1. ethylene-propylene-diene monomer 2. ethylene-propylene terpolymer (also EPT)
EPEDS	Energy Price and Expenditure Data System
EPF	Environmental Protection Facility
EPG	emergency procedure guideline
EPGA	effective peak ground acceleration
EPI	environmental priorities initiative
EPIB	<i>Environmental Protection Information Bulletin</i>
EPIC	1. Engineering Physics Information Center (ORNL) 2. Engineering Projects Information Center
EPIDS	Enlisted Personnel Information Delivery System (USMC)
EPIDSP	Electronic Publishing and Internet Data Servers Project (IMS)
EPIP	Environmental Protection Implementation Plan
EPL	enhanced photoluminescence

EPLD	electrically programmable logic device
EPM	<i>Environmental Protection Manual</i>
EPMD	Engineering Physics and Mathematics Division (ORNL)
EPN	external point name
EPNL	effective perceived noise levels
EPO	environmental protection officer
EPP	<ol style="list-style-type: none"> <li>1. Employee Protection Program (DOE)</li> <li>2. Energy Policy and Planning</li> <li>3. Energy Policy Project</li> <li>4. Environmental Protection Program</li> </ol>
EPPC	Edge Physics and Particle Control
EPDP	Energy Planning and Policy Development
EPPIP	Environmental Protection Program Implementation Plan
EPR	<ol style="list-style-type: none"> <li>1. electrochemical potentiokinetic reactivation</li> <li>2. electron paramagnetic resonance</li> <li>3. ethylene propylene rubber</li> <li>4. experimental power reactor</li> </ol>
EPRI	Electric Power Research Institute (Palo Alto, California)
EPROM	<ol style="list-style-type: none"> <li>1. electronically programmable read-only memory</li> <li>2. erasable, programmable, read-only memory</li> </ol>
EPS	<ol style="list-style-type: none"> <li>1. experiment protection subsystem</li> <li>2. expanded polystyrene</li> </ol>
EPSCOR	Experimental Program to Stimulate Competitive Research (NSF)
EPSEP	Environmental Protection, Safety, and Emergency Planning (Office) (DOE)
EPSSC	Ecological and Physical Sciences Study Center
EPT	ethylene-propylene terpolymer (also EPDM)
EPTT	Extraction Procedure Toxicity Test (replaced by TCLP)
EPW	<ol style="list-style-type: none"> <li>1. electron plasma wave</li> <li>2. end-point weighing/weight</li> </ol>
EPZ	emergency planning zone
EPZGA	effective peak zero ground acceleration
EQ	environmental qualification
Eq(s).	Equation(s) (use only when followed by number)
EQAB	Environmental Quality Advisory Board (Oak Ridge)
EQUEL™	Embedded Query Language (trademark of Relational Technology, Inc.)
EQUEL/C™	Embedded Query Language written in C (trademark of Relational Technology, Inc.)
equiv	equivalent
Er	erbium (element, Z = 68)
ER	<ol style="list-style-type: none"> <li>1. electrorefining</li> <li>2. Energy-Related Health Research Laboratory</li> <li>3. energy research</li> <li>4. engineering release</li> <li>5. environmental report (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)</li> <li>6. environmental restoration</li> <li>7. Environmental Restoration (Program)</li> <li>8. Office of Energy Research</li> <li>9. Office of Environmental Restoration (DOE)</li> </ol>
ER&D	energy research and development
ER&WM	environmental restoration and waste management
ERA	<ol style="list-style-type: none"> <li>1. ecological risk assessment</li> <li>2. Economic Regulatory Administration (DOE)</li> <li>3. expedited response action</li> </ol>
ERAA	emergency readiness assurance appraisal
ERAB	Energy Research Advisory Board (DOE)

ERAP	1. Emergency Readiness Assurance Plan
	2. Environmental Remedial Action Project
ERC	1. Earth Resources Corporation
	2. Electric Research Council
	3. emergency relocation center
	4. Emergency Response Center
ERCP	Emergency Response Concept Plan
ERCS	emergency response cleanup services
ERD	1. Ecological Research Division (DOE OHER)
	2. Environmental Restoration Division (ORNL)
ERDA	U.S. Energy Research and Development Administration (succeeded AEC; now DOE)
ERDAM	<i>Energy Research and Development Administration Manual (now Department of Energy Manual)</i>
ERDMC	Environmental Restoration Document Management Center (ERWM)
ERDP	Environmental Review and Documentation Program
ERDS	Environmental Review and Documentation System
erf	error function (math)
ERF	emergency response facility
erfc	error function complement (math)
ERFCS	emergency response facility computer system
ERFDADS	emergency response facility data acquisition and display system
ERFIS	emergency response facility indication system
ERFU	1. Environmental Restoration and Facilities Update
	2. Environmental Restoration and Facilities Upgrade (program)
ERIP	Energy-Related Inventions Program [DOE/DOC(NBS)]
ERIS	1. economic resource impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
	2. Emergency Resources Identification System
	3. Exoatmospheric Reentry Interceptor System
ERISA	Early Retirement Income Security Act of 1974
ERL	emergency response level
ERLE	excess research laboratory equipment
ERM	1. Electric Research and Management (a company name)
	2. environmental and radiological monitoring
ERMA	Environmental Restoration Monitoring and Assessment Program
ERMC	Environmental Restoration Management Contractor
erms	electron root mean square
ERO	1. Emergency Response Organization
	2. Environmental Response Organization
	3. Environmental Restoration Organization
EROM	electronically alterable read-only memory
ERP	Environmental Restoration Program
ERPG	Emergency Response Planning Guideline
ERPS	Environmental Restoration Program Support (WMRAD)
ERR	Efficiency and Renewables Research Section (Energy Division, ORNL)
ERRAIS	Environmental Restoration and Remedial Action Information System
ERS	1. Economic Research Service (USDA)
	2. Emergency Radio System
	3. Energy Research Section (CTD)
ERTA	Economic Recovery Tax Act of 1981
ERWM	Environmental Restoration and Waste Management (Program)
ERWMP	Environmental Restoration and Waste Management Programs
ERWMTD	Environmental Restoration and Waste Management Technology Development
Es	einsteinium (element, Z = 99)



ES	1. Econometric Society 2. emission spectrometry 3. engineering specification 4. engineering standard
ES&H	environment, safety, and health (preferred over "EH&S" and "EHS")
ES&HC	Environment, Safety, and Health Compliance
ESA	1. Ecological Society of America 2. Endangered Species Act of 1973 3. Energy Security Act of 1980 4. Enterprise Systems Architecture 5. Entomological Society of America 6. Environmental and Safety Activities (ORNL organization) 7. European Space Agency
ESAAB	Energy Systems Advisory Acquisition Board
ESAF	Energy Systems Award Fee (DOE)
ESAMS	Energy Systems Action Management System
ESAP	Energy Systems Analytical Projects (office)
ESAR	Energy Systems acquisition review
ESARG	<i>Energy Systems Administrative Reference Guide</i>
ESC	1. Ecological Study Center 2. Electrical Safety Committee
ESCA	electron spectroscopy for chemical analysis (also XPS)
ESCBA	escape self-contained breathing apparatus
ESCO	1. energy service company 2. Energy Systems Conference Office
ESD	1. electrostatic discharge 2. Environmental Sciences Division (ORNL)
ESDC	Environmental Sciences Division Complex
ESDI	enhanced small device interface
ESDS	Enclosed Space Detector System
ESE	Energy Systems Evaluation
ESECRP	Energy Systems Employee Concerns/Response Program
ESEERCO	Empire State Electric Energy Research Corporation
ESEGP	Energy Systems External Gopher Project
ESEO	Energy Systems Engineering Organization
ESF	1. engineered safeguards feature 2. engineered safety feature 3. Engineering-Scale Facility 4. Environmental Support Facility
ESFA	engineered safety feature actuation
ESFAC	engineered safety feature actuation cabinet
ESFAS	engineered safety feature actuation system
ESFC	Energy Systems Finance College
ESFS	engineered safeguards feature system
ESFSM	Energy Systems facility safety manager
ESG	Environmental Sampling Group
ESH	environment, safety, and health ("ES&H" is preferred over "ESH" and "EH&S")
ESH&QA	environmental, safety, health, and quality assurance
ESHC	Environmental, Safety, and Health Compliance Directorate
ESHCH	Environmental, Safety, and Health Concerns Hotline (ORNL)
ESHECRS	Employee Safety, Health, and Environmental Concerns Response System (Energy Systems)
ESHQC	Environment, Safety, Health, and Quality Committee (Energy Systems)
ESHR	Energy Systems Human Resources
ESHU	environmental, safety, and health upgrade
ESIC	Ecological Sciences Information System
ESIF	Energy Systems Inventors Forum

ESLI	Elementary Science Leadership Institute (NSF)
ESMP	Energy Systems Mentor Program
ESN	<i>Energy Systems News</i>
ESnet	Energy Systems Network
ESO	Engineering Service Order
ESP	<ol style="list-style-type: none"> <li>1. earth-surface potential</li> <li>2. electrostatic precipitation</li> <li>3. Energy Systems Procedure</li> <li>4. Enrichment Safeguards Program</li> <li>5. environmental sampling procedure</li> <li>6. Environmental Surveillance Procedure</li> <li>7. Exploratory Studies Program (ORNL) (now LDRDP)</li> </ol>
ESPIP	Efficient Separations and Processing Integrated Program (DOE)
ESQIS	Energy Systems Quality Information System
ESR	<ol style="list-style-type: none"> <li>1. electron spin resonance</li> <li>2. environmental surveillance report (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)</li> </ol>
ESRA	Envelope Systems Research Apparatus
ESRI	Environmental Systems Research Institute
ESRM	Energy Systems Records Manager
ESS	Energy Systems Standard
EST	Energy Systems Toastmasters
estd	estimated
ESTD	<ol style="list-style-type: none"> <li>1. Energy Systems Telecommunications Department</li> <li>2. Energy Systems Training and Development (ESHR)</li> </ol>
ESTSC	Energy Science and Technology Software Center
esu	electrostatic units ("ESU" is preferred; convert to SI)
ESU	<p>electrostatic units (preferred over "esu"; convert to SI as follows)</p> <p>ESU of capacitance [convert to farad (F)]</p> <p>ESU of current [convert to ampere (A)]</p> <p>ESU of electric potential [convert to volt (V)]</p> <p>ESU of inductance [convert to henry (H)]</p> <p>ESU of resistance [convert to ohm (<math>\Omega</math>)]</p>
ESV	Energy Systems Values
ESWMO	Energy Systems Waste Management Operations
ESWP	Energy Systems Wellness Program
ET	evapotranspiration
ET&I	Engineering, Test, and Inspection (Organization, K-25)
et al.	et alii (and others)
et seq.	and the following
ETA	<ol style="list-style-type: none"> <li>1. engagement training aid</li> <li>2. estimated time of arrival</li> </ol>
ETAC	Enrichment Technology Applications Center (became ATD; now ETD)
ETBE	ethyltertiary butyl ether
ETC	<ol style="list-style-type: none"> <li>1. Energy Technology Center</li> <li>2. environmental test chamber</li> </ol>
ETCAWIS	East Tennessee Chapter of the Association for Women in Science
ETCHPS	East Tennessee Chapter Health Physics Society
ETD	<ol style="list-style-type: none"> <li>1. Engineering Technology Division</li> <li>2. expected time of departure</li> </ol>
ETEC	Energy Technology Engineering Center
ETF	<ol style="list-style-type: none"> <li>1. Engineered Test Facility</li> <li>2. Equipment Test Facility</li> </ol>
ETFE	ethyl-tetrahydro-furfuryl ether
ETGS	East Tennessee Geological Society
ETI	Education Technology Institute
ETIC	Environmental Teratology Information Center

ETIL	East Tennessee Indian League
ETIS	Environmental Technology Information Services (HAZWRAF)
ETJ	extraterritorial jurisdiction
ETMIUG	East Tennessee MapInfo Users Group
ETMPA	East Tennessee Minority Professionals Association
ETMSDG	East Tennessee Mass Spectrometry Discussion Group
ETNG	East Tennessee Natural Gas
EtO	ethylene oxide
ETP	1. Emergency Technology Program 2. Environmental Technology Programs
ETPMI	East Tennessee Project Management Institute
ETPCUG	East Tennessee Personal Computer Users Group
ETR	Engineering Test Reactor
ETRA	East Tennessee Resource Agency
ETRC	Engineering Test Reactor Critical (Facility)
ETS	1. Emergency Telecommunications Service 2. environmental tobacco smoke
ETSA	electron transport system activity
ETSC	Emergency Technical Services Corporation
ETSTAC	East Tennessee Special Technology Access Center
ETV	electrothermal vaporization
eu	entropy unit
Eu	europium (element, Z = 63)
EU	enriched uranium
EUCF	Enriched Uranium Conversion Facility (Y-12)
EUCFM	Enriched Uranium Conversion Facility Modification (Y-12)
EUDAT	End-User Data Access Tools (OSIM committee)
EUI	extended user interface
EUO	Enriched Uranium Operations
EURATOM	European Atomic Energy Community
EURI	Enriched Uranium Recovery Improvement (Program) (Y-12)
EURO	Enriched Uranium Recovery Operations
Eurodif	European Gaseous Diffusion Uranium Enrichment Consortium
EUT	equipment under test
EUTUG	End-User Tool User Group (Energy Systems)
EV	electric vehicle
eV	electron volt [convert to SI: joule (J); sometimes "eV" is accepted by Energy Systems]
EVA	extra-vehicular activity
EWB	1. Emergency Waste Basin 2. etched wiring board
EWDA	Energy and Water Development Appropriations Act
EWFP	Engineered Waste Form Program (ORNL)
EWICS	European Workshop for Industrial Computer Systems
EWO	Electronic Warfare Officer (DOD)
EWWW	External World Wide Web (Energy Systems)
EXAFS	extended X-ray absorption fine structure
EXELFS	extended electron energy loss fine structure
exp	1. experiment 2. experimental 3. exponential function (math)
EXPS	extruded polystyrene
EZ	Exclusion Zone

F	1. Fahrenheit
	2. farad
	3. fluorine (element, Z = 9)
f.o.b.	free on board
F&BM	Finance and Business Management (Division) (ORNL)
FA	Fermi National Accelerator Laboratory
FAA	1. Federal Aviation Administration
	2. Food Additives Amendment of 1958 (FDCA)
FAAPC	Field Artillery Ammunition Processing Center
FAB	Fabrication (Division)
FAC	1. final acceptance of construction
	2. free available chlorine
	3. fuel adjustment charge
	4. full avoided cost
FACE	free-air CO <sub>2</sub> exposure
FADC	facility analog-to-digital converter
FAF	facility antialiasing filter
FAO	Food and Agriculture Organization
FAQs	frequently asked questions
FAR	1. Federal Acquisition Regulation
	2. Federal Aviation Regulations
FARS	Future Armor Rearm System
FARV	Future Armored Resupply Vehicle (U.S. Army)
FAS	French Academy of Sciences
FAST	Flow and Analysis System for Transportation (Model)
FASTER	Fluorocarbon Absorption System for Effluents from Reprocessors
FAT	1. factory acceptance test
	2. functional acceptance test
FATLC	Fernald Atomic Trades and Labor Council
FAX	facsimile transmission
FB	Federal Building
FBA	Federal Bar Association
FBC	fluidized bed combustion
FBH	flat-bottom hole
FBI	Federal Bureau of Investigation
FBI SAC	FBI special agent in charge
FBM	field bus module
FBR	Fast Breeder Reactor
FBT	Fused Biconically Tapered (coupler)
FBTF	Flow Blockage Test Facility (Advanced Neutron Source)
FC	1. fluorine and carbon (refrigerant)
	2. fuel cost
FCA	1. Flood Control Act of 1944
	2. functional configuration audit
FCAP	Facilities Capability Assurance Program
FCB	forms control buffer
fcc	face-centered cubic
FCC	1. Federal Communications Commission
	2. Federal Construction Council
	3. fluid catalytic cracking
FCCSET	Federal Coordinating Council for Science, Energy, and Technology
FCCV	Future Command and Control Vehicle

FCD	1. feed conversion demonstration (AVLIS)
FCF	2. Flaw Calibration Device
	1. Feed Conversion Facility
	2. Fuel Cycle Facility
FCG-TEM	field commission gun transmission electron microscope (HTML, ORNL)
FCI	fuel-coolant interaction
FCO	final change order
FCP	field command post
FCPA	Foreign Corrupt Practices Act
FCR	fixed change rate
FCRF	Field Change Request Form
FCTL	Forced Convection Test Facility
FD	1. Fire Department (CS&H)
	2. fuel damage
	3. functional description
FDA	1. facility disposal area
	2. U.S. Food and Drug Administration (HHS)
FDAR	facility data and approval record
FDCA	Food, Drug, and Cosmetics Act of 1938
FDDI	Fiber Distributed Data Interface
FDER	Florida Department of Environmental Regulation
FDF	Feed Demonstration Facility
FDI	Fluor Daniel, Inc.
FDER	Florida Department of Environmental Regulation
FDM	finite difference method
FDNY	frequency-doubled neodymium YAG (yttrium-aluminum-garnet)
FDO	fee determination official
FDOP	Facility Description and Operations Plan
FDS	fuel disassembly system
FDU	fluorescent display unit
Fe	iron (element, Z = 26)
FE	1. facility engineering
	2. finite element
	3. fossil energy
	4. Fossil Energy Program (DOE)
FEA	1. Federal Energy Administration
	2. final environmental assessment (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
	3. finite-element analysis
FEARTDP	Fossil Energy Advanced Research and Technology Development Program (DOE)
FEC	Federal Express Corporation
FED	Fusion Energy Division
FED ISX	Fusion Energy Research and Development Program Impurity Study Experiment
FEDC	Fusion Engineering Design Center
<i>Fed. Regis.</i>	<i>Federal Register</i> (use in reference lists; use "FR" in text with numbers)
FEEP	Fossil Energy Environmental Project
FEI	Financial Executives Institute
FEIC	Fossil Energy Information Center
FEIS	final environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
FEL	free-electron laser
FEM	finite element method

FEMA	1. Finite Element Model of Material Transport Through Aquifers
FEMP	2. U.S. Federal Emergency Management Agency 1. Federal Energy Management Program
FENDL	2. Fernald Environmental Management Project (formerly FMPC)
FEP	3. Fossil Energy Materials Program Fusion Evaluated Nuclear Data Library
FERC	1. fluorinated ethylene-propylene copolymer
FERN	2. Fossil Energy Program
FES	3. tetrafluoroethylene-hexafluoropropylene copolymer Federal Energy Regulatory Commission Fernald Site Office (DOE)
FeS	1. Federal Executive Schedule
FeS <sub>2</sub>	2. final environmental statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
FESA	iron sulfide 1. iron disulfide
FESEM	2. pyrite 1. Front-End System Analysis
FET	2. U.S. Army Facilities Engineering Support Agency Forced Entry Safeguards Effectiveness Model
FETEP	1. field-effect transistor
FETS	2. folded entry type Fossil Energy Technology Environmental Program
FEW	Facilities Energy Technology Service (U.S. Army)
FEWA	Federally Employed Women
FF	Finite Element of Water Flow through Aquifers
FFA	flip-flop (or bistable multivibrator)
FFCA	Federal Facilities Agreement
FFDCA	Federal Facilities Compliance Agreement
FFE	Federal Food, Drug, and Cosmetic Act
FFM	Federal Field Exercise
FFP	Fuel Failure Mockup
FFRDC	firm fixed price (contract)
FFT	federally funded research and development center
FFTF	fast Fourier transform
FGD	Fast-Flux Test Facility
FGGE	flue gas desulfurization
FHA	First Global GARP Experiment
FHAA	Federal Housing Administration
FHS	Fair Housing Amendments Act of 1988
FHWA	fuel handling system
FI	Federal Highway Administration
FIC	flow increase
FICA	Federal Identification Card
FID	Facility Interface Capability Assessment
FIFA	1. field interface device
FIFO	2. flame ionization detector
FIFRA	fissions per initial fissile atom
Fig(s).	first in first out (buffer)
FII	Federal Insecticide, Fungicide, and Rodenticide Act of 1947 (USDA)
FIM	Figure(s) [use when followed by number(s); spell out at beginning of sentence] Foreign Intelligence Information
FIM-AP	1. field-ion microscopy
FIMA	2. Fluidization Indicator Module
FIMIS	field-ion-microscope atom probe fissions per initial metal atom Fire Inspection Management Information System

FIN	1. financial identification number (NRC)
FIP	2. Fish Information Network (data base)
FIPS	federal implementation plan
FIR	Federal Information Processing Standards (NIST)
	1. far-infrared
	2. finite impulse response
FIS	1. federal interim storage
	2. Financial Information System (data base)
	3. fluoroimmunosensor (fiber-optic based)
	4. fuel identification system
	5. Funding Information System
FIT	1. field investigation team
	2. Fix-It Team
	3. flight instrument trainer
FIVRS	Financial Information Variance Reporting System
FL	Florida (use only with ZIP code addresses)
Fla.	Florida (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Miami)
FLA	full-load amperes
FLC	Federal Laboratory Consortium
FLES	facility local emergency supervisor
FLM	federal land manager (e.g., National Park Service)
FLS	first-line supervisor
FLOPS	floating-point operations per second (measure of computer processing ability)
FLOT	front line of own troops
FLP	fixed log periodical
FLPMA	Federal Land Policy and Management Act
FLRA	Federal Labor Relations Authority
Fm	fermium (element, Z = 100)
FM	1. facility manager
	2. Factory Mutual System
	3. field manager
	4. frequency modulation
FMCS	Federal Mediation and Conciliation Service
FMD	Facilities Management Division (formerly MUD) (Y-12)
FMEA	failure mode and effects analysis
FMECA	failure-mode effect and criticality analysis
FMECAs	failure-modes effects and criticality analyses
FMEF	Fuels and Materials Examination Facility
FMF	Federal Methanol Fleet
FMFIA	Federal Managers Financial Integrity Act
FMIT	Fusion Material Irradiation Test
FMLA	Family and Medical Leave Act of 1993
FMO	1. Facilities Maintenance Organization (Energy Systems)
	2. Facilities Management Organization (Y-12)
FMP	1. Facility Management Plan
	2. friction microprobe
	3. U.S. Navy Fleet Modernization Program
FMPC	Feed Materials Production Center (now Fernald Environmental Management Project)
FMR	Field Material-Handling Robot
FMS	1. Finance, Materials & Services Division (PGDP)
	2. flexible manufacturing system
FMT	field monitoring team
FN/GSO	Foreign National/Guest Services Office
FNA	French National Academy
FNAL	Fermi National Accelerator Laboratory

FNARS	FEMA National Radio System
FNATS	FEMA National Teletype System
FNO	Foreign National Office
FN/GSO	Foreign National/Guest Services Office
FO	fiber-optic
FOAM	Fates of Aromatics Model
FOB	federal office building
FOCI	foreign ownership, control, and influence
FOF	Factory of the Future
FOIA	Freedom of Information Act of 1966
FONSI	finding of no significant impact
FOR	Fiber Optics Ring (computer system)
FORAST	Forest Response to Anthropogenetic Stress (model)
FORCM	Fiber Optic Refrigeration Cycle Monitor
FORET	Forest of East Tennessee (model)
FORPS	Forth-based production system
FORSCOM	Forces Command (U.S. Army)
FORTTRAN	formula translation
FOS	Funding Opportunities System
FOV/WIMC	Fiber-Optic Vehicle Weigh-in-Motion and Classification (system)
fp	freezing point
FP	<ol style="list-style-type: none"> <li>1. fire protection</li> <li>2. flash point</li> <li>3. fuzzy (logic) production</li> </ol>
FP&L	Florida Power & Light Company
FPA	<ol style="list-style-type: none"> <li>1. Federal Power Act of 1920</li> <li>2. focal plan array</li> <li>3. Fusion Power Associates</li> </ol>
FPC	Federal Power Commission
FPD	Fort Peck District (DOE)
FPDF	Finishing Process Development Facility
FPDL	Fission Product Development Laboratory
FPED	Fire Protection Engineering Department (OLP)
FPEIS	final programmatic environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
FPICE	free-piston internal-combustion engine
FPM	<i>Federal Personnel Manual</i>
FPMCS	Four-Plant Medical and Industrial Hygiene Computer System
FPO	<ol style="list-style-type: none"> <li>1. File Purpose Only (internal document)</li> <li>2. Fleet Post Office</li> </ol>
FPP	field planning proposal
FPPA	Farmland Protection Policy Act of 1981
FPPC	fixed-price prime contractor
FPPU	first pilot production unit
FPR	<ol style="list-style-type: none"> <li>1. Federal Procurement Regulations</li> <li>2. Fuel Processing Restoration</li> </ol>
fps	<ol style="list-style-type: none"> <li>1. foot-pound-second (measurement system) (replaced by SI)</li> <li>2. frames per second</li> </ol>
FPS	<ol style="list-style-type: none"> <li>1. Fine Particle Society</li> <li>2. Floating Point System</li> </ol>
FPSC	fixed-price subcontractor
FPSE	free-piston Stirling engine
FPSE/HP	free-piston Stirling engine heat pump (also FPSEHP)
FPSEHP	free-piston Stirling engine heat pump (also FPSE/HP)
FPT	first production train
FPU	<ol style="list-style-type: none"> <li>1. first production unit</li> <li>2. floating point unit</li> </ol>



FQA	facilities quality assurance
Fr	1. francium (element, $Z = 87$ ) 2. franklin [convert to SI: coulomb (C)]
FR	<i>Federal Register</i> (use with numbers in text; use " <i>Fed. Regis.</i> " in reference lists)
FR	1. facility representative 2. frame reset
FRA	1. Federal Railroad Administration 2. Formerly Restricted Area
FRACAS	facility radiation and contamination alarm system
FRC	1. Federal Regional Center 2. Federal Response Center
FRD	1. Formerly Restricted Data (classification) 2. Fuel Recycle Division [now Robotics and Process Systems Division (RPSD)] (ORNL)
FRERP	Federal Radiological Emergency Response Plan
FRG	Federal Republic of Germany
FRHOB	flame-retention-head oil burner
FRK	fiberglass-reinforced kraft paper
FRLP	fast reciprocating Langmuir probe
FRMAC	Federal Radiological Monitoring and Assessment Center
FRMAP	Federal Radiological Monitoring and Assessment Plan
FRMS	facility radiation monitoring system
FRP	1. fiber-reinforced plastic 2. fiberglass-reinforced plastic (tanks)
FRPCC	Federal Radiological Preparedness Coordinating Committee
FRRPA	Forest and Rangeland Renewable Planning Act of 1974
FS	1. feasibility study 2. firearms safety 3. Food Services 4. Forest Service (USDA) 5. fractional savings 6. full scale
FS-EIS	feasibility study—environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, PA/SI, PDEIS, PDES, PEIA, PEIS, and SEIS)
FSA	Food Security Act of 1981
FSAR	final safety analysis report
FSD	Foundation for Science and Disability (AAAS affiliate)
FSE	facility safety evaluation
FSEAG	Facility Safety Evaluation Application Guide
FSER	facility safety evaluation report
FSET	Facility Safety Evaluation Team
FSEV	Full-Scale Experimental Voloxidizer (facility)
FSI	1. full-scale input 2. furnace sorbent injection
FSM	Facility Safety Management/Manager
FSN	federal stock number
FSO	full-scale output
FSV	Fort St. Vrain (location of reactor)
ft	foot [convert to SI: meter (m)]
ft <sup>2</sup>	square foot [convert to SI: square meter (m <sup>2</sup> )]
ft <sup>3</sup>	cubic foot [convert to SI: cubic meter (m <sup>3</sup> ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
FT	1. Fourier transform 2. full time
ft-c	footcandle [convert to SI: lux (lx)]
ft-L	footlambert [convert to SI: candelas per square meter (cd/m <sup>2</sup> )]

ft-lb	foot-poundal [convert to SI: joule (J)]
FTA	field task agreement
FTC	Federal Trade Commission
FTCA	Federal Tort Claims Act
FTE	1. full-time employee 2. full-time equivalent
FTIR	Fourier transform infrared
FTMS	Fourier transform mass spectrometer
FTP	1. Fast Track Program (SDI) 2. field task proposal 3. File Transfer Protocol (computer term)
FTP/A	field task proposal/agreement
FTR	1. Fast Test Reactor 2. federal travel regulations
FTRC	Federal Telecommunications Records Center
FTS	1. Federal Telecommunications System 2. Flight Telerobotic Servicer
FTU	1. first training unit 2. flight test unit 3. Formazin turbidity unit 4. Frascati Tokamak Upgrade
FTW	Flying Training Wing (USAF)
FTX	field training exercise
FUA	Fuel Use Act of 1978
FUIT	Federal Unemployment Insurance Tax
FUSRAP	Formerly Utilized Sites Remedial Action Program
fvcl	vacancy cluster fraction
FVA	frit vent assembly
FVCA	frit vent cup assembly
FVS	Fighting Vehicle System (DOD)
FW	feedwater
FWA	Fish and Wildlife Agency
FWB	first wall and blanket
FWCA	Fish and Wildlife Coordination Act of 1958
FWCD	fast-wave current drive
FWG	1. folded waveguide 2. functional working group
FWHM	full width at half maximum
FWM	food web model
FWMS	Federal Waste Management System
FWP	field work proposal
FWP/A	Field Work Package/Agreement
FWPCA	Federal Water Pollution Control Act of 1972
FWS	U.S. Fish and Wildlife Service
FY	fiscal year
FYI	for your information
FYTD	fiscal year to date
FZ	float zoned
*F	degrees Fahrenheit [convert to SI: degrees Celsius (*C); to convert *F to *C, multiply *F by 5/9 (or by 1.8) and subtract 32]

# G

g	1. acceleration due to gravity
	2. gram
G	1. gauss [convert to SI: tesla (T)]
	2. giga [billion, prefix ( $10^9$ )]
	3. gilbert [convert to SI: ampere (A)]
g.l.b.	greatest lower bound ("GLB" is preferred) (math)
g-cm	gram-centimeter
G-M	Geiger-Müller
G-M C	Geiger-Müller counter
g/kg	grams per kilogram
g/t	grams per metric ton
G/O	goals and objectives
G&A	general and administrative (refers to cost accounting)
G&A/GPS	general and administrative and general plant services (refers to cost accounting)
G&W	Gulf and Western
ga.	gauge
Ga	gallium (element, $Z = 31$ )
Ga.	Georgia (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Atlanta)
GA	1. chemical nerve agent (Tabum)
	2. General Atomic (a company name)
	3. Georgia (use only with ZIP code addresses)
GAAP	generally accepted accounting principles
GaAs	gallium arsenide
GAC	1. General Advisory Committee
	2. Goodyear Aerospace Corporation
	3. granulated activated carbon
GAF	glass absorption filter
GAIA	GUI-Driven Application Interchange Architecture
gal	gallon [convert to SI: cubic meters ( $m^3$ ), which is preferred over liters (L); see restrictions listed under "L" for "liter"]
gal/min	gallons per minute [convert to SI: cubic meters per second ( $m^3/s$ ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
GAMETAG	Global Atmospheric Measurements Experiment of Tropospheric Aerosols and Gases
GAO	1. General Accounting Office
	2. goal achievement objective
GARP	Global Atmosphere Research Project
GAT	Goodyear Atomic Corporation
GATE	GARP Atlantic Tropic Experiment
GATERS	ground-air telerobotics system
GATF	Graphic Arts Technical Foundation
GATT	General Agreement on Tariffs and Trade
GAUGE	General Automation Users Group Exchange
GAX	1. generator-absorber heat exchange (cycle)
	2. generator-absorber heat pump exchange
GB	1. chemical nerve agent (Sarin)
	2. gigabyte
	3. glove box

GBD	gas bubble disease
GBL	Government Bill of Lading
GBR	gas breeder reactor
g <sub>c</sub>	gravitational constant
gc	gigacycle [spell out; convert to SI: gigahertz (GHz)]
GC	1. Garrett Corporation 2. gas chromatograph/chromatography
GC-MS	gas chromatograph-mass spectrometer
GC/MS	gas chromatography/mass spectrometry
GCC	1. gasification combined cycle 2. generalized consistency checking
GCCP	Global Climate Change Program (DOE)
gcd	greatest common divisor (preferred over "GCD") (math)
GCD	1. greater confinement disposal (technology) 2. greatest common divisor ("gcd" is preferred) (math)
GCEP	Gas Centrifuge Enrichment Plant/Project
GCFR	gas-cooled fast reactor
GCHP	1. ground-coil heat pump 2. ground-coupled heat pump
GCM	General Circulation Model (Department of Energy/Department of Agriculture)
GCMC	Global Climate Modeling Code (CHAMMP)
GCO	1. Generation Certificate Official (waste generation) 2. generator certification official 3. generator-certified official
GCP	generator-certified person
GCPO	Gas Centrifuge Project Office
GCR	gas-cooled reactor
GCRP	Gas-Cooled Reactor Program
GCT	Ground Challenge Code (PFS)
Gd	gadolinium (element, Z = 64)
GD	Graphics Division (IRA)
Gd <sub>2</sub> O <sub>3</sub>	gadolinium oxide
GDA	Generalized Dataset Allocator (computer program)
GDC	1. General Design Criteria (DOE 6430.1A) 2. General Dynamics Corporation 3. glow discharge cleaning
GDE	gaseous diffusion enrichment
GDG	generation data group (computer term)
gdp	gallons per day per person [convert to SI: cubic meters per second per person (m <sup>3</sup> /s per person), which is preferred over liters per second per person (L/s per person); see restrictions listed under "L" for "liter"]
GDP	1. gaseous diffusion plant 2. Geoecology Data Project 3. gross domestic product
GDR	giant dipole resonance
GDS	Graphics Development Section (C&TS)
Ge	germanium (element, Z = 32)
GE	General Electric Company
GEAT	General Employee Access Training (RRD)
GEC	Government Enrichment Corporation
GEDI	guided electromagnetic defensive interceptor
GEEI	Global Energy Efficiency Initiative
GEIS	generic environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)
GEM	1. (not an abbreviation; word derived from "gammas, electrons, and muons") 2. Graduate Degrees for Minorities in Engineering, Inc.

GeMSDOE	General Medical Sciences (DOE)
GEOM	geographically detailed model
GEOSECS	Geochemical Ocean Sections Study
GEP	good engineering practice
GER	General Employee Retraining (see GET)
GERP	General Employee Radiological Protection
GERT	General Employee Radiological Training
GES	Ground Engineering Systems
GESS	General Escape System Simulation (U.S. Navy)
GET	General Employee Training (see GER)
GFBFPLICE	gas-fueled Braun free-piston linear internal combustion engine
GFCI	ground fault circuit interrupter
GFDL	Goddard Fluid Dynamics Laboratory
GFHP	gas-fired heat pump
GFI	ground-fault interrupter
GFLOPS	billions of floating-point operations per second (measure of computer processing capability)
GFM	government-furnished materials
GFMDL	Gas Flow Metrology Development Laboratory
GHTD	Geothermal and Hydropower Technologies Division
GHz	gigahertz
Gi	gilbert [convert to SI: ampere (A)]
GI	gastrointestinal
GIAS	geographic information and analysis system
GIC	Guaranteed Insurance Contract
GIDEP	Government-Industry Data Exchange Program
GIF	Gamma Irradiation Facility
gigacycle	[do not abbreviate this word; convert to SI: gigahertz (GHz)]
GIS	geographic information system
GISC	Generic Intelligent Control System (SNL)
GISP	Greenland Ice Sheet Program
GISS	Goddard Institute for Space Studies
GIT	1. gastrointestinal tract 2. Georgia Institute of Technology
GJ	1. gigajoule 2. Grand Junction Project Office (also GJPO) (DOE) Grand Junction Project Office (also GJ) (DOE)
GJPO	
GKS	Graphical Kernel System
GL	General Linear (math)
GLAS	Goddard Laboratory of Atmospheric Sciences
glb	greatest lower bound ("GLB" is preferred) (math)
GLB	greatest lower bound (preferred over "glb" and "g.l.b.") (math)
GLCA	Great Lakes Colleges Association
GLCA/ACM	Great Lakes Colleges Association/Associated Colleges of the Midwest
GLEEP	Graphite Low-Energy Experimental Pile (U.K.) (see BEPO)
GLGP	Geothermal Loan Guaranty Program
GLOBE	Global Legislators for a Balanced Environment
GLP	good laboratory practice
gm	gigameter
GM	1. gain margin 2. Geiger-Müller (Geiger-Mueller if $\mu$ is not available) 3. General Merit (U.S. Army) 4. General Motors Corporation
GMA	Great Miami Aquifer
GMCC	Geophysical Monitoring for Climatic Change
GMD	geomagnetic disturbance
GMR	Graduated Mobilization Response
GMT	Greenwich mean time

GNP	gross national product
GNSI	General Nuclear Systems, Inc.
GOC	government-owned container
GOCO	government-owned, contractor-operated (facility/installation)
GOH	Government of Haiti
GOOSE	Generalized Object-Oriented Simulation Environment (computer language)
GOP	Government of Pakistan
GP	general purpose
GPA	grade point average
GPCGP	Great Plains Coal Gasification Plant
gpd	gallons per day [convert to SI: cubic meters per second ( $\text{m}^3/\text{s}$ ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
GPE	1. general plant equipment 2. general-purpose equipment
GPF	1. general plant facility 2. General Protection Fault 3. general-purpose facility
GPHS	general-purpose heat source
GPIB	general-purpose interface bus
gpm	1. gallons per mile [convert to SI: cubic meters per kilometer ( $\text{m}^3/\text{km}$ ), which is preferred over liters per kilometer (L/km); see restrictions listed under "L" for "liter"] 2. gallons per minute [convert to SI: cubic meters per second ( $\text{m}^3/\text{s}$ ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
GPM	1. generalized perturbation method 2. gradient projection method
GPO	Government Printing Office
GPP	general plant project
GPR	ground-penetrating radar
GPS	1. general plant services 2. geopositioning satellite 3. Global Positioning System
GPU	General Public Utilities Corporation
GQM	groundwater quality monitoring
GQR	giant quadrupole resonance
gr/scf	grains per standard cubic foot [convert to SI: kilograms per cubic meter ( $\text{kg}/\text{m}^3$ )]
grad	1. vector operation (math) 2. gradient (math)
GRAIL	Gene Recognition and Analysis Internet Link (system)
grain	[do not abbreviate this word; convert to SI: kilogram (kg)]
GRAS	generally recognized as safe
GRESS	Gradient Enhanced Software System (ORNL)
GRF	global reference frame
GRGL	groundwater residual guidance level
GRI	Gas Research Institute (Chicago, Illinois)
GRIDSS	Global Resource Intelligent Decision Support System
$G_{\text{rms}}$	root-mean-square acceleration
GRS	Gesellschaft für Reaktorsicherheit
GS	General Schedule (U.S. Army)
GSA	1. General Services Administration 2. generator station area 3. Geological Society of America 4. Government Services Administration 5. group snapshot analyzer
GSBCA	General Services Board of Contract Appeals

GSF	1. Gesellschaft für Strahlen und Umweltforschung mbH München 2. gross square feet
GSFC	Goddard Space Flight Center
GSF	1. Gesellschaft für Schwerionenforschung 2. gonadal somatic index
GSMNP	Great Smoky Mountains National Park
GSO	1. goods and services on order 2. Guest Services Office
GST	Gunit storage tank
GSU	Gulf States Utilities
GT	1. gas turbine 2. gigatonne
GTA	gas tungsten arc (welding)
GTCC	greater than Class C (nuclear waste)
GTID	geologically targeted infill drilling
GIC	gigatons (or gigatonnes) of carbon
GTCRP	Global Temperature Change Research Program
GTDA	general technical data available
GTF	1. Ground Test Facility 2. Grout Treatment Facility
GTID	geologically targeted infield drilling
GTO	gate turn-off (thyristor)
GTS	global trip subsystem
GU	Guam (use only with ZIP code addresses)
Guam	(spell out unless used with ZIP code addresses)
GUI	graphical user interface
GVW	gross vehicle weight
GW	1. gigawatt 2. groundwater
GW(e)	gigawatt (electrical)
GWd	gigawatt-day
GWh	gigawatt-hour
GWM	groundwater monitoring
GWP	global warming potential
GWPA	Groundwater Protection Act
GWPM	Groundwater Protection Plan Management Plan
GWPO	Groundwater Program Office
GWPP	1. Groundwater Program Plan 2. Groundwater Protection Program
GWPS	groundwater protection standard
GWTF	Groundwater Treatment Facility
GWSS	Groundwater Supply Survey
GWU	George Washington University
Gy	gray (absorbed dose, energy)
GZ	ground zero

$^2\text{H}$	hydrogen gas or deuterium (also D, d, $\text{H}^2$ , or $\text{H}_2$ )
$^3\text{H}$	hydrogen or tritium (also T, t, $\text{H}^3$ , or $\text{H}_3$ )
h	1. coefficient of heat transfer 2. hour [when used with SI, convert to SI: seconds (s)]
H	1. chemical blister agent (mustard) 2. henry 3. histone (e.g., $\text{H}_2\text{A}$ , $\text{H}_3\text{A}$ , ...) 4. hydrogen (element, $Z = 1$ ) 5. magnetic field 6. magnetizing force
H/A	hand/automatic
H&AO	Honors and Awards Office
H&R	hoisting and rigging
H&S	health and safety
H&SRR	health and safety readiness review
H&V	heating and ventilating
$\text{H}^2$	hydrogen gas or deuterium (also D, d, $^2\text{H}$ , or $\text{H}_2$ )
$\text{H}_2$	hydrogen gas or deuterium (also D, d, $^2\text{H}$ , or $\text{H}^2$ )
$\text{H}_2\text{H}$	highest, second highest
$\text{H}_2\text{O}$	water
$\text{H}_2\text{S}$	hydrogen sulfide
$\text{H}^3$	hydrogen or tritium (also T, t, $^3\text{H}$ , or $\text{H}_3$ )
$\text{H}_3$	hydrogen or tritium (also T, t, $^3\text{H}$ , or $\text{H}^3$ )
ha	hectare
Ha	hahnium (element, $Z = 105$ )
HA	1. Drinking Water Health Advisory 2. heat amplifier
HAD	health assessment document
HALO	high-altitude large optics (DARPA)
HaMTES	Hazardous Materials Transportation Expert System
HAN	hydroxylamine nitrate
HAP	hazardous air pollutant
HARM	Hazard Assessment Rating Methodology
HARM II	Hazardous Airborne Release Monitor, Version II
HAS	heat-actuated system
HASL	Health and Safety Laboratory
HASRD	Health and Safety Research Division (now HSRD) (ORNL)
HAW	high-activity waste
Hawaii	(spell out unless used with ZIP code addresses; state name is not needed with Honolulu)
HAWT	horizontal-axis wind turbine
HAZ	heat-affected zone
HAZCOM	1. hazardous compound 2. hazardous communication
HAZMAT	hazardous material
HAZOP	hazard and operability study
HAZTRAK	Hazardous Materials Tracking Program
HAZWDDD	hazardous waste development, demonstration, and disposal
HAZWOPER	Hazardous Waste Operations and Emergency Response
HAZWRAP	Hazardous Waste Remedial Actions Program
HBCU	historically black colleges and universities
HBRR	high bit-rate recorder



HBT	heterojunction bipolar transistor
HBV	hepatitis B virus
HC	hydrocarbons
HCBP	hexachlorobiphenol
HCBS	1. hexachlorobenzene 2. hexachlorobutadiene
HCF	1. Hydroclave Curing Facility 2. hydrofluorocarbon (refrigerant)
HCFC	hydrochlorofluorocarbon (refrigerant)
HCl	hydrogen chloride
HCLR	heating collector load ratio
hcp	hexagonal close packed
HCP	1. Hearing Conservation Program 2. Heating Conservation Program 3. homocast propylene
HCS	Hazard Communications Standard
HCTC	Heating and Cooling Technology Center (Energy Division, ORNL)
HCTL	hot-cell test loop
HCW	hazardous chemical waste
HD	1. chemical blister agent (distilled mustard) 2. high density
HDD	heating degree-day
HDDR	high-density digital recorder
HDF	hierarchical data format
HDL	Harry Diamond Laboratories
HDM	Hedonic Demand Model
HDO	1. dilute heavy water 2. half-heavy water
HDPE	high-density polyethylene (also PEH)
HDPEX	cross-linked, high-density polyethylene (also PEHX and XHDPE)
HDR	horizontal drive
HDS	hydrostatic design stress
HDTV	1. high-density television 2. high-definition television
He	helium (element, $Z = 2$ )
HE	1. Hanford Environmental Health Foundation 2. heating system conversion efficiency 3. high explosive 4. human error
HEA	1. health and environmental assessment 2. health effects assessment
HEAST	Health Effects Assessment Summary Table
HECP	Herbaceous Energy Crops Program
HED	Human Engineering Laboratory (U.S. Army)
HEDI	high-endoatmospheric defense interceptor
HEDL	Hanford Engineering Development Laboratory
HEDRP	Hanford Environmental Dose Reconstruction Project
HeE	helium embrittlement
HEEP	Health and Environmental Effects Profile
HEF	Hot Experimental Facility
HEGL	high-energy gas laser
HEI	1. Higher Education Institute 2. Hawaiian Electric Industries, Inc.
HEL	1. high-energy laser 2. Human Engineering Laboratory (U.S. Army)
HELB	high-energy line break
HELSTF	High Energy Laser System Test Facility
HEMT	high-electron mobility transistor

HEMTT	Heavy Enhanced Mobility Tactical Truck
HEMP	high-altitude electromagnetic pulse
HEP	Habitat Evaluation Procedures
HEPA	1. high-efficiency particulate absolute (filter) 2. high-efficiency particulate air (filter)
HEPA-F	high-efficiency particulate air filter
HERMIES	Hostile Environment Robotic Machine Intelligence Experiment Series (ORNL)
HESR	heating energy supply rate
HETF	Hot Engineering Test Facility (Japan PNC)
HETP	height equivalent to a theoretical plate
HETS	height equivalent to a theoretical stage
HETUP	Harmonic Energy Transformed to Useful Power
HEU	highly enriched uranium
HEUR	heating energy use rate
HEW	1. high enriched uranium 2. U.S. Department of Health, Education, and Welfare (now HHS)
3HF	3-hydroxyflaverone
hf	high frequency
Hf	hafnium (element, $Z = 72$ )
HF	1. helical field 2. hindrance factor 3. hydrogen fluoride
HFAF	high-frequency antialiasing filter
HFBR	1. High-Flux Beam Reactor (BNL) 2. High Flux Breeder Reactor
HFC	hydrofluorocarbon (refrigerant)
HFEF	Hot Fuel Examination Facility
HFFU	hold for future use
HFIR	High Flux Isotope Reactor
hfs	hyperfine structure
HFT	heat flux transducer
Hg	mercury (element, $Z = 80$ )
HGA	high-gain array
HGDM	Highway Gasoline Demand Model (ORNL)
HGMIS	Human Genome Management Information System
HGMS	high-gradient magnetic separation
HGN	<i>Human Genome News</i>
HGP	Human Genome Project
HHF	high heat flux
HHIRF	Holifield Heavy Ion Research Facility
HHMS	1. Hydrostatic Head Monitoring Station (program) 2. Hydrostatic Head Measuring Station
HHRA	human health risk assessment
HHS	U.S. Department of Health and Human Services (formerly HEW) (also DHHS)
HHV	high heat value
HI	1. Hawaii (use only with ZIP code addresses) 2. heavy ion
HIAA	Health Insurance Association of America
HIBP	heavy-ion beam probe
HIC	high-integrity container
HID	1. helium ionization detector 2. high-intensity discharge
HIFI	HFIR Irradiation Facility Improvement
HILAC	Heavy Ion Linear Accelerator (UCRL)
HILI	Heavy Ion/Light Ion
HIMAC	Heavy-Ion Medical Accelerator (Japan)

HIOS	hardware-independent operating system
HIR	heating input ratio
HISS	Hazelwood Interim Storage Site
HISTRAP	Heavy-Ion Storage Ring for Atomic Physics
HIV	human immunodeficiency virus
HIWDC	Hydrometeorological Information-World Data Center (Obninsk, Russia)
HJTC	heated junction thermocouple
HL&P	Houston Lighting and Power Company
HLCS	high-level control station
HLLM	hot leg level monitor
HLLMS	hot leg level monitor system
HLLV	Heavy Lift Launch Vehicle
HLLW	high-level liquid waste
HLW	high-level waste
HLQ	holocellulose:lignocellulose quotient
HLUT	horizontal look-up table
HLW	high-level waste
HM	hazardous material (MSDS)
HMC	hazardous materials coordinator
HMC&M/HMIS	hazardous materials data base that includes HMIS (DOD repository for MSDS information), SHML, and HMUG
HMCHP	heat-of-mixing chemical heat pump
HMCRI	Hazardous Materials Control Research Institute
HMFSA	Home and Motel Fire Safety Act of 1988
HMI	1. hazardous materials incident 2. human-machine interface
HMIS	1. Hazardous Material Information System 2. Hazardous Material Inventory System
HMMWV	high-mobility multipurpose wheeled vehicle
HMO	health maintenance organization
HMR	Hazardous Materials Regulations
HMRB	Hazardous Materials Regulations Board (DOT)
HMT	hazardous materials transport
HMTA	Hazardous Materials Transportation Act of 1975 (Amendments of 1976)
HMTUSA	Hazardous Materials Transportation Uniform Safety Act
HMUG	Hazardous Material Users Guide
HMW	1. hazardous and mixed waste 2. high molecular weight
HMWMC	Hazardous Materials and Waste Management Consortium
HMWPE	high-molecular-weight polyethylene
HNEI	Hawaiian Natural Energy Institute
HNO <sub>3</sub>	nitric acid
Ho	holmium (element, Z = 67)
HOA	hands-off-automatic
HOB	height of burst
HOC	1. hydrophobic organic compound 2. halogenated organic compound
HOE	Homing Overlay Experiment (U.S. Army)
hom	homology (math)
HOV	high-occupancy vehicle
hp	horsepower [convert to SI: watt (W)]
HP	1. health physics/physicist 2. heat pump 3. Hewlett Packard 4. high performance 5. high pressure 6. hydrolyzed protein (see HPP and TPP)
hp · h	horsepower hour [convert to SI: watts per second (W/s)]

HP&RE	Health Physics and Radiological Engineering
HPAC	high-pressure air compressor
HPAS	Hybrid Pollution Abatement System
HPC	1. heat pump capacity 2. high-performance computing
HPCA	High-Performance Computing Act of 1991
HPCC	High Performance Computing Center (ORNL)
HPCI	high-pressure coolant injection
HPCRC	High Performance Computing Research Center (ORNL)
HPERC	High-Pressure Equipment Review Committee
HPFL	High Performance Fuel Laboratory
HPGe	high-purity germanium
HPGL	Hewlett-Packard Graphics Language
HPIA	Hewlett-Packard Impedance Analyzer
HPIC	Health Physics Instrument Committee
HPIMS	Health Physics Information Management System
HPLC	1. high-performance liquid chromatograph/chromatography 2. high-pressure liquid chromatograph/chromatography
HPMS	Highway Performance Monitoring System
HPO	high phase order
HPOF	high-pressure oil-filled
HPP	1. Health Physics Procedure 2. hydrolyzed plant protein (see HP and TPP)
HPRA	Hydroelectric Power Resources Assessment (FERC)
HPRR	Health Physics Research Reactor
HPRT	hypoxanthine-guanine phosphoribosyl transferase
HPS	1. Health Physics Society 2. high-pressure sodium (lighting systems)
HPSI	high-pressure safety injection
HPT	1. health physics technician 2. high-pressure turbine
HPTF	High Power Test Facility
HPV	high production volume
HPWH	heat pump water heater
HQ	headquarters
HQ/SMT	Headquarters/Supply Maintenance and Transportation
HR	1. heart rate 2. highly reflective 3. high reflectance
HRA	1. hot repair area 2. human reliability analysis
HRB	horizontal radiant barrier
HRCP	Hood River Conservation Project
HRCQ	highway route controlled quantities
HRD	Human Resource Development Department
HRDF	High-Temperature Gas-Cooled Reactor Reprocessing Demonstration Facility
HRE	Homogeneous Reactor Experiment (impoundment)
HRIBF	Holifield Radioactive Ion Beam Facility (ORNL)
HRIN	Human Resources Information Network
HRLAF	High-Radiation-Level Analytical Facility
HRLAL	High-Radiation-Level Analytical Laboratory
HRLCDL	High-Radiation-Level Chemistry Development Laboratory
HRLEL	High-Radiation-Level Experimental Laboratory
HRO	Human Resources Organization (Energy Systems)
HRP	Homogeneous Reactor Project
HRPD	high-resolution powder diffractometer
HRS	Hazard Ranking System (EPA)
HRT	Homogeneous Reactor Test

HRT-2	Homogeneous Reactor Test Number 2
Hs	hassium (element, Z = 108)
HS	hazard screening
HS&E	health, safety, and environment
HS&GW	health, safety and general welfare
HSA	1. Health Studies Agreement (between Tennessee and DOE, effective August 15, 1992) 2. Historic Sites Act of 1935
HSC	1. Health Services Center (Energy Systems) 2. heating seasonal cost
HSD	Health and Safety Division
HSEA	1. Health, Safety, and Environmental Affairs 2. health, safety, and environment assessment 3. Health, Safety, Environment, and Accountability (Organization) (Y-12)
HSEED	Hispanic Summer Educational Experience for the Disadvantaged (program)
HSEOS	hard-sphere equation of state
HSF	heating solar fraction
HSI	Habitat Stability Indices
HSL	Hazardous Substance List (EPA)
HSPF	heating seasonal performance factor (also SPFH)
HSRD	Health Sciences Research Division [formerly Health and Safety Research Division (HASRD)]
HSRR	Health and Safety Readiness Review
HSS	handling, storage, and shipping
HSSI	Heavy-Section Steel Irradiation (Program) (ETD, ORNL)
HSST	Heavy-Section Steel Technology (Program) (ETD, ORNL)
HSWA	Hazardous and Solid Waste Amendments of 1984 (amendments to RCRA)
HT	1. chemical blister agent (distilled mustard and an inorganic compound) 2. hydrogen-tritium
HT-UPS	high-temperature-ultrafine-precipitate-strengthened (steel)
HTA	hypothetical thermal accident
HTC	heated thermocouple
HTFS	Highway Traffic Forecasting System (DOT)
HTGR	high-temperature gas-cooled reactor
HTHSFC	high-temperature, high-sensitivity fission counter
HTML	1. High Temperature Materials Laboratory (ORNL facility; new in 1987) 2. Hypertext Markup Language (subset of SGML used with WWW)
HTO	tritiated water
HTR	high-temperature reactor
HTS	high-temperature superconductivity/superconductor
HTSPC	High Temperature Superconductivity Pilot Center
HTTR	High-Temperature Test Reactor (Japan)
HTU	1. heat transfer unit 2. height of transfer unit
HUD	U.S. Department of Housing and Urban Development
HUR	Huron District Office (DOE)
HUT	hold-up tank
hv	high voltage
HVAC	1. heating, ventilating, and air-conditioning 2. high-voltage alternating current
HVAL	High-Voltage Accelerator Laboratory
HVDC	high-voltage direct current
HVEM	high-voltage electron microscopy
HVI	high-volume impactor
HVIC	high-voltage integrated circuit
HVL	1. half-value layer 2. High-Voltage Laboratory
HVP	hydrolyzed vegetable protein

HW	1. heavy water 2. hot water
HWBEG	Headwater Benefits Energy Gains (FERC model)
HWBF	high-water base fluid
HWC	hazardous waste code
HWCVD	heavy water collection, venting, and draining
HWDMS	Hazardous Waste Data Management System
HWDU	hazardous waste disposal unit
HWEAHRT	Hazardous Waste Expert Advisor and Hypertext Reference Tool
HWERL	1. Hazardous Waste Engineering Research Laboratory 2. Hazardous Waste Environmental Research Laboratory
HWGWTF	Hazardous Waste Ground Water Task Force
HWIE	Hazardous Waste Information Evaluation (Subcommittee of CCEHRP)
HWLDS	heavy water leak detection system
HWM	hazardous waste management
HWMA	hazardous waste management area
HWOCR	heavy-water-moderated organic-cooled reactor
HWOG	Hazardous Waste Operations Group
HWP	Hazardous Waste Program
HWR	heavy-water reactor
HWRAP	Hazardous Waste Remedial Actions Program
HWSA	Hazardous Waste Storage Area
HWSF	Hazardous Waste Storage Facility
HWSTS	heavy water storage and transfer system
HWTC	Hazardous Waste Treatment Council
HWTP	Hazardous Waste Technology Program (ORNL)
HWTS	Hazardous Waste Tracking System
HWUDB	heavy water upgrading and detritiation building
HWUDF	heavy water upgrading and detritiation facility
HWU	hot water usage
HWVP	Hanford Waste Vitrification Plant
HX	heat exchanger
HYPO	Los Alamos (high-power) Boiling Water Reactor
Hz	hertz

# I

I	iodine (element, Z = 53)
i.e.	id est (that is) (use only in parentheses or footnotes, followed by a comma)
i.f.	intermediate frequency
I-CASE	integrated computer-aided software engineering
I/A	intelligent automation
I/I	inject/inhibit
I/O	input/output
I&C	<ol style="list-style-type: none"> <li>1. impact and capability</li> <li>2. instrumentation and control</li> <li>3. Instrumentation and Controls (Division)</li> </ol>
I&E	inspection and evaluation
I&M	installation and materials
I&R	inspection and repair
I <sub>2</sub>	iodine
IA	<ol style="list-style-type: none"> <li>1. Interagency Agreement</li> <li>2. Iowa (use only with ZIP code addresses)</li> </ol>
IAAS	Integrated Analysis and Assessment Section
IABC	International Association of Business Communicators
IAC	Information Analysis Center
IACCB	Indirect Allocations Configuration Control Board
IAD	<ol style="list-style-type: none"> <li>1. Immediate Action Directive</li> <li>2. instrument application diagram</li> </ol>
IAE	integral of the absolute value of the error
IAEA	International Atomic Energy Agency
IAG	interagency agreement
IAH	International Association of Hydrogeologists
IAHE	International Alliance for Higher Education (ORAU)
IAL	Internal Approval Listing
IALLW-CAT	isotope area liquid low-level waste collection and transfer
IAM	International Association of Machinists
IAMAP	International Association of Meteorology and Atmospheric Physics
IAN	instrument application name
IAP	imaging atom probe
IAPI	Office of Intergovernmental Affairs and Public Information
IAPMO	International Association of Plumbing and Mechanical Officials
IAPSO	International Association for the Physical Sciences of the Ocean
IAQ	indoor air quality
IAQCR	Intrastate Air Quality Control Region
IAQP	Indoor Air Quality Program
IAR	isobaric analog resonance
IARC	International Agency for Research on Cancer
IAS	<ol style="list-style-type: none"> <li>1. Information Architecture Specification (Energy Systems)</li> <li>2. isobaric analog state</li> </ol>
(See SIL)	International Association of Theoretical and Applied Limnology
IASCC	irradiation-assisted stress-corrosion cracking
IASTED	International Association of Science and Technology for Development
IATA	International Air Transport Association
IB	<ol style="list-style-type: none"> <li>1. Idaho Branch Office (DOE)</li> <li>2. incipient boiling</li> </ol>
IBA	Industrial Biotechnology Association
IBC	Institutional Biosafety Committee (ORNL)
IBD	Ion Beam Deposition

IBEW	International Brotherhood of Electrical Workers
IBI	index of biotic integrity
ibid.	ibidem (Latin: in the same place)
IBL	incipient boiling level
IBM	International Business Machines
IBS	1. Integrated Booking System 2. internal bremsstrahlung spectrum
IBW	ion Bernstein wave
IBWC	International Boundary and Water Commission
IC	1. impractical to certify 2. incident commander 3. inductance capacitance 4. industrial cooperation 5. institutional control 6. instructional control 7. integrated circuit 8. internal combustion 9. ion chromatography
IC/DRS	Information Center Data Reports System (Y-12)
ICA	1. interim corrective action 2. International Communications Association 3. Inventors Club of America
ICAM	integrated control and measurement
ICAP	inductively coupled argon plasma
ICB	<i>Industrial Cooperation Bulletin</i>
ICBM	Intercontinental Ballistic Missile
ICC	1. inadequate core cooling 2. Information Center Complex 3. Insulated Conductors Committee (IEEE PES) 4. Interstate Commerce Commission
ICCB	Intergovernmental Consultation Coordination Board
ICCI	inadequate core cooling instrumentation
ICCT	innovative clean coal technology
ICD	interface control document
ICE	1. independent cost estimate 2. internal combustion engine
ICENET	Instrumentation and Controls Division Computer Network
ICESUG	Integrated Civil Engineering System Users Group
ICET	Institute for Certified Engineering Technicians
ICF	inertial confinement fusion
ICGG	Illinois Coal Gasification Group
ICH	ion cyclotron heating
ICI	in-core instrumentation
ICIS	Intelligent Configuration Identification System (I&C development for NASA)
ICM	interim corrective measure
ICNS	Information Center on Nuclear Standards
ICOLP	Industry Cooperative for Ozone Layer Protection
ICP	1. incident command post 2. inductively coupled plasma (emission, spectroscopy) 3. Innovative Concepts Program 4. Institutional Conservation Program
ICP-MS	inductively coupled plasma-mass spectrometer
ICP-OES	inductively coupled plasma-optical emission spectroscopy
ICPAEMC	International Commission for Protection Against Environmental Mutagens and Carcinogens
ICPC	International Congress of Pesticide Chemistry
ICPM	Institute of Certified Professional Managers
ICPP	Idaho Chemical Processing Plant



ICPS	inductively coupled plasma spectrophotometry
ICR	1. internal control review 2. irradiation control room
ICREMS	Instrumentation and Controls Research Engineering Management Systems
ICRF	ion cyclotron range of frequencies
ICRH	ion cyclotron resonance heating
ICRP	International Commission on Radiological Protection
ICRU	International Commission on Radiation Units and Measurements
ICS	1. Incident Command System 2. individual control strategy 3. integrated control system 4. Intelligent Cognitive Systems (Group of TSRS)
ICSB	Instrumentation and Control Systems Branch (NRC)
ICSU	International Council of Scientific Unions
ICT	International Critical Tables
ICWM	Institute of Chemical Waste Management
ID	1. Idaho (use only with ZIP code addresses) 2. Idaho Operations Office (DOE) 3. identification 4. inside diameter 5. inventory difference
IDA	Institute for Defense Analysis
IDADS	Interim Data Acquisition and Display System
Idaho	(spell out unless used with ZIP code addresses)
IDB	1. Industrial Development Bond 2. instrument database 3. integrated database
IDC	1. InfoDesign Corporation 2. integrated demonstration coordinator
IDCA	International Development Cooperation Agency
IDCS	Integrated Distribution Control System
IDE	Integrated Drive Electronics
IDEA	International Desalination and Environmental Association
IDES	Intelligent Document Evaluation System
IDF	induced draft fan
IDHA	International District Heating Association
IDIM	inverter-driven induction motor
IDL	1. instrument development loop 2. Interactive Data Language 3. Internal Dosimetry Laboratory (ORP)
IDLH	immediately dangerous to life or health
IDMA	isotopic dilution and mass analysis
IDMS	1. Integrated Database Management System 2. isotope dilution mass spectrometry
IDOD	Interdivisional/Intercompany Operations Directive
IDSA	Industrial Designers Society of America
IDW	investigation-derived waste
IDY	Interim Drum Yard (Y-12 Plant)
IE	instrument engineering
IEA	1. Institute of Energy Analysis (ORAU) 2. International Energy Agency (of OECD)
IEA/ORAU	Institute of Energy Analysis/Oak Ridge Associated Universities
IEB	International Environment Bureau
IEC	International Electric Commission
IECEC	Intersociety Energy Conversion Engineering Conference
IEDMS	Integrated Electric Distribution Management Systems
IEE	1. Information Engineering Environment 2. Institute of Electrical Engineers

IEEE	Institute of Electrical and Electronics Engineers, Inc.
IEF	1. Information Engineering Facility 2. Isotope Enrichment Facility
IEG	Independent Evaluation Group
IEHR	Institute for Evaluating Health Risks
IEI	International Environmental Institute (Hanford)
IEPCP	Institute of Energy Problems of Chemical Physics
IER	independent expert review
IES	Illumination Engineering Society of North America
IET	Integrated Equipment Test
IF	1. intermediate frequency 2. intermittent frequency 3. Inventors' Forum (Energy Systems)
IF&S	integrated fire and security
IFA	information flow architecture
IFAC	International Federation on Automatic Control
IFCAM	Industrial Fuel Choice Analysis Model
IFEL	Irradiated Fuels Examination Laboratory
IFFS	Intermediate Future Forecasting System (EIA)
IFIM	Instream Flow Incremental Methodology (FWS)
IFIPS	International Federation of Information Processing Systems
IFORS	International Federation of Operations Research Societies
IFP	Integrated Forest Program
IFPE	Idaho Fuel Processing Facility
IFR	integrated fast reactor
IFS	1. integrated file storage 2. Integrated Forest Study (on the Effects of Atmospheric Deposition)
IFSM	installation facility safety manager
IFSMTF	International Fusion Superconducting Magnet Test Facility (ORNL)
IFSP	Isotopes Facilities Shutdown Program
IG	1. inspector general 2. Interpretation Guide
IGAS	integrated gas analysis and sensing
IGBP	International Geosphere-Biosphere Programme
IGBT	insulated gate bipolar transistor
IGC	Intermagnetics General Corporation
IGCC	1. Institute of Global Climate Change 2. integrated coal gasification combined cycle 3. intermediate gasification combined cycle
IGES	International Graphics Exchange System
IGO	Inspector General's Office
IGORR	International Group on Research Reactors
IGRIP	Interactive Graphics Robot Instruction Program
IGSCC	intergranular stress-corrosion cracking
IGT	1. Institute of Gas Technology 2. insulated gate transistor
IGU	International Geographical Union
IGUA	International Guards Union of America
IGY	International Geophysical Year
IH	1. industrial hygiene 2. Information Highway
IHD	Industrial Hygiene Division
IHEM	1. in-house energy management 2. In-House Energy Management (Program) (Energy Systems)
IHEMSC	In-House Energy Management Steering Committee
IHMM	Institute of Hazardous Materials Management
IHP	1. Industrial Heat Pump Program 2. Industrial Hygiene Procedure

IHSS	International Humic Substances Society
IHX	intermediate heat exchanger
IIA	Institute of Internal Auditors
IIASA	International Institute for Applied Systems Analysis
IID	intermittent ignition device/intermittent pilot ignition device
IIE	Institute of Industrial Engineers
IL	Illinois (use only with ZIP code addresses)
ILCT	International Large-Coil Task
ILE	inspection-level earthquake
ILF II	Industrial Landfill II (Y-12 Plant)
Ill.	Illinois (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Chicago)
ILL	1. Institut Laue-Langevin (Grenoble, France) 2. Interlibrary Loan (Department) (ORNL)
ILSR	Institute for Local Self-Reliance
ILW	intermediate-level waste
ILWAS	Integrated Lake-Watershed Acidification Study (EPRI)
Im	imaginary (math)
IM	intermodulation
IM-AI	inorganic monomeric aluminum
IMA	Institute of Management Accountants
IMAC	individual microcomputer access control
IMD	Interim Management Directive
IMEASY	Integrated Management and Economic Analysis System
IMET	irradiated materials examination and test
IMGA	Irradiated Microsphere Gamma Analyzer
IMHP	ice-maker heat pump
IMI	infield methanol immersion
IMIS	1. Integrated Marketing Information System 2. Inventory Management Information System
I <sub>mm</sub> or IMM	modified Mercalli intensity
IMOG	Interagency Mechanical Operations Group
IMP	intramembranous protein particle
IMPAC	1. Integrated Management Planning and Control (Energy Systems project) 2. ion implantation perturbed angular correlation
IMPP	Improved Multisite Production Program
IMR	Internal Management Review
IMRC	Interdivision Minority Recruiting Committee
IMS	Information Management Services (formerly IRA)
IMSL	Intelligent Measurement Systems Laboratory
IMTT	1. Information Management Task Team 2. Inorganic Membrane Technology Transfer (program at K-25 Site)
In	indium (element, Z = 49)
IN	Indiana (use only with ZIP code addresses)
in.	inch [convert to SI: centimeter (cm) or meter (m)]
in. <sup>2</sup>	square inch [convert to SI: square meter (m <sup>2</sup> )]
in. <sup>3</sup>	cubic inch [convert to SI: cubic meter (m <sup>3</sup> )]
Inc.	Incorporated
Ind.	Indiana (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Indianapolis)
INE	National Energy Institute (of Ecuador)
INEL	Idaho National Engineering Laboratory (Idaho Falls, Idaho)
inf	1. inferior (math) 2. infimum (math)
INF	Intermediate-Range Nuclear Forces (Treaty)
INFCE	International Nuclear Fuel Cycle Evaluation

INIRC	International Non-Ionizing Radiation Protection Association
INM	Integrated Network Management (Project)
INMM	Institute of Nuclear Materials Management
INMS	Integrated Network Management System
INMTS	International Nuclear Material Tracking System
INPO	Institute of Nuclear Power Operations
INS	1. International News Service 2. U.S. Immigration and Naturalization Service
int	interior (math)
INT	<i>p</i> -iodonitrotetrazolium
INTECOL	International Association for Ecology
INTOR	International Tokamak Reactor
inv	inverse (math)
INZ	immediate notification zone
IO	1. Information Flow and Operation 2. initial(s) only 3. Institute of Oceanology 4. Iowa (use only with ZIP code addresses)
IOC	1. initial operational capability 2. inorganic chemical 3. Interplant Operating Committee
IOP	input/output processor
IOR	ion exchange resin
IOU	investor-owned utility
Iowa	(spell out unless used with ZIP code addresses; state name is not needed with Iowa City)
IP	1. implementation plan 2. industrial participant 3. information processing 4. institutional plan 5. Internet Protocol 6. ionization potential 7. Office of Industrial Progress (DOE)
IPA	Institut für Produktionstechnik und Automatisierung
IPACS	Inertial Power Advanced Concept System
IPBB	Interplant Broadband (network)
IPC	1. Institute of Paper Chemistry 2. integrated protection cabinet 3. Isotopes Processing Complex
IPCC	Intergovernmental Panel on Climatic Change
IPCS	integrated plant control system
ipd	pipe diameter, inches [convert to SI: pipe diameter, meter (m); or pipe diameter, centimeters (cm)]
IPD	Integrated Process Demonstration
IPDP	Isotopes Production and Distribution Program
IPEEE	individual plant examination of external events
IPET	Integrated Prototype Equipment Test
IPFMD	Implementation Planning and Facilities Management Division (K-25)
IPG	immediate participation guarantee
IPM	( <i>p</i> -iodophenyl) maleimide
IPP	1. Independent Power Producer 2. Industry Participation Program 3. International Plant Pathogen
IPP Garching	Max Planck Institut für Plasmaphysik, Garching, Germany
IPR	1. In-Project Review 2. Interdepartmental Purchase Request
ips	inches per second [convert to SI: centimeters per second (cm/s)]

IPS	<ol style="list-style-type: none"> <li>1. Intel Paragon supercomputer (ORNL)</li> <li>2. International Pipe Standard</li> <li>3. interim pumping station</li> <li>4. interim pumping system</li> <li>5. iron pipe size</li> </ol>
IPSO	integrated process status overview
IPT	International Power Technology
IPTS	International Practical Temperature Scale
IPV	instrument pressure vessel
IQ	intelligence quotient
ir	infrared (preferred over "IR")
Ir	iridium (element, Z = 77)
IR	<ol style="list-style-type: none"> <li>1. heat resistance</li> <li>2. incident reporting</li> <li>3. infrared ("ir" is preferred)</li> <li>4. inspection request</li> <li>5. insulation resistance</li> </ol>
IR&A	<ol style="list-style-type: none"> <li>1. independent review and appraisal</li> <li>2. Information Research and Analysis (Section) [became Biomedical and Environmental Information Analysis (Section) (BEIA) September 1989] (HASRD, ORNL)</li> </ol>
IR&D	independent research and development
IRA	<ol style="list-style-type: none"> <li>1. Information Resources and Administration (now IMS) (Energy Systems)</li> <li>2. interim response action</li> </ol>
IRB	<ol style="list-style-type: none"> <li>1. Internal Review Board</li> <li>2. internal review budget</li> </ol>
IRC	<ol style="list-style-type: none"> <li>1. Information Resource Center</li> <li>2. Internal Revenue Code</li> </ol>
IRCEE	Information Resource Center for Energy and Environment
IRD	Instituto de Radioprotecao e Dosimetria (Brazil)
IRG	Independent Review Group
IRGRC	International Research Group on Risk Communication
IRHQ	Institut de Recherche d'Hydro Quebec
IRI	Industrial Research Institute
IRIG	interrange instrumentation group
IRIS	<ol style="list-style-type: none"> <li>1. Integrated Risk Management Facility</li> <li>2. Intellectual Resources Information System</li> </ol>
IRM	Information Resources Management
IRM/SP	<i>Information Resource Management Strategic Plan</i>
IRMD	Information Resource Management Division
IRML	Isotope Research Materials Laboratory
IRMS	<ol style="list-style-type: none"> <li>1. Information Resource Management System</li> <li>2. Integrated Resources Management System</li> </ol>
IRMSC	Information Resource Management Steering Council (Energy Systems)
IRO	Information Resources Organization (now IRA)
IROXS	impact response of oxide scales (technique)
IRP	<ol style="list-style-type: none"> <li>1. Installation Restoration Program</li> <li>2. Integrated Resource Planning</li> </ol>
IRPA	International Radiation Protection Association
IRPM	Information and Records Program Management (now PAD)
IRS	Internal Revenue Service
IS	<ol style="list-style-type: none"> <li>1. individual strength (DPR)</li> <li>2. industrial safety</li> <li>3. interim site</li> </ol>
IS&AHP	Industrial Safety and Applied Health Physics Division
IS&T	innovative science and technology
ISA	<ol style="list-style-type: none"> <li>1. information security audit (DOE)</li> <li>2. Instrument Society of America</li> </ol>

ISAM	Indexed Sequential Access Method
$I_{sc}$	short-circuit current
ISC	1. industrial source complex 2. intelligent system computer
ISCC	intergranular stress corrosion cracking
ISCP	installation spill and contingency plan
ISCST	Industrial Source Complex, Short-Term [air pollution dispersal model (EPA)]
ISD	1. Information Services Division (now part of IMS) 2. instrument system diagram
ISDD	Integrating System Design Description
ISDN	Integrated Services Digital Network
ISE	1. integral of the square error 2. Integrated Space Experiment 3. International Submarine Engineering
ISEATRA	International Symposium on Ecological Aspects of Tree-Ring Analysis
ISEM	1. Inside Safeguards Effectiveness Model 2. International Society for Ecological Modelling
ISFMTF	International Fusion Superconducting Magnet Test Facility
ISFSI	independent spent-fuel storage installation
ISI	1. in-service inspection 2. Integrated Systems, Inc.
ISO	International Organization for Standardization (preferred over "International Standards Organization")
ISOL	isotope separation on-line
ISOO	Information Security Oversight Office
ISP	1. incremental sales proposal 2. Information Systems Plan
ISPO	International Safeguards Project Office
ISRM	International Society for Rock Mechanics
ISS	Industrial Safety Section
ISSCO	Integrated Software Systems Corporation
IST	1. in-service testing 2. in situ treatment
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991
ISTF	Ice Storage Test Facility
ISTM	inspection, surveillance, testing, and maintenance
ISTP	Integrated System Test Plan
ISTIG	intercooled steam-injected gas turbine
ISV	1. in situ vitrification 2. independent software vendor
ISWA	International Solid Wastes Management and Public Cleansing Association
ISX	Impurity Study Experiment
IT	1. International Technology Corporation 2. Internet Technologies
ITA	1. International Television Association 2. International Trade Administration (U.S. Department of Commerce)
ITAE	integral of the time-weighted absolute error
ITC	1. Interagency Testing Committee 2. International Trade Commission
ITCC	International Communications Conference (now STCAC)
ITDS	Integrated Traffic Data System
ITE	Institute for Transuranium Elements (Karlsruhe, Germany)
ITER	1. International Thermonuclear Experimental Reactor 2. International Tokamak Experimental Reactor
ITIS	Integrated Technical Information System
ITMS	ion-trap mass spectrometer
ITO	Installation Traffic Office
ITOS	inspection, test, and operating status

ITP	1. integrated test plan 2. interface and test processor 3. International Technology Programs (K-25 division)
ITPE	Interzone Temperature Profile Estimation
ITR	information technology resources
ITRE	Institute for Transportation Research and Education
ITRI	Inhalation Toxicology Research Institute
ITS	important to safety
ITUG	Internet Technologies Users Group
ITWG	Internet Technologies Working Group
IUC	integrated utility communications
IUCN	International Union for Conservation of Nature and Natural Resources (Switzerland)
IUFRO	International Union of Forest Research Organizations
IUPAC	International Union of Pure and Applied Chemistry
IUPAP	International Union of Pure and Applied Physics
IUR	International Union of Radioecologists
IUUPGWA	International Union, United Plant Guard Workers of America
IV	intravenous
IVFS	in-vessel fuel storage
IVHS	intelligent vehicle highways system
IVI	interactive videodisk instruction
IVP	Integrated Value-Based Planning (project of EPRI)
IWC	1. inches of water column (units of pressure) 2. instream waste concentration
IWCP	Industrial Waste Control Plan (ORNL)
IWMF	Interim Waste Management Facility
IWO	interim waste operation
IWP	International Information/Word Processing
IWS	1. Institute for Water Resources 2. ionized wet scrubbers
IWTP	industrial waste treatment plant
IX	ion exchange
IXR	intelligent transfer restore

J	joule
J.D.	Doctor of Jurisprudence
JAD	Joint Analysis Directorate
JACADS	Johnston Atoll Chemical Agent Disposal System
JAERI	Japan Atomic Energy Research Institute
JAICS	Joint Institute for Applications of Computational Sciences
JARM	JAERI Amphibious Robot Manipulator
JART	Japan Amphibious Robot
JAS	Job Opportunity System Exempt Job Listings (see JOS)
JASPAS	Japan Support Program for Agency Safeguards
JASPER	Japanese-American Shielding Program of Experimental Research
JCAE	Joint Committee on Atomic Energy, U.S. Congress (now dissolved)
JCIST	Joint Center for Information Security Technology (U.S. Department of State)
JCL	Job Control Language (VMS)
JCP	Joint Committee on Printing
JCS	Joint Chiefs of Staff
JDT	Joint Development Team
JEDI	joint electromagnetically launched defensive impactor
JEEP	Joint (Norwegian-Dutch) Establishment (Nuclear Energy Research Environmental Pile (see JENER)
JENER	Joint (Norwegian-Dutch) Establishment (Nuclear Energy Research Environmental Pile (see JEEP)
JESS	Joint Exercise Support System
JET	ORNL-Joint European Torus
JFCP	joint field command post
JFET	junction field-effect transistor
JFTR	Joint Federal Travel Regulations
$J_{lc}$	fracture toughness
JIC	Joint Information Center
JID	Joint Institute Dormitory
JIEE	Joint Institute for Energy and the Environment
JIHIR	Joint Institute for Heavy Ion Research
JILA	Joint Institute for Laboratory Astrophysics
JIO	Joint Integration Office (TRU waste management)
JL	Job Listings (formerly JAS)
JMS	Job Management System
JNACC	Joint Nuclear Accident Coordination Center
JNCP	justification for noncompetitive procurement
JNPT	Johnson Noise Power Thermometer
JOD	joint occupancy date
JOS	Job Opportunity System Nonexempt Job Listings (see JAS)
JOWOG	Joint Working Group
JP	jet propulsion
JPDR	Japan Power Development Reactor
JPIC	Joint Public Information Center
JPL	Jet Propulsion Laboratory (Pasadena, California)
JPSS	Joint Planning Staff for Space
JSA	Job Safety Analysis
JSSAP	Joint Services Small Arms Program
JTA	1. job task analysis 2. Joint Test Assembly
JTAETU	joint test assembly early training unit



JTLS  
JTU  
JUA  
JWS  
JWT

Joint Theatre Level Simulation  
Jackson turbidity unit  
Joint Use Agreement  
joint work statement  
Joint Working Team

k	1. kilo [thousand, prefix ( $10^3$ )] 2. thermal conductivity
K	1. kelvin [plural is kelvins; SI unit of thermodynamic temperature and temperature intervals; do NOT use degrees or degree sign (°) with K for kelvin or kelvins (i.e., 273 K, NOT 273°K)] 2. potassium (element, Z = 19) 3. thousand(s) [when used with dollars, use only when preceded by dollar sign and one or more numbers; use no space between number and K (e.g., \$3K = \$3000 or three thousand dollars)]
K · m	kelvin meter
K-25 Site	Oak Ridge K-25 Site (formerly ORGDP)
kA	kiloampere
$K_a$	value of stress intensity factor shortly after arrest
KACCD	Knoxville Area Community Center for the Deaf
KAFB	Kirtland Air Force Base
Kans.	Kansas (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
KAPL	Knolls Atomic Power Laboratory
KAR	Kentucky Administration Regulations
KAS	Kentucky Academy of Sciences
KAS-KSNPC	Kentucky Academy of Sciences and Kentucky State Nature Preserves Commission
KATIE	Knowledge-Based Assistant for Troubleshooting Industrial Equipment
kB	kilobyte (preferred over "KB" and "kbyte")
KB	kilobyte ("kB" is preferred)
Kbps	thousand bits per second
KBTC	Knoxville Building Trades Council
KBS	Knowledge-Based Systems (section of C&TS)
kbyte	kilobyte ("kB" is preferred)
KC	Kansas City Area Office (DOE)
kcal	kilocalorie [convert to SI: joule (J)]
kCi	kilocurie [convert to SI: becquerel (Bq); sometimes "curie" is accepted by Energy Systems]
KCPA	Kentucky College Placement Association
KDEP	Kentucky Department for Environmental Protection
KDWM	Kentucky Department of Waste Management
KE	1. Kesselring Site Office (DOE) 2. kinetic energy
KEMA	Keuring van Electrotechnische Materialen
ker	kernel (math)
KES	knowledge engineering system
keV	kiloelectron volt [convert to SI: joule (J); sometimes "eV" is accepted by Energy Systems]
KEW	kinetic energy weapon
KFA	Kernforschungsanlage (Jülich, Germany)
KfK	Kernforschungszentrum Karlsruhe (Germany)
kg	kilogram
kg · m	kilogram meter
kg · m <sup>2</sup>	kilogram square meter
kg · m <sup>3</sup>	kilogram cubic meter
kg-wt	kilogram-weight
kHz	kilohertz

KHQ	Kerr Hollow Quarry
$K_I$	stress intensity factor
$K_{Ia}$	crack-arrest fracture toughness $K_{Ia}$ for a crack that arrests under conditions of crack front plain strain
$K_{Ic}$	plain-strain fracture toughness
kip	kilopound (thousand pounds, force) [convert to SI: newton (N)]
KIRC	K-25 Site ERWM Information Resource Center (formerly ATL)
KISMET	Kinematic Simulation, Monitoring, and Off-Line Programming Environment for Telerobotics
kJ	kilojoule
$K_{Jc}$	fracture toughness calculated from the J-integral $J_c$ at the point of cleavage
KKR	Korringa-Kohn-Rostoker approximation method
KLT	Karhunen-Loève transform
km	kilometer
km <sup>2</sup>	square kilometer
KMCFMT	K-25 Site Microcomputing Cross-Functional Management Team
KMS	K.M.S. Fusion (a company name)
knot	[do not abbreviate this word; convert to SI: meters per second (m/s)]
$K_o$	stress intensity factor at crack initiation
KOM	kilometric wavelength
KOSW	Knoxville Office of Solid Waste
$K_{ow}$	octanol-water partition coefficient
KPDES	Kentucky Pollutant Discharge Elimination System
Kr	krypton (element, Z = 36)
KRC	Knoxville Recycling Coalition
KrF	krypton-fluorine
KRITIC	Knowledge-Based Review and Intervention to Impose Constraints (SNL)
KRW	Kellogg-Rust-Westinghouse
KS	1. Kansas (use only with ZIP code addresses) 2. Kansas City Support Office (DOE)
KSA	Knowledge, Skills, and Abilities (U.S. Army)
KSC	Kennedy Space Center
ksi	kilopounds per square inch [convert to SI: pascal (Pa)]
KSNPC	Kentucky State Nature Preserves Commission
KSR	Kendall Square Research
KSU	Kansas State University
kt	kiloton (or kilotonne)
KUB	Knoxville Utilities Board
kV	kilovolt
kV/m	kilovolts per meter
kVA	kilovolt-ampere
kVm	kilovoltmeter
kvar	kilovar (kilovolt-ampere reactive)
kVp	kilovolts peak
kW	kilowatt
kWh	kilowatt-hour
kWh(e)	kilowatt-hour (electrical)
kWh(t)	kilowatt-hour (thermal)
KWU	Kraftwerk Union
KY	Kentucky (use only with ZIP code addresses)
Ky.	Kentucky (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Louisville)
kΩ	kilohm

L	<ol style="list-style-type: none"> <li>1. chemical blister agent (Lewisite)</li> <li>2. lambert [convert to SI: candelas per square meter (<math>\text{cd}/\text{m}^2</math>)]</li> <li>3. liter [cubic meter (<math>\text{m}^3</math>) is preferred; a liter is equivalent to a cubic decimeter (<math>\text{dm}^3</math>); the use of liter is discouraged and is restricted to volumetric capacity, dry measure, and measure of fluids (both gases and liquids); use only milli- (m) or micro- (<math>\mu</math>) as prefixes with liter (L); sometimes "liter" is accepted by Energy Systems]</li> </ol>
L.M.	load management
l.u.b.	least upper bond ("LUB" is preferred) (math)
L-G	line to ground
L-L	line to line
L/D ratio	length-to-diameter ratio
L&GWOD	Liquid and Gaseous Waste Operations Department (ORNL)
La	lanthanum (element, $Z = 57$ )
LA	Louisiana (use only with ZIP code addresses)
La.	Louisiana (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with New Orleans)
LAA	limited access area
LAAO	Los Alamos Area Office (DOE)
LAB	Library Advisory Board (Energy Systems)
LABCOM	U.S. Army Laboratory Command
LACE	Light-Water Reactor Aerosol Containment Experiment
LAE	least absolute error
LAER	lowest achievable emissions rate
LAF	Lake Acidification and Fisheries (EPRI)
LAI	leaf area index
LAM	local air monitor
LAMP	<ol style="list-style-type: none"> <li>1. Lake Acidification Mitigation Project (EPRI)</li> <li>2. LODE Advanced Mirror Program</li> </ol>
LAMPRE	Los Alamos Molten Plutonium Reactor Experiment
LAN	local area network
LANDSAT	land satellite (photographs of ground)
LANL	Los Alamos National Laboratory (formerly Los Alamos Scientific Laboratory)
LANTIRN	low-altitude navigation targeting infrared night
LAP	Laboratory Accreditation Program (DOE)
LASER	light amplification by stimulated emission of radiation
LASL	Los Alamos Scientific Laboratory (now Los Alamos National Laboratory)
lat	latitude
LATA	Los Alamos Technical Associates
LAW	low-activity waste
lb	<ol style="list-style-type: none"> <li>1. pound, avoirdupoise (16 oz) [convert to SI: kilogram (kg)]</li> <li>2. pound, troy (12 oz t) [convert to SI: kilogram (kg)]</li> <li>3. pound, apothecary (12 oz ap) [convert to SI: kilogram (kg)]</li> </ol>
lb-ft	pound-foot [convert to SI: kilogram-meter (kg-m)]
lb/ft <sup>3</sup>	pounds per cubic foot [convert to SI: kilograms per cubic meter ( $\text{k}/\text{m}^3$ )]
lb-in.	pound-inch [convert to SI: kilogram-centimeter (kg-cm)]
lb-mol	pound-mole [convert to SI: kilogram-mole (kg-mol)]
lb <sub>f</sub>	pound force
lb <sub>m</sub>	pound mass
LBAD	Lexington-Bluegrass Army Depot
LBL	Lawrence Berkeley Laboratory (University of California) (now LBNL)

LBNL	Lawrence Berkeley National Laboratory (University of California) (formerly LBL)
LBU	Laboratory Business Unit
LC	1. Library of Congress 2. line-commutated (inverter) 3. liquid chromatographic 4. load characteristics (computer term)
LC <sub>50</sub>	median lethal concentration (lethal concentration for 50% of a given population) (see EC <sub>50</sub> , LCLO, LD <sub>50</sub> , and LDLO)
LCA	Logistic Control Activity (U.S. Army)
LCB	Laboratory Coordination Board
LCBWS	load-cell-based weighing system
LCC	1. Laboratory Communication Center 2. Large Cavitation Channel (USN) 3. life cycle cost
LCCDAAS	Large Cavitation Channel Data Acquisition and Analysis System (ORNL developed for USN)
lcd	least common denominator ("LCD" is preferred) (math)
LCD	1. least common denominator (preferred over "lcd") (math) 2. limiting conditions document 3. liquid crystal display
LCF	latent cancer fatality
LCFS	last closed flux surface
LCLO	lethal concentration low (lowest concentration that is lethal) (see EC <sub>50</sub> , LC <sub>50</sub> , LD <sub>50</sub> , and LDLO)
lcm	least common multiple (math)
LCM	life cycle management
LCMM	Least Cost Mix Model
LCO	1. laboratory certification official 2. limiting conditions for operation
LCP	1. Large Coil Program 2. liquid crystalline polymer (molecular composite)
LCR	1. load collector ratio 2. load control receiver
LCRS	Leachate Collection and Removal System
LCS	limiting control setting
LCT	Large Coil Task (ORNL)
LCTF	Large Coil Test Facility (ORNL)
LCU	1. load control unit 2. local control unit
LCUP	Least-Cost Utility Planning Division (of DOE)
LD	1. Legionnaires' disease 2. low density
LD/DCC	laser diagnostic/data concentrator and controller
LD <sub>50</sub>	median lethal dose (lethal dose for 50% of a given population) (see EC <sub>50</sub> , LC <sub>50</sub> , LCLO, and LDLO)
LDA	1. laser Doppler anemometer 2. local density approximation
LDAP	Lightweight Directory Access Protocol
LDB	legislative data base
LDC	less-developed country
LDF	Laser Demonstration Facility (LLNL)
LDLO	lethal dose low (lowest dose that is lethal) (see EC <sub>50</sub> , LC <sub>50</sub> , LCLO, and LD <sub>50</sub> )
Ldn	average day/night sound level
Ldn y-avg	yearly average day/night sound level
LDPE	low-density polyethylene (also PEL)
LDPEX	cross-linked, low-density polyethylene (also PELX and XLDPE)

LDR	1. land disposal regulation 2. land disposal restrictions 3. Land Disposal Restrictions of 1984
LDRD	Laboratory Director's Research and Development (ORNL)
LDRDP	Laboratory-Directed Research and Development Program (ORNL) [formerly Exploratory Studies Program (ESP)]
LDRO	low-data-rate operation
LDS	leak detection system
LDV	laser Doppler velocimeter/velocimetry
LEAF	Legal Environmental Assistance Foundation
LEAP	1. Large Einsteinium Activation Program 2. Large Experimental Aquifer Program 3. Low-Weight Exoatmospheric Projectile Program
LECS	local economic consequences study
LED	1. Laboratory emergency director 2. light-emitting diode
LEED	low-energy electron diffraction
LEFM	linear elastic fracture mechanics
LEHR	Laboratory for Energy-Related Health Research
LEL	1. lower explosive limit 2. lower exposure limit
LEMF	laser-excited molecular fluorescence
LEP	1. Large Electron Positron (Collider) (CERN) 2. low-energy photon
LEPC	1. Local Emergency Planning Commission/Committee 2. Laboratory emergency preparedness coordinator (ORNL)
LEPS	low-energy photon detectors
Leq	equivalent sound level
LER	Licensee Event Report
LERC	Laboratory Emergency Response Center (ORNL)
LeRC	Lewis Research Center (NASA at Cleveland)
LES	1. linear expenditure system 2. local emergency supervisor
LET	linear energy transfer
LETC	Law Engineering Testing Company
LEU	low enriched uranium
If	low frequency
LF	line feed
LFA	1. lead federal agency 2. Leader Feedback and Action
LFAO	lead federal agency official
LFFTT	load-following free terminal time
LFT	Library Functional Team (Energy Systems)
LGHR	low-grade heat recovery
LGP	Laboratory Graduate Participation
LH <sub>2</sub>	liquid hydrogen
LHCD	lower hybrid current drive
LHD	Large Helical Device
LHe	liquid helium
LHH	lower hybrid heating
LHL	long half-life
LHRE	low-heat rejection engine
Li	lithium (element, Z = 3)
LI	line item
Li/FeS	lithium iron sulfide
Li-MnO <sub>2</sub>	lithium-manganese dioxide
Li-SO <sub>2</sub>	lithium-sulfur dioxide
Li <sub>2</sub> Mn <sub>2</sub> O <sub>4</sub>	lithium manganese oxide

Li <sub>3</sub> PO <sub>4</sub>	lithium orthophosphate
LIBS	laser-induced breakdown spectroscopy
LIC	liquid incinerator
LiCoO <sub>2</sub>	lithium cobalt oxide
LICS	local instrument and control subsystem
LID	laser imaging device
LIDT	laser-induced damage threshold
LIEAP	Low-Income Energy Assistance Program (DOE)
LIF	Logistics Intelligence File (U.S. Army)
LIGO	Laser Interferometer Gravitational Wave Observatory
lim	limit (math)
LIMB	limestone injection multistage burner
lim inf	limit inferior (math)
lim sup	limit superior (math)
LIMS	Laboratory Information Management Systems
LIN	line item number
lin ft	linear foot [convert to SI: meter (m)]
linac	linear acceleration/accelerator
LiNbO <sub>3</sub>	lithium niobate
LINC	Local Information Network Connection
LION	Library System On-Line Network (replaced by OASIS)
LIP	line item project
LiPON	lithium phosphorous oxynitride
LIS	laser isotope separation
LISP	list processing
LIT	Laser Isotope Technology (program)
LITR	Low-Intensity Test Reactor
LKP	Lee-Kesler-Plöcker (model)
LL	Lesson(s) Learned
LLB	<i>Lessons Learned Bulletin</i>
LLC	Lessons Learned coordinator
LLCE	limited life component exchange
LLE	Laboratory for Laser Energetics (University of Rochester)
LLEA	local law enforcement agency
LLFM	low-level flux monitor
LLI	lower large intestine
LLLW	liquid low-level (radioactive) waste
LLLWC	liquid low-level waste concentrate
LLNL	Lawrence Livermore National Laboratory
LLRAG	Low-Level Radiochemical Analysis Group (ACD)
LLRW	Low-Level Radioactive Waste (Disposal Facility)
LLRWPA	Low-Level Radioactive Waste Policy Act
LLRWPAA	Low-Level Radioactive Waste Policy Amendments Act of 1985
LLW	low-level (radioactive) waste
LLW-CAT	low-level waste collection and transfer
LLWD	low-level waste disposal
LLWDD	Low-Level Waste Disposal and Demonstration Program
LLWDDD	Low-Level Waste Disposal Development and Demonstration Facility
LLWDF	1. Low-Level Waste Demonstration Facility 2. Low-Level Waste Disposal Facility
LLWPSS	Low-Level Waste Processing and Shipping System
lm	lumen
LM	1. Laramie Projects Office (DOE) 2. laser melting 3. liquid metal 4. logic modeling
LM-DAC	load management and distribution automation control
LMA	laboratory monitor (alpha)

LMB	laboratory monitor (beta)
LMCR	liquid-metal-cooled reactor
LMF	Laboratory Microfusion Facility
LMFBR	Liquid Metal Fast Breeder Reactor
LMR	liquid-metal reactor
LMSC	Lockheed Missiles and Space Company
LMTD	logarithmic mean temperature difference
LMTO	linear muffin-tin orbital
LMU	1. Lincoln Memorial University 2. local multiplexing unit
ln	natural logarithm (math)
LN <sub>2</sub>	liquid nitrogen
LNG	liquefied natural gas
LOAD	low-altitude defense
LOAEL	lowest observed adverse effect level
LOB	Laboratory Operations Branch
LOC	1. letter of credit 2. loss of coolant
LOCA	loss-of-coolant accident
LODE	Large Optical Demonstration Experiment
LOEP	loss of electric power
LOF	loss of flow
LOFF	loss of forced flow
LOFC	loss of forced convection/circulation
LOFP	loss of flow path
LOFT	loss-of-fluid test
LOFWS	1. loss of flow without scram 2. loss-of-flow-without-scram (test)
log	common logarithm (math)
Log	principal log (math)
LOHS	loss of heat sink
LOI	letter of intent
LOIS	loss of interim status
LOM	<i>Laboratory Operating Manual</i>
long.	longitude
LOP	1. Landfill Operating Permit 2. loan of personnel
LOPC	loss-of-coolant pressure control
LOPO	Los Alamos (low-power) Boiling Water Reactor
LOR	low reiteration (genomic frequency sequence)
LORC	loss of reflector coolant
LORF	loss of reflector flow
LOS	1. level of service 2. line of sight
LOSC	loss of secondary coolant
LOTO	lock out/tag out
LOV	Loveland Area Office (DOE)
LOX	liquid oxygen
LP	1. linear programming 2. link processor 3. liquid propellant 4. loop processor 5. low pressure
LPCE	liquid-phase catalytic exchange
LPD	Laboratory Protection Division (now OLP)
LPDO	Leasing Policy Development Office (DOE)
LPG	1. liquid propane gas 2. liquified petroleum gas



LPGS	liquid pathway generic study
LPI	1. lines per inch
	2. low-pressure impactor
LPR	1. lithium process replacement
	2. lithium process restoration
	3. load profile recorder
LPRM	local power range monitor (see APRM)
LPS	Launch Processing System
LPSI	low-pressure safety injection
LPSRA	limited probabilistic seismic risk assessment
LPT	1. low-pressure turbine
	2. lymphocyte proliferation test
LPZ	low-population zone
LQ	linear quadratic
LQG	linear-quadratic-Gaussian
LQG/LTR	linear-quadratic-Gaussian with loop transfer
LQR	linear-quadratic regulator
Lr	lawrencium (element, Z = 103) (NOT "Lw")
LR	1. line recorder
	2. low range
LRD	Laboratory Records Department
LRM	long-reach manipulator
LRO	long-range order
LROP	Long-Range Operating Plan (Energy Systems)
LRP	1. Landscape Research Project (DOE)
	2. Local Release Point
	3. long-range plan
LRW	liquid radioactive waste
LS	1. least significant
	2. load specification (computer term)
	3. lump sum
LSA	1. limited security area
	2. low specific activity
LSB	least-significant bit
LSC	Life Safety Code
LSCME	large-scale climate-moderating envelopes
LSCS	Large-Scale Climate Simulator (ORNL)
LSCT	Large Superconducting Coil Task
LSD	1. least significant difference
	2. local spin density
LSDA	local spin density approximation
LSI	1. large-scale integration
	2. listing site inspection
LSIC	large-scale integrated circuit/circuitry
LSN	long- and short-normal resistivity (geophysical logging)
LSPT	limited scope performance test
LSPTS	large-scale procurement of temperature sensors
LSS	1. laboratory shift superintendent
	2. large-scale system
LSSC	lump-sum subcontractor
LSSS	limiting safety system settings
LSU	load survey unit
LSV	1. large-scale vehicle
	2. low-signature vehicle
LT	1. laser treated
	2. level transmitter
LTBA	likely to be available
LTC	load-tap changing

Ltd.	Limited (used with company name; comma not needed)
LTER	Long-Term Ecological Reserve (NSF)
LTF	1. letter to file 2. lysimeter test facility
LTH	lethality target hardening
LTHWSF	Long-Term Hazardous Waste Storage Facility
LTi	linear time invariant
LTM	1. Laboratory Telerobotic Manipulator (ORNL) 2. long-term monitoring
LTNIF	Low-Temperature Neutron Irradiation Facility
LTO	1. landing-takeoff 2. Long-Term Operations
LTR	1. loop transfer recovery 2. low-temperature recycling
LTRI	level and temperature recording indicator
LTSF	Lid Tank Shielding Facility
LTT	lymphocyte transformation test
Lu	lutetium (element, $Z = 71$ )
lub	least upper bond ("LUB" is preferred) (math)
LUB	least upper bond (preferred over "lub" and "l.u.b.") (math)
LUFT	leaking underground fuel tank
LUA	lead use assembly
LULAC	League of United Latin American Citizens
LULU	locally undesirable land use
LUST	leaking underground storage tank
LUT	look-up table
LUTI	learn, use, train, inspect (model)
LVDT	linear variable differential transformer
LWA	Lee Wan and Associates, Inc.
LWC	lost-workday cases
LWCIR	lost-workday case incidence rate
LWD	Liquid Waste Disposal, Inc.
LWIC	lost-work injury case
LWIR	longwave infrared
LWOP	leave without pay
LWR	light-water reactor
LWSP	Liquid Waste Solidification Project
lx	lux (plural is "lux" or "luxes")

# M

3MSP	Medicare Major Medical Supplement Plan
m	molal
m	1. meter
	2. milli [one-thousandth, prefix ( $10^{-3}$ )]
M	molar
M	1. mega [million, prefix ( $10^6$ )]
	2. million(s) [when used with dollars, use only when preceded by dollar sign and one or more numbers; use no space between number and M (e.g., \$2M = \$2,000,000 or two million dollars)]
m.	meridiem (12:00 noon)
M.A.	Master of Arts (also A.M.)
M.S.	Master of Science
M.D.	Doctor of Medicine
m · K	meter kelvin
m · kg	meter kilogram
M-G	motor-generator
M-Region	Maunder region
m/s	meters per second
M/U	maintenance/upgrade
M&C	Metals and Ceramics (Division)
M&E	material and equipment
M&IE	meals and incidental expenses
M&H	Mason & Hanger
M&O	1. maintenance and operating
	2. management and operating
M&S	1. Magnetism and Superconductivity
	2. maintenance and surveillance ("S&M" is preferred)
M&TE	measuring and test equipment
m <sup>2</sup>	square meter
m <sup>3</sup>	cubic meter [preferred over liters (L); see restrictions listed under "L" for "liter"]
mA	milliampere
MA	1. management and administration
	2. Massachusetts (use only with ZIP code addresses)
	3. measurement and assessment
	4. mechanically alloyed
MAA	1. Materials Access Area (Y-12 Plant)
	2. Mathematical Association of America
	3. Mutual Assistance Agreement
MAACS	MELCOR Accident Consequence Code System
MAADS	Modular Artillery Ammunition Delivery System (U.S. Army)
MAB	1. Man and the Biosphere
	2. Marine Amphibious Brigade
MAC	1. Management Advisory Council
	2. Manufacturing Analysis Center
	3. Military Airlift Command
MACES	Measurement and Controls Engineering Section (I&C)
MACS	1. Marine Air Corps Station
	2. Mobile Automated Characterization System
MACT	1. maximum achievable control technology
	2. maximum available control technology

MAD	1. maintenance assembly and disassembly 2. Measurement Applications and Development (ORNL office)
MAG	Marine Air Group
MAGIC	Model of Acidification of Groundwater in Catchment
MAGPI	Multi-Agency Working Group on Power Sector Innovation
MAILS	Multiple-Aircraft Instantaneous Line Source (model)
Maine	(spell out unless used with ZIP code addresses)
MAINS	Maintenance Information System
MAJCOM	Major Command
MAJIC	Maintenance, Accountability, Jobs, and Inventory Control System
MALS	Marine Aircraft Logistics Squadron
MAN	Molecular Anatomy (Program)
man-hour	[use "work-hour" (do not abbreviate)]
MANOVA	multivariate analyses of covariance
man-year	[use "work-year" (do not abbreviate)]
MAP	1. Maintenance Administrative Procedure 2. Manufacturing Automation Protocol 3. Mercury Assessment Program 4. multielement imaging atom probe 5. municipal airport
MAP3S	Multistate Atmospheric Power Production Pollution Study
MAP3S/PCN	Multistate Atmospheric Power Production Pollution Study/Precipitation Chemistry Network
MAPA	Middle Atlantic Placement Association
MAPE	mean absolute percent model
MAPP	Modern Aids to Planning Program
MAPS	manpower analysis and planning survey
MAPTIC	Manufacturing and Processing Technology Integration Center
MAR	major assembly release
MARCOR	U.S. Marine Corps
MARF	Mechatronics Applied Research Facility (PNC, Japan)
MARMA	Mid-Atlantic Regional Air Management Association
MAS	1. Microbeam Analysis Society 2. Military Air Service
MASP	mobile automatic scanning photometer
MASS	Mobilization Automated Support System
Mass.	Massachusetts (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Boston)
MAT-WING	Medium Attack Wing
MATCO	Military Air Traffic Coordinating Office
MATCS	Marine Air Traffic Control Squadron
MATD	maximum allowable time delay
MATEX	Matrix Extraction Code
MATS	Military Air Transport Service
MAUC	Materials Analysis User Center (HTML)
MAW	Military Airlift Wing
max	maximum (math)
MAX	Multichannel Narrowband Noise Analysis System Extension (formerly MNNAS)
m <sub>b</sub> or mb	body-wave magnitude
MB	megabyte (preferred over "Mbyte")
MBA	material balance area
MBC	model-based compensator
MBCHDM	Mouse Breeding Center for Human-Disease Models
MBD	million barrels per day [convert to SI: million cubic meters per second (m <sup>3</sup> × 10 <sup>6</sup> /s)]
MBE	molecular beam epitaxy

Mbit	megabit
MBMA	Metal Building Manufacturers Association
MBO	management by objective
MBP	monobutyl phosphate
Mbps	million bits per second
MBR	material balance report
MBtu	million British thermal units [convert to SI: joule (J)]
MBTTC	Minority Business Technology Transfer Consortium (Energy Systems and DOE)
MBWA	management by walking around
Mbyte	megabyte ("MB" is preferred)
MC	<ol style="list-style-type: none"> <li>1. major component</li> <li>2. Management Council</li> <li>3. military characteristic</li> <li>4. mirror coil</li> <li>5. Monte Carlo</li> </ol>
MC&A	material control and accountability
MCA	<ol style="list-style-type: none"> <li>1. Manufacturing Competitiveness Alliance (DOE, TVA)</li> <li>2. maximum credible accident</li> <li>3. Metropolitan Calling Area</li> <li>4. multichannel analyzer</li> </ol>
MCAGCC	Marine Corps Air Ground Combat Center
MCB	<ol style="list-style-type: none"> <li>1. main control board</li> <li>2. Marine Corps Base</li> </ol>
MCC	<ol style="list-style-type: none"> <li>1. master control card</li> <li>2. Materials Characterization Center</li> <li>3. Microelectronics and Computer Technology Center (Austin, Texas)</li> <li>4. module control computer</li> <li>5. Motor Control Center</li> </ol>
MCCB	machine configuration control board
MCCI	molten-core-concrete interaction
MCDEC	Marine Corps Development and Education Command
MCE	<ol style="list-style-type: none"> <li>1. maximum credible event</li> <li>2. Metrology Center of Excellence (Y-12)</li> </ol>
MCF	million cubic feet [convert to SI: million cubic meters ( $m^3 \times 10^6$ ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
MCFC	molten carbonate fuel cell
MCFH	million cubic feet per hour [convert to SI: million cubic meters per second ( $m^3 \times 10^6/s$ )]
mCi	millicurie [convert to SI: becquerel (Bq): sometimes "curie" is accepted by Energy Systems]
MCL	<ol style="list-style-type: none"> <li>1. maximum contaminant level</li> <li>2. maximum contaminant limit</li> <li>3. maximum concentration limit</li> </ol>
MCLG	maximum contaminant level goal
MCM	multichip module
MCP	<ol style="list-style-type: none"> <li>1. Military Construction Program</li> <li>2. mobile command post</li> </ol>
MCPA	Midwest College Placement Association
MCRC	Marine Corps Recruiting Center
MCRD	Marine Corps Recruit Depot
MCS	<ol style="list-style-type: none"> <li>1. Maneuver Control System (U.S. Army)</li> <li>2. Medco Containment Services</li> <li>3. model conservation standards</li> <li>4. multiple chemical sensitivity</li> </ol>
MCSA	motor current signature analysis
MCSC	multichannel scaler chip

MCU	1. master control unit 2. meter control unit
MCV	model containment vessel
Md	mendelevium (element, Z = 101)
MD	1. machine design 2. Maintenance Division (K-25) 3. Maryland (use only with ZIP code addresses)
Md.	Maryland (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Baltimore)
MDA	1. Material Disposal Area 2. minimum detectable activity
MDAC	McDonnell Douglas Astronautics Company
MDB	Munitions Demilitarization Building
MDD	modified direct denitration
MDEG	Model and Data Evaluation Group
MDIF	metal-dielectric interference filter
MDL	1. Mechanical Development Laboratory 2. method detection limit
MDMS	Maintenance Data Management System
MDNR	1. Maryland Department of Natural Resources 2. Missouri Department of Natural Resources
MDP	Methanol Demonstration Program
MDRC	Multichannel Digital Recorder Controller
MDRL	Metrology Research and Development Laboratory
MDS	monitoring and display system
MDSU	Mobile Diving Salvage Unit
MDU	modular disposal unit
ME	1. Maine (use only with ZIP code addresses) 2. Metairie Site Office (DOE)
MEC	Model Energy Code
MECL	Motorola emitter coupled logic
MECS	Minnesota Energy Conservation Service
MED	Manhattan Engineering District
MEE	maximum expected earthquake
MEHC	metallurgical examination hot cell
MEI	1. maximum exposed individual 2. minority educational institution
MEK	methyl ethyl ketone
MEL	1. master equipment list 2. modular electromagnetic levitator
MEL-FS	Multiprogram Energy Lab-Facilities Support Programs
MENS	Mission Element Need Statement
MEOR	microbially enhanced oil recovery
MEP	1. Maintenance Engineering Procedure 2. mobile electric power
MEPAS	Multimedia Environmental Pollutant Assessment System
meq	milliequivalent
MER	medium reiteration (genomic frequency sequence)
MERL	Municipal Environmental Research Laboratory
MESA	Mining Enforcement and Safety Administration (DOI)
MET	Monitoring Engineering Team
METC	1. Medium Energy Technology Center 2. Morgantown Energy Technology Center
METF	Medium Energy Test Facility
METR	Man Equivalent Telerobot
METS	Mechanized Export Traffic System
METS II	Mechanized Export Traffic System II

MEU	1. multiport Ethernet unit (computer term)
MeV	2. medium-enriched uranium megaelectronvolt (million electron volts or $10^6$ volts) [convert to SI: joule (J); sometimes "eV" is accepted by Energy Systems]
mf	medium frequency
mF	millifarad
MFA	multifunctional appraisal
MFC	mass flow controllers
MFCDL	Mass Flow Controller Development Laboratory (I&C Division)
MFD	magnetic flux density
MFE	magnetic fusion energy
MFEP	Magnetic Fusion Energy Program
Mfg.	Manufacturing (spell out in text; abbreviate in references, lists, tables, footnotes, bibliographies, and indexes)
MFI	multifamily energy-use index
MFLOPS	millions of floating-point operations per second (measure of computer processing capability)
MFO	mixed-function oxidase (enzyme system)
mfp	mean free path
MFR	1. Memo for Record 2. U.S. Navy multifunction RADIAC instrument
Mfr.	Manufacturer (spell out in text; abbreviate in references, lists, tables, footnotes, bibliographies, and indexes)
MFSS	Master Fan Shutdown System (ORNL)
MFT	Manufacturing Evaluation Team
MFTF	Mirror Fusion Test Facility (LLNL)
mg	milligram
Mg	1. magnesium (element, $Z = 12$ ) 2. megagram (or megaton)
mG	milligauss
MGA	Mitchell and Gauthier Associates
Mgd	million gallons per day [convert to SI: million cubic meters per second ( $m^3 \times 10^6/s$ ), which is preferred over liters per second (L/s); see restrictions listed under "L" for "liter"]
MgCl <sub>2</sub>	magnesium chloride
MgF <sub>2</sub>	magnesium fluoride
Mg(NO <sub>3</sub> ) <sub>2</sub>	magnesium nitrate
MgO	magnesium oxide
MGMS	matrix-induced-gradient magnetic separation
mgpd	million gallons per day
MGPF	multiprogram general-purpose facility
mgr.	manager
mgt.	management
mH	millihenry
MH	1. mail handler (UNIX) 2. maintenance hole (formerly "manhole")
MHD	magnetohydrodynamic(s)
MHD-EMP	magnetohydrodynamic electromagnetic pulse
MHDM	1. materials handling demonstration module 2. materials handling development module
MHLQR	multiple-hazard, limited-quantity, radioactive
mho	[do not abbreviate this word; convert to SI: siemens (S)]
MHRS	Modified Hazard Ranking System (DOE)
MHTGR	modular high-temperature gas-cooled reactor
MHz	megahertz
MI	1. Michigan (use only with ZIP code addresses) 2. mineral insulated

MIA	1. Missing in Action
MIBK	2. Multivendor Integration Architecture methyl isobutyl ketone
MICA	Modular Integrated Control Architecture (ORNL)
Mich.	Michigan (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Detroit)
MICOM	Missile Command (U.S. Army)
microequivalent	(do not abbreviate this word)
MID	1. Mechanical Inspection Department 2. Merced Irrigation District 3. momentum-induced discrimination
MIDAC	Michigan Digital Automatic Computer
MIDAS	Maintenance Information and Data Acquisition System
MIDP	Management Intern Development Program
MIE	major item of equipment
MIF	Materials Radiation Facilities (HFIR)
MIG	1. maintenance importance generator 2. metal inert gas
mil	[do not abbreviate this word; convert to SI: meter (m)]
Milspec	military specification
MIL-STD	military standard
mile	[do not abbreviate this word; convert to SI: kilometer (km)]
mile <sup>2</sup>	square mile [do not abbreviate either of these words; convert to SI: square meter (m <sup>2</sup> )]
MILES	Multiple Integrated Laser Engagement System
mill	(do not abbreviate this word)
mils/year	mils per year [do not abbreviate either of these words; convert to SI: meters per year (m/year)]
MIMD	multiple instruction, multiple data
MIME	Multipurpose Internet Mail Extension
MIMO	multiple input/multiple output
min	1. minimum (math) 2. minute
Minn.	Minnesota (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Minneapolis or St. Paul)
MINSY	Mare Island Naval Ship Yard
MIP	Maintenance Implementation Plan (I&C Division)
MIPR	Military Interdepartmental Purchase Request
MIPS	millions of instructions per second
MIR	1. major impact report 2. maximum individual risk 3. Medical Incident Report
MIRACL	mid-infrared advanced chemical laser
MIRT	minority institution research travel
MIRV	Multiple Independently Retargetable Reentry Vehicle
MIS	1. Major Item System 2. management information system 3. Mobile Incineration System (EPA)
MIS-CD	Major Item System Code
MISM	Major Item System Mapping (project)
Miss.	Mississippi (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
MIST	Minor Isotopes Safeguards Technique
MIT	1. Massachusetts Institute of Technology (Cambridge, Massachusetts) 2. mechanical integrity test
MITI	Ministry of International Trade and Industry (Japan)



MIUS	Modular Integrated Utility Systems
MIVRML	Mobile In-Vitro Radiation Monitoring Laboratory
MJ/m <sup>3</sup>	megajoules per cubic meter
MJ	megajoule
MJR	Maintenance Job Request
MK-F	MK-Ferguson of Oak Ridge Company
mks	meter-kilogram-second (measurement system; replaced by SI) (preferred over "MKS")
MKS	meter-kilogram-second (measurement system; replaced by SI) ("mks" is preferred)
mksa	meter-kilogram-second-ampere (measurement system; replaced by SI) (preferred over "MKSA")
MKSA	meter-kilogram-second-ampere (measurement system; replaced by SI) ("mksa" is preferred)
mL	milliliter [cubic meter (m <sup>3</sup> ) is preferred; see restrictions listed under "L" for "liter"]
ML	material list
MLC	Military Liaison Committee
MLE	1. maximum likelihood estimate 2. most likely exposure
MLGW	Memphis Light, Gas, and Water
MLI	Microwave Laboratories, Inc.
MLIS	Molecular Laser Isotope Separation
MLLW	mixed low-level radioactive and hazardous waste
MLM	maintenance line management
MLO	Mauna Loa Observatory, Hawaii
MLP	mobile launch platform
MLR	1. maximum lifetime risk 2. multiple linear regression
MLRS	Multiple Launch Rocket System
mm	millimeter
mM	millimole
MM	1. Modified Mercalli 2. monomethylmercury
mm <sup>2</sup>	square millimeter
mm <sup>3</sup>	cubic millimeter
MM-AI	total monomeric aluminum
MMA	Material Access Area
MMAD	mass median aerodynamic diameter
MMARC	Martin Marietta Amateur Radio Club
MMC	Martin Marietta Corporation
MMCF	Martin Marietta Corporation Foundation
MMCFs	Martin Marietta Corporation Foundation Scholarship
MMD	1. Maintenance Management Department (I&C Division) (now TSD) 2. mass median diameter
MMEF	Macromolecule Mapping and Engineering Facility
MMES	Martin Marietta Energy Systems, Inc. ("Energy Systems" is preferred)
mmf	magnetomotive force
MMFP	Martin Marietta Fellows Program
MMI	1. man/machine interface 2. material manager's inventory 3. Modified Mercalli Intensity
MMIC	millimeter-wave integrated circuit
MMIS	Materials Management Information System
MMLC	Mobile Manufacturing Learning Center (CMT)
MMMS	Minerals, Metals and Materials Society
MMMSP	Medicare Major Medical Supplement Plan
MMO	monooxygenase

mmol	millimole
MMR	Massachusetts Military Reservation
MMS	1. Materials Management System (ORNL) 2. Minerals Management Service (DOI) 3. modular modeling system
MMSC	Martin Marietta Specialty Components
MMT	1. Materials and Manufacturing Technology (Laboratory) 2. Molten Metal Technology, Inc.
mmu	milli-mass-unit
MMUS	Martin Marietta Utility Services
Mn	manganese (element, Z = 25)
MN	Minnesota (use only with ZIP code addresses)
MNCV	National Capacity Variance (EPA)
MNL	multinomial logit model
MNNAS	Multichannel Narrowband Noise Analysis System (now MAX)
MNP	Microcom Network Protocol
MNS	master nuclear schedule
Mo	molybdenum (element, Z = 42)
MO	Missouri (use only with ZIP code addresses)
Mo.	Missouri (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with St. Louis)
MO&CA	mission operations and cost analysis
MOA	1. Memorandum of Agreement 2. Military Operation Area
MOC	1. memorandum of cooperation 2. mobile operations center
MOCA™	compound 4,4'-methylenebis-(2-chloroani-line) (trademark of E. I. du Pont de Nemours and Company)
MOCVD	metal organic chemical vapor disposition
mod	modulus (math)
MOD	motor-operated disconnect
MoD-Std	Ministry of Defense Standard (U.K.)
MODIL	Manufacturing Operations Development and Integration Laboratory
MOGAS	motor gasoline
MOI	1. management, organization, institution 2. Memorandum of Intent
mol	mole
mol %	mole percent
mol. wt	molecular weight
MONAL	Mobile Nondestructive Assay Laboratory
MONOB	Mobile Noise Barge
MONT	Montrose District Office (DOE)
Mont.	Montana (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
month	(do not abbreviate this word)
MORT	Management Oversight and Risk Tree
MORT/A-I	Management Oversight and Risk Tree Accident Investigation
MOS	1. metal-oxide semiconductor 2. military occupational specialty
MOSC	Mobil Oil Sludges
MOSFET	metal-oxide-semiconductor field-effect transistor
MOSIS	1. Metal-Oxide-Semiconductor Implementation System 2. modular survey instrument system
Möss	Mössbauer
MOTA	Materials Open Test Assembly [Facility (of FFTF)]
MOTEL	Motorola Intel
MOU	Memorandum of Understanding

MOV	1. metal oxide varistor
MOX	2. motor-operated valve
MP	mixed-oxide fuel (uranium and plutonium)
	1. major project
	2. melting point
MP&T	modified purge and trap vial
MPa	megapascal
MPC	1. main process cell
	2. maximum permissible concentration
	3. Metal Properties Council
	4. multimedia personal computer
	5. multipurpose canister
MPD	1. maximum permissible dose
	2. Metal Preparation Division
MPDAC	Mechanical Properties Data Analysis Center
MPE	manager of product excellence
MPF	1. maximum probable flood (flooding without dam break; see PMF)
	2. metal parts furnace
	3. Metal Processing Facility
mpg	miles per gallon [convert to SI: kilometers per cubic meter ( $\text{km}/\text{m}^3$ ), which is preferred over kilometers per liter ( $\text{km}/\text{L}$ ); see restrictions listed under "L" for "liter"]
mph	miles per hour [convert to SI: kilometers per hour ( $\text{km}/\text{h}$ ) or meters per second ( $\text{m}/\text{s}$ )]
MPI	maximum permissible intake
MPM	1. mechanical properties microprobe
	2. microscopic process monitoring
MPOB	maximum permissible organ burden
MPF	1. massively parallel processing
	2. Massively Parallel Processor
	3. Modular Power Plant (library)
	4. multipinned phase
MPRE	Medium Power Reactor Experiment
MPRSA	Marine Protection, Research, and Sanctuaries Act
MPS	1. microprocessor status
	2. Minimum Property Standards (HUD)
MPST	modified pair-selected ternary
MPT	Manpower, Personnel, and Training (USN)
mR	milliroentgen [convert to SI: coulombs per kilogram ( $\text{C}/\text{kg}$ ); sometimes "roentgen" is accepted by Energy Systems]
MR	Material Request (AVID)
MRAC	model reference adaptive controller
mrad	millirad [convert to SI: gray ( $\text{Gy}$ ); sometimes "rad" is accepted by Energy Systems]
MRAL	Mobile Radionuclide Analysis Laboratory
MRB	Material Review Board
MRBM	Medium-Range Ballistic Missile
MRBT	multirod burst test
MRC	1. Marine Review Committee
	2. Microcomputer Resource Center (ORNL)
	3. Mission Research Corporation
MRCA	Midwest Roofing Contractor's Association
MRDL	1. Measurement Research Development Laboratory (I&C Division)
	2. Metrology Research and Development Laboratory
MRE	medical review entities
mrem	millirem (use same for plural) [convert to SI: sievert ( $\text{Sv}$ ); sometimes "rem" is accepted by Energy Systems]
MRF	Metal Recovery Facility

MRI	magnetic resonance imaging
mRNA	messenger RNA
MRR	material removal rate
MRS	<ol style="list-style-type: none"> <li>1. man-robot symbiosis</li> <li>2. Materials Research Society</li> <li>3. monitored retrievable storage</li> </ol>
MRSC	maintenance and rebuild support definition
MRSF	Monitored Retrievable Storage Facility
ms	millisecond
Ms	<ol style="list-style-type: none"> <li>1. martinsite start temperature</li> <li>2. megasecond</li> </ol>
MS	<ol style="list-style-type: none"> <li>1. mail stop</li> <li>2. mass spectroscopy</li> <li>3. matrix spike</li> <li>4. Mississippi (use only with ZIP code addresses)</li> <li>5. most significant</li> <li>6. Richter magnitude</li> </ol>
MS/MS	<ol style="list-style-type: none"> <li>1. mass spectrometry/mass spectrometry</li> <li>2. tandem mass spectrometry</li> </ol>
MS&E	Materials Science and Engineering
MSA	<ol style="list-style-type: none"> <li>1. major systems acquisition</li> <li>2. mean-square ampere</li> <li>3. Metropolitan Statistical Area</li> <li>4. Microscopy Society of America</li> </ol>
MSB	most-significant bit
MSBR	Molten Salt Breeder Reactor
MSC	<ol style="list-style-type: none"> <li>1. Military Sealift Command</li> <li>2. Manufacturing Skills Campus (Y-12)</li> </ol>
MSCO	Military Sealift Command Office (Norfolk, Virginia)
MSCR	Molten Salt Converter Reactor
MSD	<ol style="list-style-type: none"> <li>1. Marketing Support Division (MMES)</li> <li>2. Material Sciences Division</li> <li>3. matrix spike duplicate</li> </ol>
MSDS	<ol style="list-style-type: none"> <li>1. Materials Safety Data Sheet</li> <li>2. Market Shares Data System</li> </ol>
MSE	<ol style="list-style-type: none"> <li>1. molten-salt extraction</li> <li>2. Mountain States Energy, Inc.</li> </ol>
MSEB	Mathematical Sciences Education Board (National Research Council)
MSEC	Materials Science and Engineering Complex
MSEL	Master Sequence of Events List
MSF	multistage flash
MSFC	Marshall Space Flight Center
MSG	<ol style="list-style-type: none"> <li>1. Management Services Group</li> <li>2. monosodium glutamate</li> </ol>
MSHA	Mine Safety and Health Administration (DOL)
MSI	<ol style="list-style-type: none"> <li>1. motion sickness incidence</li> <li>2. multisensor integration</li> </ol>
MSIV	main steam isolation valve
MSL	<ol style="list-style-type: none"> <li>1. Management Systems Laboratories</li> <li>2. Mass Spectrometry Laboratory (ORNL)</li> <li>3. mean sea level (see AMSL and NGVD)</li> <li>4. minimum safe level</li> </ol>
MSM	<ol style="list-style-type: none"> <li>1. master slave manipulator</li> <li>2. multivariable stability margin</li> </ol>
MSMO	major site maintenance organization
MSPB	Merit Systems Protection Board

MSR	1. Maintenance Service Request 2. moisture separator reheater 3. Molten Salt Reactor
MSRE	Molten Salt Reactor Experiment
MSREF	Molten Salt Reactor Experiment Facility
MSRP	Molten Salt Reactor Program
MSRS	Material Safety Reference Sheet
MSS	1. Management Services Section (IMS) 2. Mass Storage System 3. multispectral scanner
MSSA	Master Safeguards and Security Agreement
MSSE	Mathematics and Science Summer Experiences (program)
MSTIMP	Management of Scientific and Technical Information Management Program (DOE)
MSTMC	Materials and Structures Technology Management Center
MSTS	microwave signal transmission system
MSV	mean square voltage
MSW	municipal solid waste
MSWU	million separative work units
mT	millitesla
Mt	1. megaton [do NOT abbreviate; spell out to avoid confusion with "metric ton" (see Mton)] 2. meitnerium (element, Z = 109)
MT	1. Montana (use only with ZIP code addresses) 2. muffin-tin approximation
MTBE	methyl tertiary butyl ether
MTBF	mean time between failures
MTDC	Manufacturing Technology Deployment Center (Y-12)
MTF	1. Memorandum to File 2. modulation transfer function
MTG	methanol to gasoline
MTHM	metric tons of heavy metal
MTI	Mechanical Technology, Inc.
MTIHM	metric tons of initial heavy metal
MTL	maximum tolerable level
MTM	million-ton-miles
MTMC	Military Traffic Management Command
Mton	megaton (spell out to avoid confusion with "metric ton") (see Mt)
MTPP	Military Traffic Management Command's Personal Property Directorate
MTR	1. Materials Testing Reactor 2. Military Training Route 3. minimum technological requirements
MTRMPC	Middle Tennessee Regional Minority Purchasing Council, Inc.
MTS	methyltrichlorosilane
MTSS	Metallic Thermal Storage System
MTTF	mean time to failure
MTTR	mean time to repair
MTU	1. materials test unit 2. metric ton unit 3. metric tons of uranium 4. mobile treatment unit
MTX	Microwave Tokamak Experiment
MU	measurement unit
MUD	Maintenance and Utilities Division (now FMD) (Y-12)
MUDSO	Maintenance and Utilities Standing Order
MUF	materials unaccounted for
MUG	meter-under-glass (method)
MUOM	monolithic uranium oxide material

MUSC	Medical University of South Carolina
MURR	Missouri University Research Reactor
MUX	multiplexer
mV	millivolt
MV	megavolt
mV/m	millivolts per meter
MVA	megavolt-ampere
Mvar	megavar (megavolt-ampere reactive)
MVIP	Machine Variables Instrument Package
MVMA	Motor Vehicle Manufacturers Association
MVS	Multiple Virtual Storage
MVST	Melton Valley storage tanks
MVST-CIP	Melton Valley Storage Tank Capacity Increase Project
mW	milliwatt
MW	1. megawatt 2. mixed waste 3. molecular weight 4. monitoring well
MWC	municipal waste combustor
MWd	megawatt-day
MW(e)	megawatt (electrical) [see MW(t)]
MWh	megawatt-hour
MWI	Mixed Waste Inventory
MWIP	Mixed-Waste Integrated Program (DOE-EM, OTD, ORNL)
MWL	municipal waste leachate
MWMF	Mixed Waste Management Facility
MWPD	multiwire proportional detector
MWPP	municipal water pollution prevention
MWR	maintenance work request
MWs	megawatt-second
MWSEP	Mixed Waste Storage Expansion Program (K-25)
MW(t)	megawatt (thermal) [see MW(e)]
MW-year	megawatt-year
MWS	Missile Warning System
MWTC	Mountain Warfare Training Center
MWTF	Mixed Waste Treatment Facility
Mx	maxwell [convert to SI: weber (Wb)]
MYL	middle year of license
MYR	middle year of relicense
m $\Omega$	milliohm
M $\Omega$	megohm
$\mu$ A	microampere
$\mu$ A · h	microampere-hour
$\mu$ C	microcoulomb
$\mu$ Ci	microcurie [convert to SI: becquerel (Bq); sometimes "curie" is accepted by Energy Systems]
$\mu$ F	microfarad
$\mu$ g	microgram
$\mu$ H	microhenry
$\mu$ in.	microinch
$\mu$ L	microliter [cubic meter (m <sup>3</sup> ) is preferred over liter; see restrictions listed under "L" for "liter"]
$\mu$ m	1. micrometer 2. micron (do NOT use "μ" alone)
$\mu$ M	micromolar
$\mu$ mol	micromole
$\mu$ N	nuclear magneton
$\mu$ R	microroentgen

$\mu\text{s}$   
 $\mu\text{V}$   
 $\mu\text{W}$   
 $\mu\Omega$

microsecond  
microvolt  
microwatt  
microhm

N	<ol style="list-style-type: none"> <li>1. density (number of particles per unit of volume)</li> <li>2. neutron number [neutron number = mass number - atomic number (<math>N = A - Z</math>)]</li> <li>3. newton</li> <li>4. nitrogen (element, <math>Z = 7</math>)</li> </ol>
<i>N</i>	normal (concentration)
n. (nn.)	footnote(s) [use when followed by number(s) in citations]
N.C.	North Carolina (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
N.D.	North Dakota (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
N.H.	New Hampshire (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
N.J.	New Jersey (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
N.M.	New Mexico (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
N.Y.	New York (state) [use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Buffalo or New York (City)]
N · m	newton meter
<i>n</i> -type	negative electrical carrier
N/A	not applicable (also NA)
N <sub>2</sub>	nitrogen gas
N <sub>2</sub> O	nitrous oxide
Na	sodium (element, $Z = 11$ )
Na/S	sodium sulfur
NA	<ol style="list-style-type: none"> <li>1. North America(n)</li> <li>2. not applicable</li> <li>3. not available</li> </ol>
NAA	<ol style="list-style-type: none"> <li>1. National Association of Accountants</li> <li>2. neutron activation analysis</li> <li>3. Neutron Activation Analysis [Laboratory (facility at HFIR)]</li> </ol>
NAACP	National Association for the Advancement of Colored People
NAAF	Naval Auxiliary Air Facility
NAAQS	National Ambient Air Quality Standards
NAB	Naval Amphibious Base
NAC	<ol style="list-style-type: none"> <li>1. National Asbestos Council</li> <li>2. Naval Avionics Center</li> <li>3. Nuclear Assurance Corporation</li> </ol>
NACA	<ol style="list-style-type: none"> <li>1. National Advisory Committee for Aeronautics</li> <li>2. National Agricultural Chemicals Association</li> </ol>
NACB	National Academy of Clinical Biochemistry
NACE	National Association of Corrosion Engineers
NACEPT	National Advisory Council for Environment Policy and Technology
NACETT	National Advisory Council for Environmental Technology Transfer
NACHP	National Advisory Council on Historic Preservation
NACIP	Naval Assessment and Control of Installation Pollutants
NAD	nuclear accident dosimeter
NADC	Naval Air Development Center
NADEP	Naval Air Depot



NADP	1. National Atmospheric Deposition Program (EPA) 2. nicotinamide adenine dinucleotide phosphate
NADTP	National Association of Desktop Publishers
NAE	National Academy of Engineering
NAEC	Naval Air Engineering Center
NAECA	National Appliance Energy Conservation Act
NAEG	Nevada Applied Ecology Group
NAEIC	Nevada Applied Ecology Information Center
NAEM	National Association for Environmental Management
NAEP	National Association of Environmental Professionals
NAERC	North American Electric Reliability Council
NAF	1. nonappropriated fund 2. number, address, function code
NAFTA	North American Free Trade Agreement
NAG	Numerical Algorithm Group
NAGRA	National Cooperative for the Storage of Radioactive Waste
NAHB	National Association of Home Builders
NAHB/RF	National Association of Home Builders Research Foundation
NAIC	National Association of Insurance Commissioners
NAIRFA	Native American Indian Religious Freedom Act
NaK	sodium-potassium eutectic
NALC	Naval Aviation Logistics Center
NALDA	Naval Aviation Logistics Data Analysis
NALMS	North American Lake Management Society
NALR	National Acid Lake Registry
NAM	National Association of Manufacturers
NaNO <sub>3</sub>	sodium nitrate
NaOCl	sodium hypochlorite
NAPAP	National Acid Precipitation Assessment Program
NAPC	Nonradioactive Air Pollution Control
NAPCA	National Air Pollution Control Administration
NAPCE	North American Phillips Consumer Electronics
NAPCTAC	National Air Pollution Control Technologies Advisory Committee
NAPL	nonaqueous phase liquid
NAPM	National Association of Purchasing Management
NARA	Network Address Registration and Assignment
NARDAC	Naval Regional Data Automation Center
NARL	Naval Arctic Research Laboratory
NARM	1. naturally occurring and accelerator-produced radioactive materials 2. nonazeotropic refrigerant mixture
NARS	National Archives and Records Service
NARU	Naval Air Reserve Unit
NARUC	National Association of Regulatory Utility Commissioners
NaS	sodium sulfide
NAS	1. National Academy of Sciences 2. Naval Air Station 3. neutron assay system
NASA	National Aeronautics and Space Administration
NASAP	Nonproliferation Alternatives Systems Assessment Program
NASP	national aerospace plane
NASQUAN	National Stream Water Quality Accounting Network
NAT	nuclear assembly test
NATAS	National Appropriate Technology Assistance Service
NATO	North Atlantic Treaty Organization
NATTC	Naval Air Technician Training Center
NATTS	Naval Air Turbine Test Station
NAV	Norton Anti-Virus
NAVAIR	Naval Air Systems Command

NAVFAC	Naval Facility(ies)
NAVMAS	Navy Management Systems
NAVMASSO	Navy Management Systems Support Office
NAVMS	Navy Manpower Information System
NAVORD	Naval Ordnance Laboratory
NAVSEA	Naval Sea Systems Command
NAVSUP	Naval Supply Systems Command
NAVWESA	Naval Weapons Engineering Systems Activity
NAWAS	National Warning System
NAWQA	national water quality assessment
Nb	niobium (element, Z = 41)
NB	Nebraska (use only with ZIP code addresses)
NBAR	nonbinding preliminary allocations of responsibility
NBC	nuclear, biological, and chemical
NBECS	Nonresidential Buildings Energy Consumption Survey
NBI	1. neutral beam injection 2. nuclear burst indicator
NBL	New Brunswick Laboratory
NBMI	National Building Materials Inventory (program)
NBP	normal boiling point
NBS	National Bureau of Standards (now NIST)
NBSR	National Bureau of Standards Reactor
NC	1. noncarcinogenic 2. North Carolina (use only with ZIP code addresses) 3. numerical control
NCA	1. National Coal Association 2. National Command Authority 3. Noise Control Act
NCA&TSU	North Carolina A&T State University
NCAI	National Congress of American Indians
NCAM	National Center for Advanced Materials (LBL)
NCAMP	National Coalition Against the Misuse of Pesticides
NCAR	National Center for Atmospheric Research (NOAA)
NCASI	National Council on Air and Stream Improvement
NCATH	National Campaign Against Toxic Hazards
NCBR	Near-Commercial Breeder Reactor
NCC	1. National Climatic Center 2. National Computing Center (Woodlawn, Maryland)
NCCEM	National Coordinating Council on Emergency Management
NCEL	Navy Civil Engineering Laboratory
nCFS	Network Central File Server
NCG	1. National Committee on Geology (National Academy of Sciences) 2. noncondensable gas
NCHGR	National Center for Human Genome Research
NCI	National Cancer Institute
NCL	1. National Contract Laboratory (EPA) 2. U.S. Navy Calibration Laboratory
NCLAN	National Crop Loss Assessment Network (EPA)
NCMA	1. National Concrete Masonry Association 2. National Contract Management Association
NCMS	National Center for Manufacturing Science
NCN	nonconformance notice
NCO	noncommissioned officer
NCP	1. National Contingency Plan 2. National Oil and Hazardous Substances Pollution Contingency Plan (referred to as "National Contingency Plan")
NCPC	Navy Civilian Personnel Center
NCPDI	National Coastal Pollutant Discharge Inventory

NCPDS	Navy Civilian Personnel Data System
NCR	1. Near-Commercial Reactor
	2. nonconformance report
NCRC	National Cave Rescue Commission
NCRP	1. National Commission on Radiological Protection
	2. National Committee on Radiation Protection
	3. National Council on Radiation Protection
NCRPM	National Council on Radiation Protection and Measurements
NCS	1. National Communications System
	2. net control station
	3. nuclear criticality safety
NCSA	National Center for Superconducting Applications
NCSASR	National Center for Small-Angle Scattering Research
NCSC	U.S. Naval Coastal System Center [now Naval Surface Warfare Center, Dahlgren Division, Coastal Systems Station (DD/NSWC)]
NCSL	National Conference of Standards Laboratories
NCSP	network communications software package
NCST	Nuclear Criticality Safety Training
NCTR	National Center for Toxicological Research
NCTTA	National Competitiveness Technology Transfer Act of 1989 (Pub. L. 100-189)
NCWP	Nuclear and Chemical Waste Program
nd	1. no date
	2. not detected
Nd	neodymium (element, $Z = 60$ )
Nd:YAG	neodymium:yttrium-aluminum-garnet (laser)
ND	North Dakota (use only with ZIP code addresses)
NDA	1. national defense area
	2. nondestructive assay
NDAA	National Defense Authorization Act
NDC	nondestructive cleaning
NDD	normal dodecane
NDE	1. nondestructive evaluation
	2. nondestructive examination
NDGS	Nelson Dewey Generating Station (Wisconsin)
NDI	nondestructive inspection
NDP	1. neutron depth profile/profiling
	2. Nuclear Data Project
	3. numeric data package
NDR	Norris Dam Reservation (TVA)
NDRO	nondestructive readout
NDT	1. nil-ductility-transition temperature
	2. nondestructive testing
Ne	neon (element, $Z = 10$ )
NE	1. nuclear energy
	2. Office of Nuclear Energy (DOE)
NEA	1. National Endowment for the Arts
	2. Nuclear Energy Act of 1977
	3. Nuclear Energy Agency (OECD)
Nebr.	Nebraska (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Omaha)
NEC	National Electrical Code
NECPA	National Energy Conservation Policy Act of 1978
NECTL	National Education Commission on Time and Learning (U.S. Congress)
NEDA	National Environmental Development Association
NEDA CAAP	National Environmental Development Association Clean Air Act Project
NEDO	New Energy Development Organization

NEESA	U.S. Naval Energy and Environmental Support Activity
NEHA	National Environmental Health Association
NEHC	Naval Environmental Health Center
NEIC	National Enforcement Investigations Center
NEIDA	National Estuarine Inventory Data Atlas
NEIS	National Energy Information System
NEITDO	New Energy and Industrial Technology Development Organization (Japan)
NEMA	1. National Electrical Manufacturers Association 2. National Environmental Management Academy (ERWM)
NEMT	National Emergency Management Team
NEO	New Employee Orientation (Energy Systems)
NEP	1. National Energy Plan 2. nuclear electric propulsion 3. Nuclear Energy Program (DOE)
NEPA	1. National Environmental Policy Association 2. National Environmental Policy Act of 1969 [40 CFR, Pts. 1500-1508; DOE Order 5400.1C (revision 199C)] 3. National Environmental Protection Agency 4. Nuclear Energy for the Propulsion of Aircraft
NEPP	National Energy Policy Plan
NEPP-V	National Energy Policy Plan V
NERC	1. NEPA environmental review and compliance 2. North American Electricity Reliability Council
NERFR	nonionizing electromagnetic radio-frequency radiation
NERP	National Environmental Research Park
NERVA	Nuclear Engine for Rocket Vehicle Application
NES	1. National Energy Strategy 2. National Eutrophication Survey
NESC	1. National Electric Safety Code 2. National Energy Software Center
NESCAUM	Northeast States for Coordinated Air Use Management
NESDIS	National Environmental Satellite Data and Information Service (NOAA)
NESHAP	National Emission Standards for Hazardous Air Pollutants
NEST	nuclear emergency search team
NET	Nuclear Engineering Technologies
NETA	National Environmental Training Association
NETG	National Education Training Group
NETP	Nuclear Engineering Training Program
NETPEM	Network Performance Evaluation Model
Nev.	Nevada (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Las Vegas)
NEVOO	Nevada Operations Office (DOE)
NEWMA	Northeast Waste Management Alliance
NF	national forest
NFA	no further action
NFD	no fuel damage
NFIP	National Flood Insurance Program
NFMA	National Forest Management Act of 1976
NFP	National Fusion Program
NFPA	National Fire Protection Association
NFPC	National Fire Protection Code
NFS	1. Network File Server 2. Network File Services 3. Network File System 4. Nuclear Fuel Services
NFTCP	Nuclear Facility Training Coordination Program
ng	nanogram

NG	newly generated
NGA	National Governors' Association
NGB	National Guard Bureau
NGL	natural gas liquid
NGP	National Group Process
NGPA	National Gas Policy Act of 1978
NGPM	new-car gallons per mile
NGS	1. National Geodetic Survey (formerly U.S. Coast and Geodetic Survey) 2. National Geographic Society 3. neutral gas shielding 4. nuclear generating station
NGVD	National Geodetic Vertical Datum (replaces mean sea level)
NH	1. New Hampshire (use only with ZIP code addresses) 2. Northern Hemisphere
NH <sub>3</sub>	ammonia
NHBA	National Home Builders Association
NHE	National Housing Endowment
NHF	New Hydrofracture Facility
NHLBI	National Heart, Lung, and Blood Institute
NHM	National Historical Monument
NH <sub>4</sub> NO <sub>3</sub>	ammonium nitrate
NHP	New Hope Pond
NHPA	National Historic Preservation Act of 1966 (Amendments of 1980)
NHTSA	National Highway Traffic Safety Administration
NHPP	National Heat Pump Program
Ni	nickel (element, Z = 28)
Ni <sub>3</sub> Al	nickel aluminide
NIAID	National Institute for Allergy and Infectious Diseases
NIAS	Neutron Interrogation Assay System (LANL)
NIBS	National Institute of Building Sciences
NIC	newly industrialized country
NICHHD	National Institute of Child Health and Human Development
NICLM	noninvasive coolant level indicator
NIEHS	National Institute of Environmental Health Sciences
NIER	National Institute for Environmental Renewal
NIF	National Ignition Facility (world's largest laser, proposed for LLNL)
NIFS	Nagoya Institute for Fusion Science (Japan)
NIGEC	National Institute for Global Environmental Change
NIGMS	National Institute of General Medical Sciences
NIGS	National Institute of General Sciences
NIH	National Institutes of Health
NiH <sub>2</sub>	nickel hydride
NII	Nuclear Installation Inspectorate (U.K.)
NIM	nuclear instrument module
NIMBY	Not in My Back Yard!
NIOSH	National Institute for Occupational Safety and Health
NIPDWR	National Interim Primary Drinking Water Regulations
NIPDWS	National Interim Primary Drinking Water Standards
NIPER	National Institute for Petroleum and Energy Research (Bartlesville, Okla.)
NIR	nonionizing radiation
NIRP	National Institute for Radiation Protection
NIRS	National Inorganics and Radionuclides Survey
NISS	not in sources searched (MSDS)
NIST	National Institute of Standards and Technology (formerly NBS)
NITT	National Institute for Technology Training (Mississippi State University)
NIU	network interface unit (computer term)
NIVHS	National Intelligent Vehicle Highway System
NJ	New Jersey (use only with ZIP code addresses)

NJDEP	New Jersey Department of Environmental Protection
NJI&I	New Jersey, Indiana, and Illinois Railroad
NLC	1. National Laboratory Consortium 2. National League of Cities
NLDP	National Laboratory Discount Program
NLM	National Library of Medicine
NLO	National Lead of Ohio
NLRB	National Labor Relations Board
NLS	National Launch System (NASA)
NLT	no later than
NLTNIF	National Low-Temperature Neutron Irradiation Facility
nm	nanometer
NM	1. nautical mile 2. New Mexico (use only with ZIP code addresses)
NMA	1. National Management Association 2. National Microfilm Association 3. National Micrographic Association
NMAS	National Map Accuracy Standards
NMC	1. Network Management Center (C&TS) 2. network management console (computer term)
NMC&A	1. nuclear materials control and accountability 2. Nuclear Materials Control and Accountability Organization
NMEID	New Mexico Environmental Improvement Division
NMF	Navy Management Fund
NMFECC	National Magnetic Fusion Energy Computer Center
NMFFS	Navy Mobility Fuels Forecasting System
NMFS	National Marine Fisheries Service
NMHA	National Mental Health Association
NMHC	nonmethane hydrocarbon
NMIS	1. Nuclear Material Information System (now NMMSS) 2. Nuclear Materials Inventory System
NML	New Material Laboratory
NMLT	New Material Laboratory Test
NMLT/SFT	New Material Laboratory Test/Surveillance Flight Test
NMM	nuclear materials management
NMMSS	Nuclear Materials Management and Safeguards System (formerly NMIS)
NMOS	nonvolatile metal-oxide semiconductor
NMP	Nuclear Materials Production (DOE)
NMPC	Naval Military Personnel Command
nmr	nuclear magnetic resonance (preferred over "NMR")
NMR	nuclear magnetic resonance ("nmr" is preferred)
NMS&MC	Nuclear Monitoring Systems and Management Corporation
NMSS	Office of Nuclear Material Safety and Safeguards (NRC)
NMWQCCR	New Mexico Water Quality Control Commission Regulations
NNAPB	nearest-neighbor antiphase boundary
NNET	neural network
NNI	nonnuclear instrumentation
NNK	nonnuclear kill (weapon)
NNNAPB	next-nearest-neighbor antiphase boundary
NNS	nonnuclear safety
NNSR	nonattainment new source review (see NSR)
NNWSI	Nevada Nuclear Waste Storage Investigation (project)
No	nobelium (element, Z = 102)
NO <sub>2</sub>	nitrogen dioxide(s)
No(s).	number(s) [use only when followed by number(s)]
NOA	notice of availability
NOAA	National Oceanic and Atmospheric Administration
NOAC	Nuclear Operations Analysis Center (formerly NSIC)

NOAEL	no observed adverse effect level
NOBCCHE	National Organization for the Professional Advancement of Black Chemists and Chemical Engineers
NOC	Naval Ordnance Center
NOD	1. nitrogenous biochemical oxygen demand 2. notice of deficiency
NODC	National Oceanographic Data Center
NOEC	no-observed-effect concentration
NOEL	no observed effect level
NOF	Nuclear Orientation Facility
NOI	1. notice of intent 2. Notice of Involvement
NOL	Naval Ordnance Laboratory
NOM	natural organic matter
NOMS	National Organics Monitoring Survey
NON	notice of noncompliance
NONRAD	nonradioactive
NOO	naturally occurring organism
NOPI	notice of program interest
NOPR	Notice of Proposed Rulemaking
NORA	National Oil Recyclers Association
NORAD	North American Defense Command
NORC or NoRC	nonrecord copy
NORM	naturally occurring radioactive material
NORPAX	North Pacific Expedition
NORS	National Organics Reconnaissance Survey
NOS	1. Naval Ordnance Station 2. not otherwise specified
NOTS	Naval Ordnance Test Station
NOTU	Naval Ordnance Test Unit
NOUE	notification of unusual event
NOV	Notice of Violation
NO <sub>x</sub>	nitrogen oxide(s)
NOX	oxides of nitrogen
Np	1. neper 2. neptunium (element, Z = 93)
NP	1. natural phenomena 2. neutron porosity (geophysical logging)
NPA	1. National Planning Association 2. neutral particle analyzer 3. Nuclear Plant Analyzer
NPAP	Nuclear Plant Aging Program
NPAR	Nuclear Plant Aging Research (program, NRC)
NPARP	Nuclear Plant Aging Research Program (NRC)
NPB	neutral particle beam
NPB-GTF	Neutral Particle Beam-Ground Test Facility
NPC	National Petroleum Council
NPCA	National Parks and Conservation Association
NPCS	nuclear power control system
NPDES	National Pollutant Discharge Elimination System
NPDWR	National Primary Drinking Water Regulations
NPDWS	National Primary Drinking Water Standards
NPE	1. natural phenomena evaluation 2. Nuclear Plant Experience (report)
NPEO	nuclear plant equipment operator
NPET	natural phenomena evaluation team
NPH	normal paraffin hydrocarbon
NPL	National Priorities List

NPMA	National Purchasing Managers Association
npn	negative-positive-negative (transistor)
NPO	1. National Waste Terminal Storage Program Office 2. Naval Petroleum and Oil Shale Reserves
NPP	1. National Photovoltaics Program 2. Net Primary Production 3. net primary productivity 4. nuclear power plant
NPPC	Northwest Power Planning Council
NPPHSL	National Priority Pollutant and Hazardous Substance List
NPR	1. Naval Petroleum Reserves in California 2. new production reactor
NPR-HWR	New Production Reactor-Heavy-Water Reactor
NPRA	National Petroleum Refiners Association
NPRDC	Navy Personnel Research and Development Center (San Diego)
NPRDS	Nuclear Plant Reliability Data System
NPRM	notice of proposed rulemaking
NPRP	New Production Reactor Program
NPS	1. National Park Service 2. National Permit Strategy
NPSD	1. noise power spectral density 2. normalized power spectral density
NPSH	net positive suction head
NPSRC	National Park Service Research Center (University of Wyoming)
NPV	net present value
NQA	nuclear quality assurance
NQA-1	Quality Assurance Standards for Nuclear Facilities (ANSI/ASME NQA-1)
NQAA	National Quality Assurance Agency
NQR	nuclear quadrupole resonance
NRA	1. National Rifle Association 2. nuclear reaction analysis 3. Nuclear Regulatory Agency
NRAS	neutron resonance absorption spectroscopy
NRC	1. National Research Council (NAS) 2. National Response Center 3. Nuclear Regulatory Commission 4. Nuclear Research Corporation
NRCA	National Roofing Contractors Association
NRCC	National Research Council of Canada
NRDA	Natural Resources Damage Assessment
NRDC	1. National Resources Defense Council 2. Natural Resources Defense Council
NRECA	National Rural Electric Cooperative Association
NREL	National Renewable Energy Laboratory (Golden, Colo.)
NREP	National Registry of Environmental Professionals
NRF	Naval Reactors Facility
NRHP	1. National Register of Historic Places 2. National Research Home Park (NAHB)
NRHS	National Register of Historic Sites
NRI	1. National Resource Inventory 2. National Rivers Inventory
NRL	Naval Research Laboratory
NRNL	National Register of Natural Landmarks
NRP	National Resource Plan
NRPB	National Radiological Protection Board
NRR	Office of Nuclear Reactor Regulation (NRC)
NRRC	Nuclear Research Review Committee (National Academy of Sciences)
NRRI	National Regulatory Research Institute



NRS	nonreactor safety
NRT	1. National Response Team 2. NEPA Review Team
NRTA	near-real-time accounting
NRTS	National Reactor Testing Station (Idaho)
NRWTF	Nonradiological Wastewater Treatment Facility
NRWTP	nonradiological wastewater treatment plant/program (ORNL)
NRZI	nonreturn-to-zero, inverted
ns	nanosecond
Ns	nielsbohrium (element, Z = 107)
NS	1. nuclear safety 2. nuclear ship
NSA	1. National Security Agency 2. national security area
NSAC	Nuclear Safety Analysis Center (EPRI)
NSBE	National Society of Black Engineers
NSBE-AE	National Society of Black Engineers-Alumni Extension
NSC	1. National Safety Council 2. National Security Council 3. Naval Supply Center
NSCANS	National Steering Committee for an Advanced Neutron Source
NSDWR	National Secondary Drinking Water Regulation
NSE	neutron spin echo
NSF	1. National Sanitation Foundation 2. National Science Foundation 3. Neutron Scattering Facility
NSFO	Naval Special Fuel Oil
NSI	National Security Information
NSIC	Nuclear Safety Information Center (now NOAC)
NSLS	National Synchrotron Light Source (BNL)
NSMS	Network Security Management System
NSN	national stock number
NSO	Nuclear Safety Organization (Energy Systems)
NSP	Northern States Power Company, Inc. (also NSPC)
NSPC	Northern States Power Company, Inc. (also NSP)
NSPE	National Society of Professional Engineers
NSPI	National Society for Performance and Instruction
NSPO	National Security Program Office
NSPP	Nuclear Safety Pilot Plant
NSPS	1. New Source Performance Standards (EPA) 2. New Source Protection Standards (EPA)
NSR	1. new source review (see NNSR) 3. Nuclear Safety Review
NSRR	1. Nuclear Safety Research Reactor 2. Nuclear Safety Review Request
NSS	1. National Scoring System 2. National Stockpile Site 3. National Stream Survey
NSSI	Nuclear Source Services, Inc. (Houston)
NSSS	nuclear steam supply system
NSWC	Naval Surface Warfare Center (see CD/NSWC and DD/NSWC)
NSWI	National Safe Workplace Institute
NSWMA	National Solid Waste Management Association
NSWS	National Surface Water Survey (EPA)
NT	not tested
NTACS	National Truck Activities and Commodities Survey
NTC	1. National Toxics Campaign 2. Naval Training Center

NTEP	National Teacher Enhancement Program
NTIS	National Technical Information Service (Springfield, Virginia)
NTLA	Nevada Test Site, Los Alamos National Laboratory
NTLL	Nevada Test Site, Lawrence Livermore National Laboratory
NTM	1. Nevada Test Site, Mercury 2. nonterrestrial materials
NTN	National Trends Network
NTP	1. National Toxicology Program 2. Network Time Protocol 3. normal temperature and pressure (see STP) 4. notice to proceed 5. nuclear thermal propulsion
NTS	1. Nevada Test Site 2. not to scale
NTSB	National Transportation Safety Board
NTSC	National Television Standard Code
NTTC	Naval Technical Training Center
NTTIS	National Truck Trip Information Survey
NTU	1. National Technological University 2. nephelometric turbidity unit
NUFS	National Utility Financial Statement (model)
NUHOMS	Nutech Horizontal Modular System
NUMAC	nuclear measurement, analysis, and control
NUMARC	Nuclear Management and Resources Council
NUMEC	Nuclear Materials and Equipment Corporation
NURE	National Uranium Resources Evaluation
NUREG	Nuclear Regulatory Guide (NRC reports category)
NUREPO	National Uranium Resource Evaluation Project Office
NUSC	Naval Underwater Systems Center
NUS	Nuclear Utility Services Corporation
NUWES	Naval Undersea Warfare Engineering Station
NV	1. Nevada (use only with ZIP code addresses) 2. Nevada Operations Office (DOE)
NVI	normalized difference vegetation index
NVLAP	National Voluntary Laboratory Accreditation Program
NWA	national wilderness area
NWAC	Naval Weapons Assessment Center
NWC	Nuclear Weapons Complex
NWCF	New Waster Calcining Facility
NWCRS	Nuclear Weapons Complex Reconfiguration Site (Complex 21)
NWEA	National Wood Energy Association
NWF	National Wildlife Federation
NWPA	Nuclear Waste Policy Act of 1982 (see NWPPA)
NWPPA	Nuclear Waste Policy Act Amendments of 1987 (see NWPA)
NWR	national wildlife refuge
NWS	1. National Water Survey (NAPAP) 2. National Weather Service 3. National Wilderness System 4. Naval Weapons Station
NWTP	Nonradiological Wastewater Treatment Project
NWTS	National Waste Terminal Storage
NWWA	National Water Well Association
NY	1. New York (state) (use only with ZIP code addresses) 2. New York Support Office (DOE)
NYMEX	New York Mercantile Exchange
NYSDEC	New York State Department of Environmental Conservation
NYSERDA	New York State Energy Research and Development Administration
NZ	noise zone

O	oxygen (element, Z = 8)
O/M	operation/maintenance
O/O	owner/operator
O&G	oil and grease
O&M	1. operating and management 2. operation and maintenance
O&TS	Operations and Technical Support
O <sub>2</sub>	oxygen
O <sub>3</sub>	ozone
OA	1. office automation 2. oxygen activation
OA&P	Operations Analysis & Planning Division
OA/DCS	Open Architecture Distributed Control System
OAC	1. Ohio Administrative Code 2. operational aids computer
OAF	Office of Alcohol Fuels (DOE)
OAG	<i>Official Airline Guide</i> (Travel Department)
OAI	Office of Audit and Inspection
OAI	Ocean-Atmosphere-Ice Interactions (ARCSS)
OAM	oversight assurance memorandum
OAP	off-axis paraboloidal
OAPEC	Organization of Arab Petroleum Exporting Countries
OAQPS	Office of Air Quality Planning and Standards (EPA)
OAR	Office of Air and Radiation (EPA)
OARM	Office of Administration and Resource Management
OARS	OSTI Automated Retrieval System
OAS	1. Office Automation System 2. Organization of American States
OASD	Office of Assistant Secretary of Defense
OASIS	Online Access Services and Information System (replaced LION)
OB/OD	open burning/open detonation
OBA	operating-basis accident
OBCS	Office of Buildings and Community Systems (DOE)
OBE	operating-basis earthquake
OBES	Office of Basic Energy Sciences
OBT	Office of Building Technologies
OC	1. on center 2. operating center 3. operating contractor
OCA	Organization of Chinese Americans
OCAW	Oil, Chemical, and Atomic Workers International Union
OCCF	Optical Component Characterization Facility
OCD	Office of Civil Defense
OCEP	Office of Contractor Employee Protection (DOE)
OCHP	open-cycle heat pump
OCI	1. Office of Counterintelligence (DOE) 2. organizational conflict of interest
OCIS	OSHA Computerized Information System
OCL	Optics Characterization Laboratory
OCMT	Operating Contractors Management Team
OCONUS	outside continental United States (see CONUS)
OCPSF	organic chemicals, plastics, and synthetic fibers

OCR	1. Operating Cost Report 2. optical character reader 3. Optical Character Recognition (device)
OCRWM	Office of Civilian Radioactive Waste Management (DOE) (also DOE/RW; also RW)
OCS	Office of Scientific Computing (DOE)
OCSSEM	Office of Central Safeguards, Security, and Emergency Management
OCT	1. Office Computing Technologies 2. ornithine carbamoyl transferase (or ornithine transcarbamylase)
OCUS	1. Office Computing User Services 2. Office Computing User Support
OD	1. oil dike 2. Operations Division (K-25) 3. outside diameter
ODC	ornithine decarboxylase
ODNR	Ohio Department of Natural Resources
ODP	ozone-depleting potential
ODRS	Optics Damage and Radiation Studies
ODSR	optical disk storage and retrieval
ODW	Office of Drinking Water (EPA)
OEa	1. Office of Economic Adjustment 2. Office of Environmental Analysis (DOE)
OEBBS	Operating Experience Bulletin Board System [OESH, Office of Nuclear Safety (DOE)]
OEC	1. O-arai Engineering Center (Tokai Works of PNC, Japan) 2. Office of Environmental Compliance
OECD	1. Office of Environmental Compliance and Documentation 2. Organization for Economic Cooperation and Development (formerly OEEC)
OECD/NEADB	Organization for Economic Cooperation and Development/Nuclear Energy Agency Data Bank
OECM	Office of Enforcement and Compliance Monitoring
OEE	Office of Energy Emergencies (DOE)
OEEC	Organization for European Economic Cooperation (now OECD)
OEERE	Office of Energy Efficiency and Renewable Energy (DOE)
OEETD	Office of Environmental Engineering and Technology Demonstration
OEG	Office of Environmental Guidance (DOE)
OEGC	Office of Environmental Guidance and Compliance (DOE)
OEID	Office of Economic Impact and Diversity (DOE)
OEM	1. Office of Energy Management 2. original equipment manufacturer
OEP	1. Office of Electric Power 2. Office of Emergency Programs (DOE)
OEPA	1. Office of Environmental Policy Analysis 2. Ohio Environmental Protection Agency
OER	1. oersted [convert to SI: amperes per meter (A/m)] 2. Office of Energy Research
OERI	Office of Educational Research and Improvement
OERR	Office of Emergency and Remedial Response
OERTT	Office of Energy Research Technology Transfer (DOE)
OERWM	Office of Environmental Restoration and Waste Management (DOE)
OESD	Office of Energy Systems and Distribution (DOE)
OESH	Office of Environment, Safety and Health (DOE)
OESHC	Office of Environmental, Safety, and Health Compliance
OESHOC	Operations, Environment, Safety, and Health Operating Committee (Energy Systems)
OETA	Office of Environmental Technology Assessment
OETD	Office of Environmental Technology Development

OEWS	<i>Operating Experience Weekly Summary</i> [Office of Nuclear Safety (DOE)]
OFA	1. Office of Financial Analysis (U.S. Department of the Treasury) 2. other federal agencies
OFC	Office of Fuels Conversion (ERA-DOE)
OFCCP	Office of Federal Contract Compliance Programs
OFE	Office of Fusion Energy (DOE)
OFHC	oxygen-free, high-conductivity
OFT	operational flight trainer
OGC	Office of General Counsel
OGSCL	Office of Oil, Gas, Shale, and Coal Liquids (DOE/FE)
OGSST	Office of Oil, Gas, Shale, and Special Technologies
OGUI	Office of Guest and User Interactions (ORNL)
OH	1. Ohio (use only with ZIP code addresses) 2. ohmic heating
OHA	U.S. Department of Energy Office of Hearings and Appeals
OHEA	Office of Health and Environmental Assessment
OHER	Office of Health and Environmental Research (DOE)
OHF	Old Hydrofracture Facility (pond)
Ohio	(do not abbreviate unless used with ZIP code addresses; state name is not needed with Cincinnati or Cleveland)
OHIS	Occupational Health Information System
OHMS	hydroxy melatonin sulfate
OHMT	Office of Hazardous Materials Transportation
OHP	omnidirectional holonomic platform
OHS	Occupational Health Services (Energy Systems)
OIC	1. officer-in-charge 2. optical integrated circuit
OIDC	oil-importing developing countries
OIG	Office of Inspector General
OIRM	Office of Information Resources Management Policy, Plans, and Oversight (DOE)
OIRPC	Office for Interagency Research and Policy Coordination
OIT	oxidation induction time
OITS	Open Item Tracking System
OIU	operator interface unit
OJCS	Organization of the Joint Chiefs of Staff
OJT	on-the-job training
OK	Oklahoma (use only with ZIP code addresses)
Okla.	Oklahoma (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Oklahoma City)
OL	operating license
OLC	Office of Laboratory Computing (ORNL)
OLE	object linking and embedding
OLP	Office of Laboratory Protection (formerly LPD) (ORNL)
OLS	operating license stage
OLSA	organic liquid storage area
OLU	output logic unit
OM-AI	organic monomeric aluminum
OMA	Office of Military Applications
OMB	1. Office of Management and Budget (formerly BOB) 2. Office of Military Budget
OMCD	Office of Mobilization and Civil Defense
OMRE	Organic Moderated Reactor Experiment
OMS	organizational maintenance squadron
OMSE	Office of Management Systems and Evaluation (EPA)
OMSQA	Office of Monitoring Systems and Quality Assurance (EPA)

OMV	Orbital Maneuvering Vehicle
ONC	Open Network Computing
ONEP	ORNL National Energy Perspective
ONMSS	Office of Nuclear Material Safety and Safeguards (NRC)
ONOR	off-normal occurrence report
ONPA	Office of NEPA Project Assistance (DOE)
ONR	Office of Naval Research
ONRR	Office of Nuclear Reactor Regulation (NRC)
ONS	1. Oconee Nuclear Station 2. Office of Nuclear Safety (DOE)
ONWI	Office of Nuclear Waste Isolation (DOE)
OOC	Office of Classification
OOIP	original oil in place
OOP	object-oriented programming
OOR	overall objectives and requirements
OORFS	Office of Operational Readiness and Facility Safety (formerly OORS)
OORS	Office of Operational Readiness and Safety (now OORFS)
OORTS	Official Oak Ridge Telephone System
OOS	Office of Operational Safety
OP	1. Office of Operational Safety 2. Operations Planning (DOE)
OPAC	On-Line Payment and Collection
op-amp	operational amplifier
OPEC	Organization of Petroleum Exporting Countries
OPEIU	Office and Professional Employees International Union
OPERAD	Optical Processing Enhanced Real-Time Advanced Detection
OPEX	operations expense
OPFM	Office of Project and Facilities Management
OPLAN	Oil and Hazardous Substance Pollution Contingency
OPM	1. Office of Personnel Management 2. Office of Planning and Management
OPP	Office of Pesticide Programs
OPPA	Office of Policy, Planning, and Analysis
OPPE	1. Office of Policy, Planning, and Evaluation (EPA) 2. Office of Program Planning and Evaluation
OPPPE	Office of Policy, Planning and Program Evaluation (DOE)
OPRM	1. Office of Plans and Resources Management 2. oscillation power range monitor
OPRR	Office of Protection from Research Risks
OPS	1. Office of Pipeline Safety 2. operating system (computer term)
OPSEC	Operations Security (Program)
OPSEC/CI	Operations Security/Counterintelligence (DOE and Energy Systems programs)
OPSM/UG	Optical Sensing Manufacturers/Utilities Group
OPTS	1. Office of Pesticides and Toxic Substances (EPA) 2. Order Processing and Tracking System
OQPI	Office of Quality Programs and Inspection (formerly QD)
OR	1. Oak Ridge (Tennessee) 2. odds ratio 3. operating reactor 4. Oregon (use only with ZIP code addresses)
OR gate	["OR" is not an abbreviation (see AND gate)]
ORA	1. Oak Ridge Area 2. Office of Risk Analysis (DOE)
ORACLE	Oak Ridge Automatic Computer and Logic Engine
ORAU	Oak Ridge Associated Universities
ORBRFUR	Oak Ridge Bioprocessing Research Facility User Resource
ORC	Office of Regional Counsel

ORCC	Oak Ridge City Council
ORCHIS	Oak Ridge Computerized Hierarchical Information System
ORCMT	Oak Ridge Centers for Manufacturing Technology
ORCMTD/UF	Oak Ridge Centers for Manufacturing Technology Deployment/User Facility
ORCWDF	Oak Ridge Central Waste Disposal Facility (proposed)
ORD	Office of Research and Development (EPA)
ORDC	Oak Ridge Detector Center (ORNL, established January 1990)
ORDTN	Oak Ridge Dataphone Teletypewriter Network
OREA	Office of Economic Adjustment
Oreg.	Oregon (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
OREIS	Oak Ridge Operations Office Environmental Information System
ORELA	Oak Ridge Electron Linear Accelerator
OREN	Oak Ridge Educational Network
OREOC	Oak Ridge Emergency Operations Center
OREPA	Oak Ridge Environmental Peace Alliance
OREQAB	Oak Ridge Environmental Quality Advisory Board
ORF-ICN	Oak Ridge Federal-Integrated Communications Network
ORFEA	Oak Ridge Federal Employees Association
ORFTF	Oak Ridge Filter Test Facility
ORG	Operations Review Group
ORGDP	Oak Ridge Gaseous Diffusion Plant (now Oak Ridge K-25 Site)
ORGSBS	Oak Ridge Graduate School of Biomedical Sciences
ORHASP	Oak Ridge Health Agreement Steering Panel
ORHS	Oak Ridge Health Studies Agreement
ORHSP	Oak Ridge Hydrology Support Program
ORIAD	Oak Ridge Immediate Action Directive
ORIC	Oak Ridge Isochronous Cyclotron
ORIGEN	Oak Ridge Isotope Generation and Depletion Code
ORIM	Oak Ridge Industrial Model (for chemicals and petroleum)
ORINS	Oak Ridge Institute for Nuclear Studies (now ORAU)
ORION	Oak Ridge Isochronous Observation Network
ORISE	Oak Ridge Institute for Science and Education
ORM	1. occurrence reporting manager (ORNL) 2. other regulated material
ORMAK	Oak Ridge Tokamak
ORMMP	Oak Ridge Materials Management Plan
ORMWI	Oak Ridge Mixed Waste Incinerator (K-25 Site)
ORNL	Oak Ridge National Laboratory (preferred over "X-10")
ORNL/TM	Oak Ridge National Laboratory/Technical Memorandum
ORO	Oak Ridge Operations Office (DOE)
ORO-PAD	Oak Ridge Operations Office, Paducah (DOE)
ORO-PORT	Oak Ridge Operations Office, Portsmouth (DOE)
ORP	1. Occurrence Reporting Program (ORNL) 2. Office of Radiation Protection (ORNL) 3. On-Site Remediation Program 4. Operational Readiness Process
ORPD	Oak Ridge Police Department
ORPM	Occurrence Reporting Program Manager (Energy Systems)
ORPS	Occurrence Reporting and Processing System
ORR	1. Oak Ridge Research Reactor 2. Oak Ridge Reservation 3. Operational Readiness Review
ORRDAC	Oak Ridge Research Reactor data acquisition system
ORREC	Oak Ridge Regional Education Center (ORNL)
ORRHAGS	Oak Ridge Reservation Hydrology and Geology Study
ORRI	Oak Ridge Research Institute
ORRMIS	Oak Ridge Regional Molding Information System

ORRSF	Oak Ridge Reservation Site Facility
ORRSS	Oak Ridge Reservation Swap Shop
ORRWTB	Oak Ridge Research Web Test Bed
ORS	Occurrence Reporting System
ORSA	Operations Research Society of America
ORSAM	ORNL spatial analysis model
ORSEC	Oak Ridge Science Education Center
ORSERS	Oak Ridge Science and Engineering Research Semester
ORSOAR	Oak Ridge Synchrotron Organization for Advanced Research
ORSORT	Oak Ridge School of Reactor Technology
ORT	Operational Readiness Team
ORTA	Office of Research and Technology Applications
ORTI	Oak Ridge Transportation Initiative
ORTRAN	Oak Ridge Transportation Technology Center (Energy Systems)
ORV	off-road vehicle
ORVIP	Oak Ridge Valley Industrial Park
ORWMA	Oak Ridge Waste Management Association
Os	osmium (element, $Z = 76$ )
OS&H	operations safety and health
OSA	Optical Society of America
OSAE	on-site architect-engineer
OSC	1. Office of Scientific Computing (DOE) 2. on-scene coordinator 3. open-space conservation 4. operational support center 5. operations support center
OSCP	on-scene command post
OSD	1. Office of Standards Development (NRC) 2. Office of the Secretary of Defense
OSE	1. Office of Safeguards Evaluations 2. Office of Security Evaluation
OSEER	Office of Science Education and External Relations (ORNL)
OSEPER	Office of Science Education Programs and External Relations
OSF	Open Software Foundation (consortium)
OSFRI	Open Software Foundation Research Institute
OSH	occupational safety and health
OSH/WPP	Occupational Safety and Health Worker Protection Pilot (program of DOE)
OSHA	1. Occupational Safety and Health Act of 1970 2. Occupational Safety and Health Administration
OSHP	Office of Safety and Health Protection
OSHRKS	Occupational Safety and Health Record Keeping System
OSI	1. Office of Special Investigations 2. open system interconnect
OSIM	Open Systems Implementation and Migration (C&TS)
OSL	Operation Source Language
OSLAP	Office of State and Local Assistance Programs (DOE)
OSM	Office of Surface Mining (DOI)
OSPIC	Oil Spill Public Information Center
OSR	1. Operational Safety Report 2. operational safety requirement
OSS	1. Office of Safeguards and Security 2. Office of Statistical Standards (DOE) 3. off-the-shelf software 4. Order Status Screen
OSTC	Office of Scientific and Technical Computing
OSTI	Office of Scientific and Technical Information (DOE) (formerly TIC)
OSTP	Office of Science and Technology Policy
OSTS	Office of Storage and Transportation Systems



OSW	1. Office of Saline Water
OSWER	2. Office of Solid Waste (EPA)
OSWP	Office of Solid Waste and Emergency Response (EPA)
OSWRA	Operational Safety Work Permit
OTA	Office of Solid Waste and Remedial Actions
	1. Office of Technology Alliances
	2. Office of Technology Applications (DOE)
	3. Office of Technology Assessment (U.S. Congress)
OT&E	Operations Training and Evaluations
OTC	Office of the Controller
OTD	Office of Technology Development (DOE)
OTDR	optical time-domain reflectometry
OTEC	ocean thermal energy conversion
OTF	optical transfer function
OTM	1. Oil Tank Model
	2. Oil Trade Model
OTO	one-third octave
OTS	1. Office of Toxic Substances (EPA)
	2. Office of Transportation Systems (DOE)
OTSG	once-through steam generator
OTSP	Office of Transportation Systems Planning
OTT	1. Office of Technology Transfer (Energy Systems)
	2. Office of the Treasurer
OTV	Orbital Transfer Vehicle
OU	operable unit
OUO	Official Use Only
OURE	Office of Uranium Resources and Enrichment (DOE)
OUST	Office of Underground Storage Tanks
OVA	organic vapor analyzer
OVEC	Ohio Valley Electric Corporation
OVT	operational verification testing
OWCP	Office of Workers Compensation Program
OWFD	Office of Work Force Diversity (formerly EEO organization) (Energy Systems)
OWI	Office of Waste Isolation
OWP	Office of Weapons Production
OWPE	Office of Waste Programs Enforcement
OWR	Omega West Reactor
OWRDP	Office of Waste Research and Development Programs (ORNL)
OWRT	Office of Water Research and Technology (DOI)
OWS	oil/water separator
Oy	oralloy
oz	ounce, avoirdupois (16 oz = 1 lb) [convert to SI: kilogram (kg) for solids; cubic meter (m <sup>3</sup> ) for liquid, which is preferred over liter; see restrictions listed under "L" for "liter"]
oz ap	ounce, apothecary (12 oz ap = 1 lb) [convert to SI: kilogram (kg) for solids; cubic meter (m <sup>3</sup> ) for liquid, which is preferred over liter; see restrictions listed under "L" for "liter"]
oz t	ounce, troy (12 oz t = 1 lb) [convert to SI: kilogram (kg) for solids; cubic meter (m <sup>3</sup> ) for liquid, which is preferred over liter; see restrictions listed under "L" for "liter"]
Ω	ohm
Ω · cm	ohm centimeter
Ω · ft	ohm foot [convert to SI: ohm centimeter (Ω · cm)]
Ω · m	ohm meter

P	1. phosphorus (element, $Z = 15$ ) 2. poise [convert to SI: pascal second (Pa · s)] 3. property ("Prop" is preferred) (math)
p. (pp.)	page(s) [use when followed by number(s); spell out at beginning of sentence]
P.L.	Public Law
p.m.	post meridiem (afternoon)
P.R.	Puerto Rico (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
P-T	pressure-temperature
p-type	positive electrical carrier
P/A	propulsion/avionics
P/B	peak to background
P/R	productivity/respiration
P/Y	pitch/yaw
P&A	1. planning and analysis 2. plugging and abandonment
P&CE	plant and capital equipment
P&DS	Printing and Duplicating Services
P&E	Plant and Equipment (Division)
P&I	1. piping and instrumentation 2. process and instrumentation
P&ID	piping and instrumentation diagram
P&LRTS	Process and Long-Range Technical Support (program)
P&P	planning and production document
P&PD	production and planning directive (document)
P&S	production and surveillance
P&SE	Program and Systems Engineering (Division) (formed in 1991)
P&T	packaging and transportation
P&TM	planning and technology management
P2	pollution prevention
Pa	1. pascal 2. protactinium (element, $Z = 91$ )
PA	1. Pacific Area Support Office (DOE) 2. Pennsylvania (use only with ZIP code addresses) 3. performance assessment 4. preliminary assessment 5. Privacy Act 6. process analysis 7. production agency 8. protected area 9. public address (system) 10. public affairs
Pa.	Pennsylvania (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Philadelphia or Pittsburgh)
Pa · s	pascal second
Pa · s · m	pascal second meter
Pa · s · m <sup>2</sup>	pascal second square meter
PA/SI	preliminary assessment/site investigation (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PDEA, PDEIS, PDES, PEIA, PEIS, and SEIS)

PAA	1. polyacrylic acid
PAAA	2. primary assigned aircraft
PAB	Price-Anderson Amendment Act
PAC	performance assessment brine
	1. perturbed angular correlation
	2. probably approximately correct
PAC/CSR	Preadmission Certification/Continuing Stay Review
PACE	1. Plant Acquisition and Construction Equipment
	2. plant and capital equipment
PACER	Program for the Acceleration of Commercial Energy Research
PACSE	Permit Attachment for Confined Space Entry
PAD	1. Paducah Gaseous Diffusion Plant (also PGDP)
	2. Paducah Site Office (DOE)
	3. Policy Analysis and Development (formerly IRPM)
	4. Program Approval Document
PADD	Petroleum Administration for Defense Districts
PAE	plans, analysis, and evaluation
PAECE	<i>Protective Action Evaluator for Chemical Emergencies: A Users Manual</i> (U.S. Army)
PAES	Power Advisor for Energy Systems
PAF	plasma arc furnace
PAFC	phosphoric acid fuel cell
PAFE	Plasma Arc Furnace Experiment
PAG	<i>Protection Action Guide</i>
PAGIS	Performance Assessment of Geological Isolation Systems
PAH	1. polyaromatic hydrocarbon
	2. polycyclic aromatic hydrocarbon
PAL	1. phenylalanine ammonia lyase
	2. programmable array logic
PALS	1. Partners at the Laboratory in Science (ORNL program)
	2. Payroll, Absence, and Labor System (Energy Systems)
PAM	1. perimeter air monitor
	2. postaccident monitoring
PAM&T	Production Association, Materials, and Interplant Transfers
PAME	primary amoebic meningoencephalitis
PAMS	postaccident monitoring system
PAN	passive-active neutron
PAO	1. Princeton Area Office (DOE)
	2. Public Affairs Office
	3. public affairs officer
PAPO	Performance Assurance Project Office
PAR	1. photosynthetically active radiation
	2. Protective Action Recommendation
PARCC	precision, accuracy, representativeness, completeness, and comparability
PARR	projected annual reactor requirements
PARSAC	programmable advanced RADIAC sound annunciator chip
PAS	pollution abatement system
PASNY	Power Authority for the State of New York
PASS	postaccident sampling system
PATCO	Professional, Administrative, Technical, Clerical, and Other
PAVE	Precision Acquisition Vehicle Entry
PAWS	Phased Array Warning System
Pb	lead (element, Z = 82)
PB	polybutylene
Pb/acid	lead acid (battery)
PBA	Pine Bluff Arsenal
PBAA	Preliminary Business Area Analysis
PB&C	planning, budget, and control

PBB	polybrominated biphenyl
PBBS	Procurement Bulletin Board System
PBCO	praseodymium
PBF	Power Burst Facility
PBFA	Particle Beam Fusion Accelerator
PBFR	Power Burst Facility Reactor
PBGC	Pension Benefit Guarantee Corporation
PBR	1. pebble bed reactor 2. permit-by-rule
PBV	Post-Boost Vehicle
PBX	1. Princeton Beta Experiment 2. private branch exchange
pc	polycrystalline
PC	1. personal computer 2. Placement Center (now Career Center) 3. Position Charter 4. potential carcinogen 5. printed circuit
PC Plan	Management Plan for Personal Computers and Word Processors (Energy Systems)
PC/PM	personal computer/project management
PC/TCP	Personal Computer/Transmission Control Protocol
PCA	1. physical configuration audit 2. pool critical assembly 3. Portland Cement Association 4. primary candidate alloy 5. prime candidate alloy 6. principal components analysis
PCAP	Production Capability Assurance Program
PCB	1. polychlorinated biphenyl 2. printed circuit board
PCBF	Printed Circuit Board Facility
PCBMP	polychlorinated biphenyl monitoring plan
PCC	Paducah Community College
PCCAP	plant computing and communications architecture plan
PCCB	1. Procedure Change Control Board 2. project configuration control board
PCD	1. product conversion demonstration (AVLIS) 2. program control document 3. project control document 4. proposed consent decree
PCDAS	Plant Control and Data Acquisition System
PCDF	polychlorinated dibenzofuran
PCE	1. perchlorethane 2. perchloroethylene 3. tetrachloroethene 4. tetrachloroethylene
PCEPD	President's Committee on Employment of People with Disabilities
pcf	pounds per cubic foot [convert to SI: kilograms per cubic meter (kg/m <sup>3</sup> )]
PCF	plasma centrifugal furnace
pCi	picocurie [convert to SI: becquerel (Bq); sometimes "curie" is accepted by Energy Systems]
PCI	1. peripheral component interconnect 2. postcollision interaction 3. Prestressed Concrete Institute
PCIS	Personal Computer Inventory System (Y-12)
PCK	Poplar Creek kilometer
PCLA	pressure containment lower assembly

PCM	<ol style="list-style-type: none"> <li>1. personnel contamination monitor</li> <li>2. phase-change material</li> <li>3. phase contrast microscopy</li> <li>4. postclosure monitoring</li> <li>5. process control module</li> </ol>
PCNIU	personal computer network interface unit
PCO	project control order
pCO <sub>2</sub>	partial pressure of carbon dioxide
PCOC	<ol style="list-style-type: none"> <li>1. potential contaminants of concern</li> <li>2. Practical Conference on Communication</li> </ol>
PCP	pentachlorophenol
PCPA	Postclosure Permit Application
PCR	<ol style="list-style-type: none"> <li>1. polymerase chain reaction</li> <li>2. project change request</li> </ol>
PCRV	prestressed concrete reactor vessel
PCS	<ol style="list-style-type: none"> <li>1. photoconductive power switch</li> <li>2. plant control system</li> </ol>
PCSC	Personal Computer Support Complex
PCT	Personal Computing Technologies (Energy Systems)
PCTF	Plant Component Test Facility
PCTR	physical constants test reactor
PCU	platinum cobalt unit
PCUA	pressure containment upper assembly
PCUG	PC Users' Group
PCV	<ol style="list-style-type: none"> <li>1. petty cash voucher</li> <li>2. pressure control valve</li> </ol>
PCVN	precracked Charpy V-notch
PCW	process cooling water
Pd	palladium (element, Z = 46)
PD	<ol style="list-style-type: none"> <li>1. process design</li> <li>2. program director</li> <li>3. Physics Division</li> <li>4. Publications Division (now part of IMS)</li> </ol>
PDA	Personal Digital Assistant
PDC	<ol style="list-style-type: none"> <li>1. Performance Documentation Checklist</li> <li>2. programmable digital controller</li> <li>3. proposed design change</li> </ol>
PDE	<ol style="list-style-type: none"> <li>1. partial differential equation</li> <li>2. Process Design Engineering (Y-12)</li> </ol>
PDEA	preliminary draft environmental assessment (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEIS, PDES, PEIA, PEIS, and SEIS)
PDEIS	preliminary draft environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDES, PEIA, PEIS, and SEIS)
PDES	preliminary draft environmental statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PEIA, PEIS, and SEIS)
PDF	<ol style="list-style-type: none"> <li>1. plant design factor</li> <li>2. Position Data Form</li> </ol>
PdM	predictive maintenance
PDM	<ol style="list-style-type: none"> <li>1. programmed depot maintenance (USAF)</li> <li>2. Project Description Memorandum</li> </ol>
PDN	Public Data Network
PDPM	pyrochemical and dry processing method
PDR	Plant Design Requirement

PDS	1. partitioned data set 2. plant display system 3. Process Development Section (CTD) 4. project data sheet
PDSI	Palmer Drought Severity Index
PDU	plasma display unit
PDUCP	Plant Depleted Uranium Consolidation Project (Y-12)
PDW	probability density weighting
PDWF	project director's working file
PE	1. Planning and Evaluation [Division (of EPRI)] 2. Philadelphia Electric Company 3. polyethylene 4. Portsmouth Enrichment Office (DOE) 5. power electronic 6. power equivalent 7. principal engineer 8. processing element 9. project engineer 10. Professional Engineer
PEA	Preliminary Energy Audit
PEAC	Power Electronics Application Center (TCRD)
PEB	Process Evaluation Board
PEC	1. Performance Evaluation Committee 2. Performance Evaluation Criteria 3. Phoenix Electric Company 4. Professional Engineer Certification 5. Program Execution Committee
PED	photoemission diode
PEG	1. Performance Evaluation Group 2. Project Evaluation Group
PEH	high-density polyethylene (also HDPE)
PEHX	cross-linked, high-density polyethylene (also HDPEX and XHDPE)
PEIA	programmatic environmental impact analysis (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIS, and SEIS)
PEIS	programmatic environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, and SEIS)
PEL	1. low-density polyethylene (also LDPE) 2. permissible exposure limit
PELX	cross-linked, low-density polyethylene (also LDPEX and XLDPE)
PEM	1. portable energy monitor 2. process equipment modifications 3. process empirical modeling 4. proton exchange membrane (fuel cell)
PEMP	Process Equipment Modification Program
PENDOS	personnel neutron dosimeter/spectrometer
PEO	power equipment operator
PEP	1. peak envelope power 2. pellet-enhanced performance 3. Performance Evaluation Plan 4. powder-filled evacuated panel (superinsulation)
PERALS	photon-electron rejecting alpha liquid scintillation
PERC	perchloroethylene
PERM	permanent circuit (computer term)
PERT	program evaluation review technique

PES	1. Performance Enhancement System 2. Plant Emergency Squad 3. Power Engineering Society (IEEE)
PESC	passivated emitter solar cell
PESL	Physical and Electrical Standards Laboratory
PET	1. polyethylene terephthalate 2. positron-emission tomograph (scanner) 3. process evaluation test 4. Product Engineering Transmittal 5. Proficiency Environmental Testing
PETC	Pittsburgh Energy Technology Center
PEU	process equipment uprating
PEV	process evaluator
PEX	cross-linked polyethylene (also XLPE)
pF	picofarad
PF	1. poloidal field 2. power factor 3. program function 4. protective force 5. polyurethane foam
PFA	perfluoroalkoxy-alkanes
PFBC	pressurized fluidized-bed combustion
PFD	personal flotation device
PFM	pulse frequency modulation
PFMS	Precision Flexible Manufacturing System
PFPR	Plutonium Fuel Processing Facility (OEC of PNC, Japan)
PFR	Phoenix Ford Reactor (University of Michigan)
PFS	Parallel File System (Intel)
PFTF	Purex Flowsheet Test Facility
PG&E	Pacific Gas and Electric Company
PGA	peak ground acceleration
PGAA	prompt-gamma activation analysis
PGDP	Paducah Gaseous Diffusion Plant (also PAD)
PGM	Precision Guided Munition
pH	pH (hydrogen-ion concentration notation)
PH	1. phenanthrene 2. phot [convert to SI: lumens per square meter (lm/m <sup>2</sup> )]
Ph.D.	Doctor of Philosophy
PH <sub>3</sub>	phosphine (gas)
PHA	Preliminary Hazard Analysis
PHE	public health evaluation
PHENIX	photon electron new heavy ion experiment
PHILMS	Photographic Inventory Logistics Management System
PHP	Preferred Health Partnership
PHS	1. preliminary hazard screening 2. Public Health Service
PHSA	Public Health Service Act of 1965
PHWR	pressurized heavy-water reactor
PI	1. Pellissippi International 2. performance indicator 3. Pinellas Area Office (DOE) 4. plasma-interactive 5. polyisocyanurate 6. preliminary inquiry 7. principal investigator 8. proportional-integral
PI&A	Program Integration and Administration

PIC	1. polymer-impregnated concrete 2. power integrated circuit 3. probe interface chip 4. product of incomplete combustion 5. Project Information Center 6. proportional-integral controller
PICS	1. Partnership in Computational Science (consortium) 2. process inventory control system
PID	1. photoionization detector 2. Planning Information Document 3. proportional-integral-derivative
PIDAS	Perimeter Intrusion Detection and Assessment System (Y-12)
PIE	postirradiation examination
PIF	Proposal Information Form
PIG	1. particulate, iodine, and gas 2. Phillips ion gage
PIH	poison by inhalation
PILOT	payment in lieu of taxes
PIN	1. P-intrinsic-N 2. positive-intrinsic-negative
PIO	1. pilot-induced oscillation 2. public information officer
PIP	1. part in position 2. Performance Improvement Process/Program/Project 3. Program Implementation Plan 4. Public Involvement Plan
PIR	1. Phenomena Identification and Ranking 2. polyisocyanurate
PIRG	public interest research group
PIRLA	Paleoecological Reconstruction of Recent Lake Acidification (EPRI)
PIRO	Petroleum Industry Response Organization
PITA	performance indicator and trend analysis system
PITF	Pipe Impact Test Facility (ORNL)
PITS	1. plant inventory trending system 2. primary inventory trending system
PIUS	process-inherent ultimate safety
PIV	postindicating valve
PJ	picojoule
PL	Public Law ("Pub. L." is preferred)
PLA	pulsed-laser-annealed (cell type)
PLBR	prototype large breeder reactor
PLC	1. power line carrier 2. programmable logic controller
PLCEDM	part-length control element drive mechanism
PLD	pulsed-layer deposition
PLEX	plant life extension
PLF	preload function
PLFA	phospholipid fatty acid
PLL	phase lock loop
PLRTS	process and long-range technical support
PLSC	prime lump-sum contractor
PLT	Princeton Large Torus
PLV	1. pay in lieu of vacation 2. production-level video
Pm	promethium (element, Z = 61)



PM	<ol style="list-style-type: none"> <li>1. particulate matter</li> <li>2. particulate mercury</li> <li>3. phase margin</li> <li>4. phase modulation</li> <li>5. photomultiplier</li> <li>6. predictive maintenance</li> <li>7. preventive maintenance</li> <li>8. program manager</li> <li>9. programmed maintenance</li> <li>10. project management</li> <li>11. project manager</li> </ol>
PM-AMMOLOG	Program Manager, Office of Ammunition Logistics
PM-ECM	permanent-magnet electronically commutated motor
PM/SO <sub>2</sub>	particulate matter and sulfur dioxide
PM/WSL	priority materials/waste stream list
PM <sub>10</sub>	particulate matter less than 10 micrometers (PM < 10 μm) in diameter
PMA	Power Marketing Associations
PMAA	Petroleum Marketers Association of America
PMAR	Procurement Management Assistance Review
PMB	plastic media blasting
PMC	<ol style="list-style-type: none"> <li>1. Performance Management Council</li> <li>2. Personnel Management Committee</li> <li>3. precious metals coordinator</li> <li>4. Project Management Corporation</li> </ol>
PMCD	program manager for chemical demilitarization
PMD	<ol style="list-style-type: none"> <li>1. Petroleum Marketing Division (EIA)</li> <li>2. process method development</li> <li>3. production methods development</li> <li>4. Program Management Division</li> </ol>
PMDF	<ol style="list-style-type: none"> <li>1. Pascal Mail Distribution Facility</li> <li>2. Production Methods Development Facility</li> </ol>
PMED	Personnel and Management Evaluation Division
PMEL	Precision Measurement Equipment Laboratory
PMF	probable maximum flood (flooding with dam break; see MPF)
PMI	<ol style="list-style-type: none"> <li>1. Precision Machining, Inc.</li> <li>2. Project Management Institute</li> </ol>
PMIC	<ol style="list-style-type: none"> <li>1. Performance Management Improvement Council</li> <li>2. Personnel Management Improvement Committee</li> </ol>
PMN	premanufacture notice
PMO	Project Management Office (U.S. Army)
PMP	<ol style="list-style-type: none"> <li>1. phase-measuring profilometry</li> <li>2. Pontryagin's Maximum Principle</li> <li>3. Program Management Plan</li> <li>4. project management plan</li> </ol>
PMR	proportionate mortality ratio
PMS	<ol style="list-style-type: none"> <li>1. plant monitoring system</li> <li>2. Project Management System</li> </ol>
PMR	project management summary report
PMT	<ol style="list-style-type: none"> <li>1. Performance Management Team (TQM)</li> <li>2. photomechanical transfer (produces screened halftones)</li> <li>3. photomultiplier tube</li> </ol>
PMTC	Precision Manufacturing Technology Center (Y-12 Plant)
PMU	Production and Maintenance Union
<i>pn</i> junction	interface between <i>p</i> -type (positive) and <i>n</i> -type (negative) electrical carriers
PNA	polynuclear aromatic hydrocarbons
PNAD	personal nuclear accident dosimetry
PNC	Power Reactor and Nuclear Fuel Development Corporation (Japan)

PNL	Pacific Northwest Laboratory (formerly BNWL) (Richland, Washington)
PNLM	maximum perceived noise level
pnp	positive-negative-positive (transistor)
PNP	purine nucleoside phosphorylase
PNR	Pittsburgh Naval Reactors Office (DOE)
Po	polonium (element, Z = 84)
PO	purchase order
POC	1. particulate organic carbon 2. performance objectives and criteria 3. point of compliance 4. point of contact 5. purgeable organic carbon
POD	1. point of diversion (e.g., of stream) 2. port of debarkation 3. process operating diagram
POE	1. port of embarkation 2. point of exposure
POG	project officer group
POHC	principal organic hazardous constituent
POL	petroleum, oil, and lubricants
POM	1. polycyclic organic matter 2. Program Objective Memorandum
PON	Program Opportunity Notice
POP	1. Post Office Protocol (computer mail server) 2. proof of principle
PORC	Plant Operations Review Committee (Energy Systems)
PORT	Portsmouth Site Office (DOE)
PORTS	Portsmouth Gaseous Diffusion Plant (see PUEP)
PORV	power-operated relief valve
POTW	publicly owned treatment work
POV	privately owned vehicle
POX	purgeable organic halides
pp	peak to peak
PP	1. pilot plant 2. polypropylene 3. Powerhouse Project (K-25) 4. preliminary proposal 5. preparatory procedure
PP&A	Program Planning and Analysis Office (ORNL)
PP&L	Pacific Power & Light
PPA	1. Pollution Prevention Act of 1990 2. Property Protection Area
PPAC	parallel-plate avalanche counter
PPAD	parallel-plate avalanche detector
PPAN	<i>Pollution Prevention Awareness News</i>
PPAP	Pollution Prevention Awareness Program
ppb	parts per billion
PPBRS	Program Planning, Budgeting, and Review System
PPBS	Planning, Programming, Budgeting System
PPC	1. Personal Performance Consultants (provider of Energy Systems Employee Assistance Program services) 2. plant procurement coordination 3. Pollution Prevention Council (K-25)
PPCP	Preparedness Prevention and Contingency Plan
PPD	Production Program Definition Document
PPDD	preliminary project design description
PPE	personal protective equipment
PPFD	photosynthetic photon flux density

PPI	1. Plastics Pipe Institute 2. point polarization interferometer 3. process prove-in 4. producer price index
PPIFUA	Power Plant and Industrial Fuel Use Act of 1977
PPISIG	Professional Publishing and Illustration Special Interest Group
ppm	parts per million
PPM	<i>Policy Procedures Manual</i>
PPO	1. Plant Publications Office (PD, Y-12) 2. Portsmouth Project Office (DOE) 3. Preferred Provider Organization
PPOA	pollution prevention opportunity assessment
PPP	1. paper-polypropylene-paper 2. Point-to-Point Protocol 3. Pollution Prevention Program (Energy Systems)
PPPD	pilot production program definition
PPPL	Princeton Plasma Physics Laboratory
PPPP	Pollution Prevention Program Plan
ppr	pulses per revolution
PPR	Performance Planning and Review
PPRP	Pollution Prevention Research Program
PPRS	Performance Planning and Review System
pps	pulses per second
PPS	1. plant protection system 2. polyphenylene sulfide
PPSC	Personal Publishing Support Complex
PPSG	power purchase strategy guideline
PPSO	Personal Property Shipping Office (DOD)
ppt	1. parts per thousand 2. pellet propulsion technology 3. precipitate
Pr	praseodymium (element, Z = 59)
PR	1. preliminary review 2. press release 3. pressure rated 4. procurement request 5. Puerto Rico (use only with ZIP code addresses)
PRA	probabilistic risk assessment
PRAISDPO	PRAISE Discrete Probability Distribution
PRAM	Predictive Reliability Assessment Model
PRBS	psuedorandom binary sequence
PRC	1. People's Republic of China (mainland China) 2. Project Review Committee
PRCPTS	primary reactor coolant pump trip system
PRD	1. Public Relations Department 2. proposed reference design
PRDA	Program Research and Development Announcement
PRDS	Production Reports Distribution System
PREPP	Process Experimental Pilot Plant
PRF	Plutonium Recovery Facility
PRFD	Personal Radio-Frequency Dosimeter
PRG	preliminary remediation goal
PRIMEX	primary extraction system (see SECEX)
PRIP	Productivity and Radiological Improvement Program
PRISM	1. Power Reactor Inherently Safe Module 2. Princeton Scorekeeping Method
PRM	1. personal radiation monitor 2. protection relay module

PRMP	1. Plutonium Recovery Modernization Project
PRNC	2. Postremoval Monitoring Plan
Prob	Puerto Rico Nuclear Center
PROM	probability (math)
Prop	programmable read-only memory
PRP	property (preferred over "P") (math)
	1. potentially responsible party
	2. Productivity Retention Program
PRR	Protective Response Recommendation
PRS	1. perforation registration system
	2. Production Requirements System
PRSA	Public Relations Society of America
PRSS	primary reactor shutdown system
PRTF	Plating Rinsewater Treatment Facility (Y-12 Plant)
PRWTF	Plating Rinse Water Treatment Facility
PS	1. performance specification
	2. Philadelphia Support Office (DOE)
	3. photosynthesis
	4. Protective Services (organization, Energy Systems)
	5. Publications Section (became Publications Division) (now part of Information Management Services)
PS&PM	<i>Martin Marietta Energy Systems Policy, Standards, and Procedures Manual</i>
PSA	1. Problem Statement Analyzer
	2. Puget Sound Area
PSAM	Physical Sciences and Advanced Materials (Organization) (Energy Systems)
PSAP	Personnel Security Assurance Program (DOE)
PSAR	preliminary safety analysis report
PSAT	partial site acceptance test
PSC	1. process support cell
	2. Public Service Commission (State of Tennessee)
	3. public service company
PSD	1. Physical Security Department
	2. plasma spray deposition
	3. power spectral density
	4. prevention of significant deterioration
	5. Process Support Division
	6. Protective Services Department (OLP)
PSDREC	Power Spectral Density Recognition (system)
PSEI	playback system electronic interface
PSES	pretreatment standard for existing sources
PSET	Plant Safety Evaluation Team
psf	pounds per square foot [convert to SI: kilograms per square meter (kg/m <sup>2</sup> )]
PSF	1. performance shaping factor
	2. point spread function
	3. prime solar fraction
	4. print services facility
	5. production support facility
psi	pounds per square inch [convert to SI: pascal (Pa)]
PSI	1. Process Safety Institute
	2. Professional Secretaries International
	3. Pulse Sciences, Inc.
psia	pounds per square inch, absolute [convert to SI: pascal (Pa)]
psid	pounds per square inch, differential [convert to SI: kilograms per square meter (kg/m <sup>2</sup> )]
PSID	preliminary safety information document
psig	pounds per square inch, gage [convert to SI: kilograms per square meter (kg/m <sup>2</sup> )]
PSIM	power systems information management

PSL	Problem Statement Language
PSLC	Proprietary Software License Compliance (ESS-CU-120)
PSM	1. Packaging Systems Management (Y-12) 2. process safety management
PSMS	plant safety monitoring system
PSN	proper shipping name (for hazardous material transport)
PSO	1. Pacific Site Office (DOE) 2. principal secretarial officer 3. Program Secretarial Office 4. program senior official
PSP	1. Performance Sharing Plan 2. protective shipping package
PSPC	position-sensitive proportional counter
PSQ	Personnel Security Questionnaire
PSR	preliminary safety report
PSRA	probabilistic seismic risk assessment
PSRC	Power Systems Relaying Committee
PSS	1. Plant Shift Superintendent 2. problem safety summary (ORNL) 3. project schedule sheet
PST	1. pair-selected ternary 2. Plant Safety Evaluation Team
PSTCC	Pellissippi State Technical Community College
PSTM	photon scanning tunneling microscope
PSTP	Power Systems Technology Program
PSW	1. phosphate/scrapped waste 2. phosphate/sulfate waste
PSZ	partially stabilized zirconia
Pt	platinum (element, Z = 78)
PT	1. part-time 2. performance testing 3. potential transformer
Pt(s).	Part(s) [use when followed by number(s); spell out at beginning of sentence]
PTA	plant test authorization
PTH	parathyroid hormone
PTE	part-time employee
PTF	phase transfer function
PTFE	polytetrafluoroethylene
PTI	1. permits-to-install 2. Post-Tensionary Institute 3. Power Technologies, Inc.
PTO	permit to operate
PTP	1. P-terphenyl 2. Plant Test Program
PTR	Property Transfer Record (Form UCN-541)
PTS	1. pressurized thermal shock 2. progress tracking system 3. project tracking system
PTU	pole-top unit
PTUC	PTU controller card
Pu	plutonium (element, Z = 94)
PUB	process utility building
Pub. L.	Public Law (preferred over "PL")
PUC	Public Utility Commission
PUCIP	Public Utility Conservation Investment Program
PUEP	Portsmouth Uranium Enrichment Plant (see PORTS)
PUI	Power Utilization Index
PUR	polyurethane

PUREX	plutonium/uranium extraction
PURPA	Public Utility Regulatory Policies Act of 1978
PURTA	Public Utilities Realty Tax Assessment of 1970
PV	photovoltaic
PVA	precipitate-void association
PVC	polyvinylchloride
PVDF	polyvinylidene fluoride
PVEC	photovoltaic energy conversion
PVM	parallel virtual machine
PVRC	Pressure Vessel Research Council
PVRUF	Pressure Vessel Research Users' Facility (ORNL)
PVT	1. pressure-volume-temperature 2. pressure-volume-time
PVTB	1. Producibility Validation Test Bed 2. Productivity and Validation Test Bed
PW	1. present worth 2. process waste
PW&CH	programmed work and computer history
PWA	process waste assessment
PWB	Programmer Work Bench
PWBA	plane-wave Born approximation
PWF	permanent wood foundation
PWHT	postweld heat treatment
PWL	piecewise linear (model)
PWM	1. process waste monitoring 2. pulse-width modulated
PWMI	pulse-width modulated inverter
PWMP	1. Pond Waste Management Project 2. project waste management plan
PWMS	Process Waste Monitoring System
PWR	pressurized-water reactor
PWS	Plant-Window System
PWTF	Production Waste Treatment Facility
PWTFII	Production Waste Treatment Facility II
PWTP	Process Waste Treatment Plant
PWWTF	Process Wastewater Treatment Facility
Px or PX	Pantex Plant (Amarillo, Texas)
PX	Phoenix Area Office (DOE)
PY	prior year
PZPGA	peak zero period ground acceleration
PZR	pressurizer
PZT	piezoelectric crystal
$\phi$	phase

# Q

Q-PLUS	Quality Professional Local Utilization Services
Q&C	Quality and Compliance
QA	quality assurance
QA/QC	quality assurance/quality control
QA&I	quality assurance and inspection
QAA	1. Quality Assurance Agency 2. quality assurance assessment
QAAP	1. quality assurance action plan 2. quality assurance assessment plan
QAC	1. quality assurance coordination 2. quality assurance coordinator
QAIA	Quality Assurance Inspection Agency
QAIP	quality assurance inspection procedure
QALD	quality assurance liaison detachment
QAMS	Quality Assurance management staff
QAP	1. Quality Assurance Plan 2. Quality Assurance Procedure
QAPI	Quality Assurance Procedures Index
QAPjP	Quality Assurance Project Plan
QAPP	Quality Assurance Project Plan
QAR	1. Quality Assurance Regulation 2. quality assurance representative 3. quality assurance requirement
QAS	1. quality assurance specialist 2. quality assurance survey
QATG	Quality Assurance Task Group (Energy Systems)
QBF™	QUERY-By-Forms
QC	quality control
QCD	quantum chromodynamics
QD	Quality Department (now OQPI)
QDEAS	Quality Deficiency Evaluating and Action System
QDPS	qualified display processing system
QDRO	Qualified Domestic Relations Order
QE	quality evaluation (report)
QE&I	Quality Engineering and Inspection
QER	1. Qualification Evaluation Release 2. quality evaluation report 3. quality event report
QF	qualifying facility
QG	qualified generator
QIR	1. quality incident report 2. quality investigation report
QIS	Quality Insurance System
QIT	Quality Improvement Team
QMDS	Quantitative Methods and Decision Support Group
QMF	quadrature mirror filter
QMO	Quality Management Office (DOE)
QMS	quadrupole mass spectrometer
QN	quinoline
QPBO	quality primary bridge operator
QPP	Quality Program Plan
QQPRI	Quantitative and Qualitative Personnel Requirements Information

QS	qualification sample
QSM	Quantum Structure of Matter
QSP	Questionnaire for Sensitive Positions
QSPDS	Qualified Safety Parameter Display System
QTP	qualification test plan
QTR	qualification test report
quad	[do not abbreviate this word (add "s" for plural)]
QUEL™	Query Language (trademark of Relational Technology, Inc.)
QVI	quality verification inspection



# R

R	1. ratio 2. roentgen [convert to Si: coulombs per kilogram (C/kg); sometimes "roentgen" is accepted by Energy Systems] 3. thermal resistance (R-value)
R.I.	Rhode Island (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
R-12	refrigerant-12 (liquid dichlorodifluoromethane)
R-O-R	reduction-oxidation-reduction (process)
R/D	resolver-to-digital
R/RH	robotics and remote handling
R&D	research and development
R&DSPC	Research and Development Strategic Planning Committee
R&EA	Resource and Environmental Analysis (Energy Division, ORNL)
R&PS	Robotics and Process Systems
R&SSD	Radiation and Safety Surveys Department (ORNL)
$r^2$	coefficient of determination
Ra	radium (element, $Z = 88$ )
RA	1. Rehabilitation Act of 1973 2. relative accuracy (test) 3. remedial action 4. remote access 5. Restricted Area 6. risk assessment
RAA	responsibility, authority, and accountability
RAAS	Remedial Action Assessment System
RAB	1. Reliability Assessment Board 2. riverine aquatic bed
RAC	1. Recombinant DNA Advisory Committee (NIH) 2. response action contractor 3. risk assessment code 4. Robotics and Automation Council
RACT	reasonably available control technology
rad	1. [not an abbreviation but a full word derived from <i>radiation absorbed dose</i> ; plural is "rad" or "rads"; replaces roentgen; convert to SI: gray (Gy); sometimes "rad" is accepted by Energy Systems] 2. radian [central angle of a circle determined by two radii and an arc joining them, all of the same length (math)]
RAD	radioactive
rad-hard	radiation-hardened
Rad-NESHAP	National Emission Standards for Hazardous Air Pollutants for Radionuclides
RAD/SAB	radiological sabotage
radar	radio detecting and ranging
RADC	Rome Air Development Center (Griffiss Air Force Base, New York)
RADCAL	Radiation Calibration Laboratory (ORNL)
RADCON	<i>Radiation Control</i> (Manual)
RADIAC	radiation detection, indication, and computation
Radwaste	radioactive waste
RAEC	Roane-Anderson Economic Council
RAF	1. radiation amplification factor 2. Risk Assessment Forum (EPA)
RAG	Resource Analysis Group

RAM	1. radioactive material 2. random access memory (computer term) 3. reliability/availability/maintainability 4. remote air monitor
RAMC	Resource Allocation and Mine Costing
RAMPAC	radioactive materials packaging
RANN	Research Applied to National Needs (NFS program)
RAO	1. remedial action objective 2. Research Applications Office (ORNL)
RAP	1. Radiological Assistance Program 2. Remedial Action Program (DOE) 3. Remote Advisory Panel (USAF)
RAPD	1. randomly amplified polymorphic DNA 2. remedial action program description
RAPIC	Remedial Action Program Information Center
RAS	1. radiation alarm system 2. routine analytical service 3. Russian Academy of Sciences
RASA	1. Radiological Survey Activities (group in HASRD) 2. remedial action and survey activities
RASCAL	1. Radiation and Standards Calibration Laboratory 2. Radiological Assessment System for Consequence Analysis
RASH	Rapid Assessment for the Screening of Hazard
RATP	Robotics Applied Technology Program (DOE-OTD)
RAWC	remedial action waste cleanup
Rb	rubidium (element, $Z = 37$ )
RB	1. radiant barrier 2. reactor building
RBE	relative biological effectiveness
RBL	Radiobioassay Laboratory
RBS	Rutherford backscattering spectroscopy
RBSVS	reactor building special ventilation system
RC	1. Rankine cycle 2. reactor coolant 3. record copy 4. resistance capacitance 5. resistor-capacitor
RCA	root cause analysis
RCB	Retrieval Containment Building
RCCP	Residential and Commercial Conservation Program
RCCPDS	Reserve Components Common Personnel Data System (ARNG)
RCCS	reactor cavity cooling system
RCD	ruggedized contamination detection
RCDT	reactor coolant drain tank
rcf	relative centrifugal force
RCF	refractory ceramic fiber
RCHX	reactor coolant heat exchanger
RCIC	reactor core isolation cooling
RCIS	reflector coolant isolation system
RCITS	Reactor Coolant Inventory Tracking System
RCM	reliability-centered maintenance
RCO	radiation control officer
RCP	1. Radiation Control Program 2. reactor coolant pump
RCPB	reactor coolant pressure boundary
RCPCMS	Reactor Coolant Pump Current Monitoring System
RCPMS	Reactor Coolant Pump Monitoring System
RCPVTM	Reactor Coolant Pump Void Trend Monitor

RCRA	Resource Conservation and Recovery Act of 1976 (40 CFR, Pts. 240-271; DOE Orders 5400.1 and 5820.2A)
RCRH	Resource Conservation Research House (NAHB and NHE)
RCRIS	Resource Conservation and Recovery Information System (EPA)
RCS	1. reactivity control system 2. reactor control system 3. reactor coolant system 4. remote characterization system 5. Residential Conservation Service
RCW	recirculating cooling water
RD	1. remedial design 2. Restricted Data (classification)
RD/RA	remedial design and remedial action
RD&D	1. research, design, and development 2. research, development, and demonstration
RDA	radiation detection and alarm (system)
RDBMS	relational data base management system
RDC	radon-daughter concentration
RDD	required delivery date
RDDS	resin deuteration-dedeuteration system
RDDTE	research, development, demonstration, testing, and evaluation (also RDDT&E)
RDF	1. radical distribution function 2. Radiochemical Development Facility (ORNL) 3. refuse-derived fuel
RDI	Retirement Disposal Instruction
RDL	reference documentation list
RDLP	research and development limited partnership
RDS	1. remote data substation 2. Remote Disassembly System
RDT	reactor development technology
RDWSP	Residential Drinking Water Sampling Program
Re	1. Real (math) 2. rhenium (element, $Z = 75$ )
RE	1. rare earth 2. reactive element/dispersoid
REA	Rural Electrification Administration (USDA)
REAC	Radiation Emergency Assistance Center (ORAU)
REAC/TS	Radiation Emergency Assistance Center/Training Site (ORAU)
REACH	Radiation Effects and Component Hardening
REACT	Retirement Equity Act of 1984
Real-Op	real-time expert system language
REALM	1. reactor emergency action level monitor 2. reactor emergency alarm level monitor
REARM	Rapidly Emplaced Artillery Resupply Module
REAT	renewable energy applications and training
RECA	Radiation Exposure Compensation Act of 1992
RECAP	Residential Energy Conservation Action Program
RECID	record identifier
RECON	remote console
RED	1. responsible engineer/designer 2. responsible engineering discipline
REDC	Radiochemical Engineering Development Center
REDCOM	U.S. Readiness Command
REDES	Regional Emission Database and Evaluation System
REE	Resource and Environmental Economics

REED	1. Reactor Experimental Engineering Division 2. Regional Emissions Evaluation Database 3. Rural Electrical Energy Demand (model)
ref(s).	reference(s)
REFLEX	Remote Fluvial Experimental Series
regneg	regulatory negotiated rulemaking ("REGNEG" is preferred)
REGNEG	regulatory negotiated rulemaking (preferred over "regneg")
REIRS	radiation exposure information reporting system
REL	relative exposure limit
RELM	Regional Energy Location Model
rem	[spell out; not an abbreviation but a full word derived from <i>roentgen equivalent man</i> ; plural is "rem" or "rems" (DPG prefers "rem" for both singular and plural); convert to SI: sievert (Sv); sometimes "rem" is accepted by Energy Systems]
REM	riverine emergent
REMOTEC	Remote Technology Corporation
REMP	Radiological Environmental Monitoring Program
REMS	Radiation Evaluation and Management System
REOI	request for expression of interest
rep	[spell out; not an abbreviation but a full word derived from <i>roentgen equivalent physical</i> ; plural is "rep" or "reps"; convert to SI: sievert (Sv); sometimes "rep" is accepted by Energy Systems]
REP	radiological emergency preparedness
RER	1. radiological event report 2. regulatory effectiveness review
RERC	1. Reactor Experiments Review Committee 2. Radiation Effects Research Council
RERTR	Reduced Enrichment Research and Test Reactor
RES	Remote Excavator System
RESA	1. Regional Environmental Systems Analysis (NSF project) 2. Scientific Research Society of America
RESAR	reference safety analysis report (NRC)
REST	Residence in Science and Technology
RET	renewable energy technology
RETA	R. E. Timm and Associates
RETF	Recycle Equipment Test Facility (Japan)
RETIMAC	real-time material control
RETO	reasonably expected to occur
RETF	Regional Environmental Technology Transfer Forum
rev.	revision (use in citations)
R <sub>F</sub>	Rockwell hardness (test)
rf	radio frequency (preferred over "RF")
Rf	rutherfordium (element, Z = 104)
RF	1. radio frequency ("rf" is preferred) 2. refrigerator/freezer 3. Rocky Flats 4. Rocky Flats Area Office (DOE)
RFA	1. rapid fuel analyzer 2. RCRA facility assessment 3. regulatory flexibility analysis 4. Request for Approval
RFB	Recording for the Blind (Oak Ridge)
RfD	reference dose (EPA)
RFD	1. reference dose 2. request for disposal 3. reverse-flow diverter
RFG	<i>Regulatory Facility Guide</i>

RFI	1. radio-frequency interference 2. RCRA facility investigation 3. Remedial Facility Investigation 4. Remedial Feasibility Investigation
RFO	request for offer
RFP	1. request for proposal 2. reversed-field pinch 3. reversed-field-pinch (device) 4. Rocky Flats Plant (Golden, Colorado)
RFPG	<i>Radio Frequency Protection Guide</i>
RFQ	1. radio-frequency quadrupole 2. Request for Quotation
RFTF	Radio Frequency Test Facility
RFWS	refueling water system
RG	Regulatory Guide (NRC)
RGB	red-green-blue (signal)
RGR	relative growth rate
RGT	radcal gamma thermometer
RGTA	radcal gamma thermometer assembly
Rh	rhodium (element, Z = 45)
RH	1. relative humidity 2. remotely handled
RH-TRU	remotely handled transuranic (waste)
RHCS	radiation-hardened control system
RHEED	reflection high-energy electron diffraction
RHIC	Relativistic Heavy Ion Collider
RHO	Rockwell Hanford Operations
rhp	right half-plane
RHPP	Reproductive Health Protection Program
RHR	residual heat removal
RHT	Radiation Hazard Tag (Form UCN-2785)
RI	1. remedial investigation 2. Rhode Island (use only with ZIP code addresses) 3. Rockwell International
RI/FS	remedial investigation/feasibility study
RIA	1. regulatory impact analysis 2. Rock Island Arsenal (U.S. Army)
RIB	1. radioactive ion beam 2. reflective insulating blinds
RIBI	Radioactive Ion Beam Injector
RIC	1. radial inflow converter 2. resistor-inductor-capacitor 3. Routing Identifier Code
RICS	reactor instrumentation and control system
RID	1. reconstructive inverse dynamics 2. Registry of Interpreters for the Deaf 3. Remove Intoxicated Drivers 4. requirements information document
RIF	Reduction in Force
RI/FS	remedial investigation/feasibility study
RIHRA	Research to Improve Health Risk Assessments (program)
RII	1. rainfall induced infiltration 2. recordable injury or illness (incidence rate)
RIIA	Regional Issue Identification and Assessment
RIIC	recordable injury/illness incident case
RIIR	recordable injury/illness rate (per 200,000 employee hours worked)
RILWAS	Regional Integrated Lake-Watershed Acidification Study (EPRI)
RIK	replacement in kind

RIM	1. radcal inventory meter
	2. Recreation Information Management
RIMS	1. redundant instrument monitoring system
	2. resonance ionization mass spectrometry
RIP	1. RCRA implementation plan
	2. reduction in payment
	3. Regional Inspection Report (NRC)
	4. Retirement Incentive Program (Energy Systems)
RIR	remedial investigation report
RIS	1. radiation-induced segregation
	2. regulatory impact statement
	3. Reporting Identification Symbol
	4. Research Instruments Section (I&C)
	5. resonance ionization spectroscopy
	6. Risk Information System
RIS/P	radiation-induced segregation and precipitation
RISC	reduced instruction set computer
RISP	Robotics and Intelligent Systems Program
RITF	Radiological Instrumentation Test Facility
RITTA	RCRA Integrated Training and Technical Assistance
RJB	reference junction box
RJSCEE	Russian Joint Stock Company of Energy and Electrification
RK	river kilometer
RL	Richland Operations Office (DOE)
RLA	running-load amps
RLI	radcal level instrument
RLLC	replacement limited life component
RLP	1. Radioluminescent Lighting Program
	2. rotatable log periodical
RLS	rubber-lined steel
RLU	relative light unit
RM	1. reactor manufacturer
	2. research material
	3. river mile
RMA	1. Return Merchandise Authorization (Computer Resource Systems)
	2. Rocky Mountain Arsenal
RMB	Research Management Branch
RMBL	Rocky Mountain Biological Laboratory
RMC	research material collection (inventory; used with loans, isotopes, etc.)
RMCL	recommended maximum contaminant level
RMD	Radiation Monitoring Department
RME	reasonable maximum exposure
RMFE	Russian Ministry of Fuel and Energy
RMI	1. Reactive Metals, Inc.
	2. repetitive motion injury
RMIC	1. Regional Medical Information Coalition
	2. Research Materials Information Center
RMP	1. radiological monitoring plan
	2. risk management plan (EPA)
RMR	Records Management Repository
rms	root mean square (preferred over "RMS")
RMS	1. reactor monitoring system
	2. recoil mass spectrometer
	3. root mean square ("rms" is preferred)
rms <sup>2</sup>	square of root mean square
rmse	root mean square error (preferred over "RMSE")
RMSE	root mean square error ("rmse" is preferred)
RMT	Radiological Monitoring Team

RMTT	Resource Management Team (Energy Systems)
RMU	remote multiplexing unit
Rn	radon (element, Z = 86)
RN	1. race and national origin (U.S. Army) 2. rejection notice
RNA	ribonucleic acid
RNF	robust notch filter
RO	1. reverse osmosis 2. Robotics and Process System
RO&DF	Remote Operations and Demonstration Facility
ROA	record of assembly
ROC	1. Radioactive Operations Committee 2. Reconstitution Operations Center
ROCAP	Regional Office for Central America and Panama (AID)
rod	[do not abbreviate this word; convert to SI: meter (m)]
ROD	1. Reactor Operations Division 2. Record of Decision 3. record of disassembly
ROFT	Rapid Optics Fabrication Technology
ROG	Regional Outreach Group
ROI	1. region of influence 2. region of interest
ROK	Republic of Korea
ROM	1. read-only memory 2. rough order of magnitude
ROMD	Remote Operation and Maintenance Demonstration
ROP	1. record of purchase 2. remote operating procedure
ROR	1. rate of return 2. run of river
RORC	Reactor Operations Review Committee
ROS	Recreation Opportunity Spectrum
ROW	right-of-way (plural is "rights-of-way" or "right-of-ways")
RP	1. radiation protection 2. release point 3. responsible party
RPA	random-phase approximation
RPB	Reclamation Performance Bond
RPC	remote procedure call
RPCS	reactor primary cooling system
RPD	Radiation Protection Department
RPF	radial peaking factor
RPFM	Real Property and Facilities Management (DOE)
RPI	1. Rensselaer Polytechnic Institute 2. repeating pneumatic injector
RPICS	reactor pressure and inventory control system
RPIS	Real Property Inventory System (data base) (DOE)
RPL	Raffinate Program License
RPLC	reactor power level controller
rpm	revolutions per minute
RPM	1. Reconfiguration Program Management 2. Risk-Based Prioritization Model
RPO	Reconfiguration Program Office
RPP	Radiochemical Processing Plant
RPPA	radiological protection program appraisal
RPPP	Radiochemical Processing Pilot Plant
rps	revolutions per second
RPS	reactor protection system

RPSC	Robotics and Process Systems Complex
RPSD	Robotics and Process Systems Division (formerly FRD)
RPSS	1. Radiation Protection Surveillance Section 2. relative partial sum of squares
RPU	remote pickup
RPV	reactor pressure vessel
RQ	reportable quantity
RR	radiation release
RRA	Revenue Reconciliation Act
RRAC	Reactor Review and Audit Committee
RRAD	Red River Army Depot
RRAP	risk reduction action plan
RRB	Readiness Review Board
RRC	1. Reactor Review Committee 2. Retiree Relations Center (Energy Systems) 3. Robotics Research Corporation 4. Roof Research Center (now BTC) (ORNL)
RRD	Research Reactors Division (ORNL)
RRM	Robotics Research Manipulator
RRPM	Regional Recruiting Potential Model
RRS	1. Radiation Research Society 2. Research Reactor Support
RRSG	Research Reactor Support Group
RRT	1. reactor research and technology 2. Regional Response Team
RSB	1. Reactor Support and Operations Building 2. reactor support building
RSC	1. Regional Service Center 2. Research Strategy Council
RSCC	Roane State Community College
RSCI	remote sensor and cable identifier
RSCIS	reactor secondary coolant isolation system
RSCS	reactor secondary cooling system
RSD	1. relative standard deviation 2. risk-specific dose (EPA)
RSDF	Remote Systems Development Facility
RSG	Research Support Group
RSI	Radiation Sterilizers, Inc.
RSIC	Radiation Shielding Information Center
RSMO	Regional Storage Management Office (DOD)
RSO	1. response safety officer 2. responsible supervisory official
RSP	Revenue Sharing Program (USBC/DOC)
RSPA	Research and Special Programs Administration (DOT)
RSR	1. rapid solidification rate 2. Division of Reactor Safety Research (NRC)
RSS	1. Reactor Safety Study 2. reactor scram system 3. Reactor Systems Section (I&C Division, ORNL) 4. remote shear system
RSSG	Regional Systems Services Group
RSUC	Residual Stress User Center (HTML)
RSWO	Radioactive Solid Waste Operations
RT	1. real time 2. refrigeration tons
RTA	real-time analyzer
RTCS	1. real-time computer system 2. reflector tank cooling system



RTD	1. residence time distribution 2. resistance temperature detector 3. resistance temperature device 4. resistive thermal device
RTDP	Robotics Technology Development Program (DOE-OTD)
RTEX	real-time executive
RTF	1. Reprocessing Test Facility 2. Roof Testing Facility (ORNL)
RTG	1. radioisotope thermal generator 2. radioisotope thermionic generator 3. radioisotope thermoelectric generator
RTI	Research Triangle Institute
RTIL	reactor trip initiation logic
RT <sub>NDT</sub>	reference nil-ductility-transition temperature
RTP	real-time pricing
RTP	room-temperature phosphorescence
RTR	1. real-time radiography 2. Regional Training Program
RTRA	Roof Thermal Research Apparatus (ORNL)
RTS	1. Radioactive Tracer Survey 2. reactor trip subsystem 3. reactor trip switchgear 4. reactor trip system 5. Roane Technical Society
RTT	robotics technology testbed
RTU	1. remote terminal unit 2. remote transponder unit
RTV	1. real-time video 2. room temperature vulcanizing
Ru	ruthenium (element, Z = 44)
RU	regulated unit
RUMS	Random Utility Model of Consumers' Surplus
RUSTIC	Regional and Urban Studies Information Center
RV	1. reactor vessel 2. recreational vehicle 3. Reentry Vehicle
RVAA	Request for Visit or Access Approval (DOE form)
RVCS	reflector vessel cooling system
RVD	recreation visitor day
RVDT	rotary variable differential transformer
RVHLM	reactor vessel head level monitor
RVLIS	reactor vessel level indicating system
RVLMS	reactor vessel level monitoring system
RVP	Reid Vapor Pressure
RVRLIS	reactor vessel refueling level indication system
RW	Office of Civilian Radioactive Waste Management (DOE) (also DOE/RW; also OCRWM)
RWCU	reactor water cleanup
RWMC	Radioactive Waste Management Complex (INEL)
RWMD	Reservation Waste Management Division
RWOFA	Reimbursable Work for Other Federal Agencies
RWP	1. Radiation Work Permit 2. Radiological Work Permit 3. Residential Weatherization Program
RWQCB	Regional Water Quality Control Board
RWS	1. reactor water system 2. Rural Water Survey
RWST	refueling water storage tank

RX

1. receiver (radio)
2. resolver-transmitter

RYM

Refinery Yield Model

°R

degrees Rankine

°Re

degrees Reaumur

# S

s	second (do NOT use "sec" for "second"; use "sec" for "secant")
S	<ol style="list-style-type: none"> <li>1. Secret (classification)</li> <li>2. siemens (same spelling for both singular and plural)</li> <li>3. sulfur (element, Z = 16)</li> </ol>
S	standard deviation (also SD, $S_p$ , or $\sigma$ )
S.C.	South Carolina (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
S.D.	South Dakota (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
S.E.	standard error (math)
S.R.	State Route (use when followed by number)
s-ft	second-foot (contraction of cubic feet per second steam discharge) [convert to SI: second-meter (s-m)]
S-RD	Secret-Restricted Data
S-S	SEMISCALE (see SEMISCALE)
S/A	subassembly
S/N	signal-to-noise (see SNR)
S/R	shipper/receiver
S&A	sampling and analysis
S&E	Study and Estimates
S&H	safety and health
S&HC	Safety and Health Compliance
S&HD	Safety and Health Division
S&HP	Safety and Health Protection
S&HR	<i>Safety and Health Report</i>
S&I	Savings and Investment (Contract)
S&M	surveillance and maintenance (preferred over "M&S")
S&S	Safeguards and Security
S&T	scientific and technical (personnel)
S&W	Stone & Webster
S <sub>2</sub> F <sub>10</sub>	disulfur decafluoride
SA	<ol style="list-style-type: none"> <li>1. safety analysis</li> <li>2. safety assessment</li> <li>3. security affairs</li> <li>4. sintered alpha</li> <li>5. solution-annealed</li> </ol>
SA-ALC	San Antonio Air Logistics Center (USAF)
SA/BM	systems analysis and battle management
SAA	<ol style="list-style-type: none"> <li>1. satellite accumulation area</li> <li>2. Society for Applied Anthropology</li> <li>3. Special Achievement Award</li> </ol>
SAAC	Simulator for Air-to-Air Combat
SAAP	Supercomputer Automotive Applications Partnership
SAB	Science Advisory Board
SABL	sequencing and batch language
SAC	<ol style="list-style-type: none"> <li>1. Sacramento Area Office (DOE)</li> <li>2. Self-Assessment Committee</li> <li>3. Strategic Air Command</li> </ol>
SACAM	Saturday Academy for Computing and Mathematics (ORNL program for high school seniors)
SACNET	Secure Automatic Communications Network (formerly SADIE)
SACRD	Safety Analysis Computerized Reactor Data

SAD	selective area diffraction
SADARM	search and destroy armor
SADC	safety analysis documentation officer
SADIE	Secure Automatic Data Information Exchange (now SACNET)
SADS	Statistical Analysis of Data Subsets
SAF	1. secure automated facility 2. Society of American Foresters
SAFE	selective automated file encryption (computer term)
SAFER	1. Division of Safeguards, Fuel Cycle, and Environmental Research (NRC) 2. streamlined approach for environmental restoration (DOE)
SAFESA	U.S. Army Facilities Engineering Support Agency
SAFR	Sodium Advanced Fast Reactor (an LMR)
SAFSTOR	(a nuclear plant decommissioning method)
SAHEP	Southern Association for High Energy Physics (established 1989)
SAI	Science Applications International, Inc.
SAIC	Science Applications International Corporation
SAIL	Scheduling Algorithm for Improving Lift
SAILS	Single-Aircraft Instantaneous Line Source (model)
SALP	Systematic Assessment of Licensee Performance (NRC)
SALS	signal acquisition and logging system
SAM	1. security access control and monitoring system 2. security alarm monitoring system 3. small-article monitor 4. Society for the Advancement of Management 5. Symantec AntiVirus for Macintosh
SAMA	1. Scientific Apparatus Makers Association 2. Scientific Apparatus Manufacturers Association
SAMBC	Southern Appalachian Man and the Biosphere Cooperative
SAMDA	severe accident mitigation design alternative
SAMPE	Society for the Advancement of Material and Process Engineering
SAN	San Francisco Operations Office (DOE)
SANS	small-angle neutron scattering
SANSF	Small Angle Neutron Scattering Facility
SAO	SERI Area Office (DOE)
SAP	Sampling and Analysis Plan
SAPF	Southwestern Area Production Facilities (Division) (DOE)
SAPFERP	Southwestern Area Production Facilities Environmental Restoration Program (HAZWRAP)
SAR	1. safety analysis report 2. specific absorption rate
SARA	1. Service Academy Research Associate (program) 2. Superfund Amendments and Reauthorization Act of 1986 (40 CFR, Pt. 300) (see CERCLA, EPCRA, and SITE)
SARC	Safety Analysis and Review Committee
SARMG	Safety Analysis Report Management Group
SARP	Safety Analysis Report for Packaging
SARUP	Safety Analysis Report Update Program
SARWG	Safety Analysis Report Working Group
SAS	1. Safety Assessment System 2. secondary alarm station 3. Statistical Analysis System 4. Strategic Alternatives Study 5. Surveillance Data Base, Analysis, and Standardization
SASA	Severe Accident Sequences Analyses (Program)
SASS	Source Assessment Sampling System
SAT	systems approach to training
SATKA	Surveillance, Acquisition, Tracking, and Kill Assessment
SATPIG	Scientific and Technical Publishing Interest Group

SAVE	Society of American Value Engineers
SAW	1. sawlog harvest 2. surface acoustic wave
SAXS	small-angle X-ray scattering
SAXSF	Small-Angle X-Ray Scattering Facility
sb	stilb [convert to SI: candelas per square meter (cd/m <sup>2</sup> )]
Sb	antimony (element, Z = 51)
SBA	Small Business Administration
SBC	sum of base cations
SBDC	Small Business Development Center (PSTCC)
SBGT	standby gas treatment
SBH	sequencing by hybridization
SBI	Small Business Initiative
SBIR	Small Business Innovation Research
SBL	space-based laser
SBLC	standby liquid control
SBLOCA	small-break loss-of-coolant accident
SBP	Site Benefit Plans
SBPB	space-based particle beam
SBPO	Site Benefit Plans Office
SBR	space-based radar
SBSS	Space-Based Surveillance System
SBU	strategic business unit
SBWR	simplified boiling-water reactor
Sc	scandium (element, Z = 21)
SC	1. safety class 2. self-commutated (inverter) 3. serial communications 4. South Carolina (use only with ZIP code addresses) 5. Stanford Linear Accelerator Center 6. steam cycle 7. super collider
SC-TRU	special-case transuranic waste
SCA	signal conditioning amplifier
SCADA	Supervisory Control and Data Acquisition (System)
SCAP	Superfund Comprehensive Accomplishments Plans
SCAQMD	South Coast Air Quality Management District
SCB	South Central Bell
SCBA	self-contained breathing apparatus
SCC	Site Control Center
sccm	standard cubic centimeters per minute
SCDHEC	South Carolina Department of Health and Environmental Control
SCE	1. saturated calomel electrode 2. Southern California Edison
ScEES	Superconductivity for Electric Energy Systems
SCEPS	Stored Chemical Energy Propulsion System
SCEUR	shell cooling energy use rate
scf	standard cubic foot [convert to SI: cubic meter (m <sup>3</sup> )]
SCF	1. self-consistent field 2. solar correction factor
scfm	standard cubic feet per minute [convert to SI: cubic meters per second (m <sup>3</sup> /s)]
SCFP	Surplus Contaminated Facilities Program
SCHP	Stirling-cycle heat pump
SCI	1. Safety Class Item 2. Sensitive Compartmented Information (classification) 3. Systems Control, Inc.
SCICO	site classified information control officer (Energy Systems)
SCID	severe combined immunodeficiency disease

SCIF	Sensitive Compartmented Information Facility
SCL	Secondary Calibration Laboratory (program, NIST)
SCLDS	Submarine Countermeasure Launcher Diagnostic System
SCM	Surface Compartment Model
SCMP	Site Corrective Measures Program
SCO	<ol style="list-style-type: none"> <li>1. Statistical Computing Office</li> <li>2. source control officer</li> <li>3. Support Computing Office</li> <li>4. Support Contractor Office</li> </ol>
SCOBUS	Small Commercial Building Use Study (CACS)
SCOPE	Scientific Committee on Problems of the Environment (US-IGBP)
SCP	site characterization plan
SCPA	Southern College Placement Association
SCR	<ol style="list-style-type: none"> <li>1. selective catalytic reduction</li> <li>2. silicon-controlled rectifier</li> </ol>
SCRA	Social Choice and Risk Analysis
SCRE	Service Corps of Retired Executives
SCS	<ol style="list-style-type: none"> <li>1. shutdown cooling system</li> <li>2. signal conditioning system</li> <li>3. Soil Conservation Service (USDA)</li> </ol>
SCSC	Scientific and Commercial Systems Corporation
SCSEP	Society of Computer Simulation Emergency Planning
SCSI	small-computer system interface
SCSS	Sequence Coding and Search System
SCTF	Slab Core Test Facility (Japan)
SCTI	Sodium Components Test Installation
SCU	<ol style="list-style-type: none"> <li>1. signal conditioning unit</li> <li>2. simulator control unit</li> </ol>
SCUU	Southern College University Union
SD	<ol style="list-style-type: none"> <li>1. solid dielectric</li> <li>2. South Dakota (use only with ZIP code addresses)</li> <li>3. space defense technology</li> <li>4. standard deviation (also <math>S</math>, <math>S_p</math>, or <math>\sigma</math>)</li> </ol>
SDB	small disadvantaged business
SDC	<ol style="list-style-type: none"> <li>1. shutdown cooling</li> <li>2. Solenoidal Detection Collaboration</li> <li>3. Strategic Defense Command</li> <li>4. Supplementary Design Criteria</li> <li>5. Systems Development Corporation</li> </ol>
SDC/DMJM	Systems Development Corporation/Daniel, Mann, Johnson & Mendenhall
SDD	<ol style="list-style-type: none"> <li>1. software design document</li> <li>2. system design description</li> </ol>
SDF	statistical distribution function
SDG	Systems Development Group (Energy Division, ORNL)
SDG&E	San Diego Gas & Electric Company
SDHW	solar domestic hot water
SDI	<ol style="list-style-type: none"> <li>1. Selective Dissemination of Information</li> <li>2. Steel Deck Institute</li> <li>3. Steel Door Institute</li> <li>4. Strategic Defense Information</li> <li>5. Strategic Defense Initiative (of SDT)</li> </ol>
SDII	Strategic Defense Initiative Institute
SDIO	<ol style="list-style-type: none"> <li>1. Strategic Defense Initiative Office (of SDT)</li> <li>2. Strategic Defense Initiative Organization</li> </ol>
SDM	systems/development methodology
SDO	<ol style="list-style-type: none"> <li>1. schedule day of</li> <li>2. scheduled day off</li> </ol>

SDOR	Saltless Direct Oxide Reduction
SDP	1. site development and facilities utilization plan 2. site development plan 3. site development planning
SDR	1. standard dimension ratio 2. Supplier Deviation Request
SDS	1. shutdown system 2. sodium dodecyl sulfate 3. software design specification 4. Source Data System
SDT	Space and Defense Technology (program of ETAC)
SDTP	Space and Defense Technology Program (Energy Systems)
SDTS	Spatial Data Transfer System
SDWA	Safe Drinking Water Act of 1974 (Amendments of 1977, 1986) (40 CFR, Pts. 140-149; DOE Order 5400.5)
SDWAA	Safe Drinking Water Act Amendments of 1986 (EPA)
SDZ	surface danger zone
Se	selenium (element, Z = 34)
SE	1. safety evaluation 2. Security Evaluation 3. Southeastern Power Administration 4. standard error
SEA	1. Science and Engineering Associates, Inc. 2. Significant Event Award (Martin Marietta Corp.)
SEAB	Secretary of Energy Advisory Board
SEAPPM	<i>Safety and Environmental Administrative Policy and Procedures Manual</i>
SEAREX	Sea-Air Exchange Program
SEAS	Strategic Environmental Assessment System
SEASTRAT	Sealift Strategic Analysis Subsystem
SEB	Source Evaluation Board
sec	secant (trigonometric function) (do NOT use "sec" for "second"; use "s" for "second")
SEC	1. Science and Engineering Council (U.K.) 2. Skills Enhancement Center (Energy Systems) 3. summer energy consumption/cost
SECEX	secondary extraction system (see PRIMEX)
sech	hyperbolic secant (hyperbolic function)
SECME	Southeastern Consortium for Minorities in Engineering
SECP	State Energy Conservation Plan/Program (DOE)
Sect(s).	Section(s) (use only if followed by number; spell out at beginning of sentence)
SED	1. Safety Engineering Department (formerly Systems Engineering Department) 2. site emergency director
SEDR	State Energy Data Report
SEE	Small Emplacement Excavator
SEED	Summer Education Experience for the Disadvantaged
SEER	1. Office of Science, Education, and External Relations (ORNL)(CNIE) 2. seasonal energy efficiency ratio 3. structural excitation and evaluation response
SEG	Scientific Ecology Group, Inc.
SEHG	solar energy heat gain
SEHP	Stirling engine heat pump
SEI	Space Exploration Initiative (Program)
SEIS	supplemental environmental impact statement (see DEA, DEIS, DES, DPEIS, EA, EAW, EIA, EIAP, EIS, ER, ERIS, ESR, FEA, FEIS, FES, FPEIS, GEIS, PA/SI, PDEA, PDEIS, PDES, PEIA, and PEIS)
SEIU	Service Employees International Union
SEL	sound equivalent level

SELT	sound exposure level (tone corrected)
SEM	scanning electron microscopy
SEMATEC	semiconductor manufacturing technology
SEMISCALE	Semiscale Test Facility (INEL)
SEMMSS	Systems and Equipment Maintenance Monitoring for Surface Ships (program)
SEMP	1. Strategic Facilities Management Plan 2. Systems Engineering Management Plan
SEN	Secretary of Energy Notice
SENB	single-edge, notched-beam (technique)
SEO	State Energy Office
SEOC	State Emergency Operations Center
SEP	Skills Enhancement Program (Energy Systems)
SEPER	1. Science Education Programs and External Relations (ORNL) 2. State Energy Price and Expenditure Report
SER	1. safety evaluation report 2. safety evaluation review 3. standard evaluation report
Ser.	Series (use when followed by number)
SERC	1. Science Education Resource Center 2. Southeastern Electric Reliability Council 3. State Emergency Response Commission
SERI	Solar Energy Research Institute
SERODS	surface-enhanced Raman optical data storage
SERODSS	Surface-Enhanced Raman Optical Data Storage System
SERP	1. Safety Evaluation Report for Packaging 2. Sedimentary Rock Program 3. Supplemental Equalization Retirement Plan
SERS	1. Science and Engineering Research Semester 2. selective equipment removal system 3. surface-enhanced Raman spectroscopy
SES	1. Senior Executive Schedule (U.S. Army) 2. summer energy savings
SESAPS	Southeastern Section of the American Physical Society
SET	sequential entry type
SETA	systems engineering and technical assistance
SETAC	1. Science Engineering and Technology Applications Corporation 2. Society of Environmental Toxicology and Chemistry
SETCF	Society of Environmental Toxicology and Chemistry Foundation
SETF	1. Solvent Extraction Test Facility 2. Statistical Environmental Test Facility
SEV	state equalized value
SF	1. San Francisco Operations Office (DOE) 2. screening factors 3. single family 4. solar factor 5. spontaneous fission 6. standard form
SF <sub>6</sub>	sulfur hexafluoride
SFC	1. shop floor control 2. Synthetic Fuels Corporation
SFD	1. spectral feature detector 2. spent fuel disassembly
SFE	supercritical fluid extraction
SFI	Strategic Facilities Initiative
SFMP	Surplus Facilities Management Plan/Program/Project
SFMPO	Surplus Facilities Management Program Office
SFP	Site and Facility Planning
SFPE	Society of Fire Protection Engineers



SFR	system functional requirement
SFRD	Secret Formerly Restricted Data (classification)
SFS	summer fractional savings
SFSD	steep-front, short-duration
SFT	<ol style="list-style-type: none"> <li>1. stacking fault tetrahedra</li> <li>2. Stockpile Flight Test</li> <li>3. Super Fixed Target</li> <li>4. Surveillance Flight Test</li> </ol>
SFUP	Strategic Facilities Utilization Program
SFWG	Spent Fuel Working Group
$S_s$	standard deviation (also $S$ , $SD$ , or $\sigma$ )
Sg	seaborgium (element, $Z = 106$ )
SG	<ol style="list-style-type: none"> <li>1. synthesis gas</li> <li>2. steam generator</li> </ol>
SGF	solar gain factor
SGI	<ol style="list-style-type: none"> <li>1. sonic-geophysical imaging</li> <li>2. sonic-geophysical-imaging (apparatus)</li> </ol>
SGML	Standard Generalized Markup Language
SGN	Societe Generale pour les Techniques Nouvelles (General Society for New Techniques)
SGR	<ol style="list-style-type: none"> <li>1. specific growth rate</li> <li>2. Sodium Graphite Reactor</li> </ol>
SGS	segmented gamma scan
shf	superhigh frequency
SH	<ol style="list-style-type: none"> <li>1. Southern Hemisphere</li> <li>2. superhigh</li> </ol>
SH&Q	safety, health, and quality
SHaRE	Share Research Equipment (see SMF)
SHEAF	Space Heating Fraction (model)
SHEUR	shell heating energy use rate
SHL	short half-life
SHML	Ships Hazardous Materials List
SHPF	seasonal heating performance factor
SHPO	<ol style="list-style-type: none"> <li>1. State Historic Preservation Office</li> <li>2. state historic preservation officer</li> </ol>
SHR	sensible heat ratio
SHRT	shutdown heat removal test
Si	silicon (element, $Z = 14$ )
SI	<ol style="list-style-type: none"> <li>1. International System of Units (Système International d'Unités) (standard metric units; replaced mks and mksa systems)</li> <li>2. security inspector</li> <li>3. site inspection</li> <li>4. site investigation</li> <li>5. standing instruction</li> </ol>
$Si_3N_4$	silicon nitride
SIA	social impact analysis
SIAG	Social Impacts Analysis Group
SIAM	Society for Industrial and Applied Mathematics
SiC	silicon carbide
SIC	<ol style="list-style-type: none"> <li>1. specific inductance capacity (relative dielectric constant)</li> <li>2. Standard Industrial Classification</li> <li>3. Standard Industrial Code</li> </ol>
SICS	safety implications of control systems
SID	<ol style="list-style-type: none"> <li>1. software implementation diagram</li> <li>2. system interface definition</li> </ol>
SIER	Special Instruction Engineering Release
SIF	Stable Isotope Facility (UT)

SIG	special interest group
SIGGRAPH	Special Interest Group on Computer Graphics (ACM)
SIH	standard industrial hazard
SIL	International Association of Theoretical and Applied Limnology
SIM	Society of Internal Medicine
SIMS	secondary ion mass spectrometry
sin	sine (trigonometric function)
sinh	hyperbolic sine (hyperbolic function)
SIO	Scripps Institute of Oceanography
SIOH	supervision, inspection, and overhead
SIP	state implementation plan
SIPS	Smart Isolated Port Switch
SIR	<ol style="list-style-type: none"> <li>1. safe integral reactor</li> <li>2. savings-to-investment ratio</li> <li>3. Scientific Information Retrieval (system)</li> <li>4. standardized incidence ratio</li> <li>5. Submarine Intermediate Reactor</li> <li>6. U.S. Statutory Invention Registration</li> </ol>
SIRIS	<ol style="list-style-type: none"> <li>1. sputter-induced resonance ionization spectroscopy</li> <li>2. sputter-initiated resonance ionization spectroscopy</li> </ol>
SIS	special isotope separator
SISD	single instruction, single data
SISF	superlattice intrinsic stacking fault
SISO	single input/single output
SITE	Superfund Innovative Technology Evaluation (see CERCLA, EPCRA, and SARA)
SITEX	surface ionization transverse extraction
SIU	signal injection unit
SJC	secondary jobs created
SJCAPCD	San Joaquin County Air Pollution Control District
SJI	Steel Joist Institute
SKI	Swedish Nuclear Inspectorate
SL	<ol style="list-style-type: none"> <li>1. safety limit</li> <li>2. Special Linear (math)</li> </ol>
SLA	Special Libraries Association
SLAC	Stanford Linear Accelerator Center
SLAPS	St. Louis Airport Site (DOE)
SLB	shallow land burial
SLBM	submarine-launched ballistic missile
SLC	Salt Lake City Area Office (DOE)
SLCG	Software License Compliance Group (Energy Systems)
SLCS	standby liquid control system
SLED	State-Level Electricity Demand (Model) (ORNL)
SLF	sanitary landfill
SLF-II	Y-12 Sanitary Landfill
SLFP	short-lived fission product
SLG	Science Linkage Grant (NATO)
SLGM	State-Level Gasoline Model (OEA/ORNL)
SLIM	Success Likelihood Index Method
SLIP	Serial Line Internet Protocol
SLIP/PPP	Serial Line Internet Protocol/Point-to-Point Protocol
SLLW	solid low-level (radioactive) waste
SLSA	Special Limited Security Area
SLT	Stockpile Laboratory Test
SLUC	standard level user charge
Sm	samarium (element, Z = 62)

SM	1. secondary minimum 2. smart meter 3. Stockpile Memorandum
SMA	shielded metal arc (welding)
SMAC	1. shipment mobility/accountability collection 2. Surface Modification and Characterization (Facility/Laboratory)
SMAC/CRC	Surface Modification and Characterization Collaborative Research Center
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association
SMART	Science and Mathematics Action for Revitalized Teaching
SMAUG	Smoky Mountain Area Users Group
SMB	server message block
SMC	sensor-to-computer module
SMCA	Single Manager for Conventional Ammunition (DOD)
SMCL	secondary maximum contaminant level
SMCS	Security Management Control System
SMCRA	Surface Mining Control and Reclamation Act of 1977
SME	1. Society of Manufacturing Engineers 2. Society of Mining Engineers 3. Subject Matter Expert (U.S. Army)
SMEF	Small Manager Equity Fund
SMES	superconducting magnetic energy storage
SMF	1. Seed Money Fund (ORNL) 2. SHaRE Microanalysis Facility (see SHaRE) 3. System Management Facility
SMG	Senior Management Group
SMHP	superconducting magnetic heat pump
SMI	soldier-machine interface
SMIC	Structured Materials Information Center (ORNL)
SML	Source Material License
SMLA	Source Material License Application
SMM	1. site maintenance manager 2. Solar Maximum Mission 3. special material management 4. Subcooling Margin Monitor
SMO	1. Samoa Observatory, American Samoa 2. social movement organization
SMORN	Specialists Meeting on Reactor Noise
SMP	1. site management plan 2. state management plan 3. storage move processor
SMPG	seat miles per gallon
SMR	standardized mortality ratio
SMRF	Superconducting Motor Research Facility
SMS	1. scanning microsclerometer 2. Subcriticality Measurement System 3. Systematic Management Services
SMS/SWE	Smoky Mountain Section of the Society of Women Engineers
SMSA	Standard Metropolitan Statistical Area
SMT	Supply Maintenance and Transportation
SMT/DARCOM	Supply Maintenance and Transportation/Development and Readiness Command
SMTP	Simple Mail Transfer Protocol
SMUD	Sacramento Municipal Utility District
Sn	tin (element, $Z = 50$ )
SNA	Systems Network Architecture
SNAP	1. Shipboard Nontactical ADP Program 2. Sneh Aero Electric Power (Israel) 3. space nuclear auxiliary power

SNARL	suggested no adverse response level
SNAS	Strategic National Alternatives Study
SNC	1. significant noncompliant (facility) 2. significant noncomplier
SNET	Southern New England Telephone Company
SNF	spent nuclear fuel
SNG	substitute natural gas
SNIH	significant, nonstandard industrial hazard
SNL	Sandia National Laboratories
SNLA	Sandia National Laboratories-Albuquerque
SNLL	Sandia National Laboratories-Livermore
SNLN	Sandia National Laboratory Nevada Test Site
SNLT	Sandia National Laboratory Tonopah Test Range
SNM	1. Society of Nuclear Medicine 2. special nuclear material 3. Special Nuclear Material (license)
SNMP	Simple Network Management Protocol
SNR	1. Schenectady Naval Reactors Office (DOE) 2. signal-to-noise ratio (see S/N) 3. Supplier Nonconformance Report (a project in Oslo, Norway)
SNSF	Secret National Security Information
SNSI	Swedish Natural Science Research Council
SNSRC	1. sensitive nuclear technology 2. Snettisham Project Office (DOE)
SNT	Standardized Nuclear Unit Power Plant System
SNUPPS	significant new use rule
SNUR	tensile strength
S <sub>o</sub>	safety officer
SO	sulfur dioxide
SO <sub>2</sub>	State Oversight Agreement Program
SOAP	1. Site Operations Center 2. synthetic organic chemical
SOC	Synthetic Organic Chemical Manufacturers Association
SOCMA	synthetic organic chemical manufacturing industries
SOCMI	Special Operations Command
SOCOM	solid oxide fuel cell
SOFC	Stratospheric Observatory for Infrared Astronomy
SOFIA	Site Office Facility Representative Program (DOE)
SOFRP	silicon on insulator
SOI	supervised on-the-job training
SOJT	soluble
sol	Systems Integrations Operations/Logistics Model
SOLMOD	solution (MSDS)
soln	State Oversight Office (ORNL)
SOO	1. Save Our Planet 2. standard operating procedure
SOP	Sonar Signal Analysis System
SoSAS	Sonar Signal Analysis System Phase II
SoSAS-II	Standard Operating Safety Guidance
SOSG	State-of-the-Art Contingency Analysis
SOTACA	solenoid-operated valve
SOV	1. scope of work 2. statement of work
SOW	sulfur oxide(s)
SO <sub>x</sub>	oxides of sulfur
SOX	spin (math)
sp	Symplectic (math)
Sp	

SP	1. spontaneous potential (geophysical logging) 2. spouse preference (U.S. Army) 3. steam plant
sp gr	specific gravity
sp ht	specific heat
sp vol	specific volume
SPA	State Program Advisory
spall	spallation
SPARC	Students Promoting Awareness of Races and Culture
SPAWAR	U.S. Navy Space and Naval Warfare Systems Command
SPC	1. Strategic Planning Committee (ORNL) 2. Superconductivity Pilot Center (ORNL)
SPCC	1. spill prevention control and countermeasure 2. Spill Prevention, Control and Countermeasures Plan
SPCCCP	spill prevention control countermeasures and contingency plan
SPCCP	Spill Prevention Control and Countermeasures Plan
SPCT	Subproject Coordination Team
SPD	1. Security Patrol Department 2. self-powered detector 3. Small Projects Design (group) 4. Summary Plan Description
SPDS	Safety Parameter Display System
SPE	1. Society of Professional Engineers 2. solid phase extraction
SPEERA	Secretarial Panel for the Evaluation of Epidemiology Research Activities
SPERT	Special Power Excursion Reactor Test
SPF	1. seasonal performance factor 2. Slow Positron Facility (proposed for ANS) 3. standard project flood
SPFC	cooling seasonal performance factor (also CSPF)
SPFH	heating seasonal performance factor (also HSPF)
SPG	single phase to ground
SPGD	self-powered gamma detector
SPI	Socioeconomic Performance Initiative (BM&A)
SPIE	Society of Photo-Optical Instrumentation Engineers
SPL	sound pressure level
SPM	site project manager
SPMS	1. Safety Performance Measurement System 2. strategic planning and management system
SPND	self-powered neutron detector
SPO	South Pole Observatory (Antarctica)
SPOC	single point of contact
SPOIE	Society of Photo-Optical Instrumentation Engineers
SPORT	single-pallet-only rocket transporter
SPP	standard practice procedure
SPR	1. single-point resistance (geophysical logging) 2. spill prevention and response 3. state-protected river 4. Strategic Petroleum Reserve 5. surface-penetrating radar
SPRC	Sandia Pulsar Reactor Core
SPREX	Spring Runoff Experiment (DOE)
SPRM	Site Procedures and Records Management (Organization) (K-25)
SPRPMO	Strategic Petroleum Reserve Project Management Office
SPRPO	Strategic Petroleum Reserve Project Office
SPT	Strategic Planning Team
SPWTF	Steam Plant Wastewater Treatment Facility
sq	square

SQ	splat quenched
SQA	software quality assurance
SQIPT	Site Quality Improvement Program Training
SQL	Structured Query Language (ORACLE)
sr	steradian
Sr	strontium (element, Z = 38)
SR	<ol style="list-style-type: none"> <li>1. Savannah River Operations Office (DOE)</li> <li>2. spills and releases</li> <li>3. state route</li> <li>4. surveillance requirement</li> <li>5. synchrotron radiation</li> <li>6. systems requirement</li> </ol>
SRA	<ol style="list-style-type: none"> <li>1. Society for Risk Analysis</li> <li>2. Special Recognition Award</li> <li>3. state recreational area</li> </ol>
SRBC	Susquehanna River Basin Commission
SRC	<ol style="list-style-type: none"> <li>1. spill response coordinator</li> <li>2. solvent refined coal</li> <li>3. Standard Requirement Code</li> <li>4. Synergic Resource Corporation</li> </ol>
SRC/UIC	Standard Requirement Code/Unit Identification Code
SRCPP	Solvent Refined Coal Pilot Plant
SRD	<ol style="list-style-type: none"> <li>1. Secret Restricted Data (classification)</li> <li>2. systems requirement and description</li> <li>3. systems requirement document</li> </ol>
SRE	Sodium Reactor Experiment
SREMP	source region electromagnetic pulse
SREX	strontium extraction
SRF	State Revolving Fund
SRFD	Secret Formerly Restricted Data (classification)
SRI	select rod insertion
SRIC	short-rotation intensive culture (woody energy feedstocks)
SRIDP	Savannah River Integrated Demonstration Project
SRIP	<ol style="list-style-type: none"> <li>1. Soldier-Robot Interface Project</li> <li>2. Special Retirement Incentive Program (Energy Systems)</li> </ol>
SRL	<ol style="list-style-type: none"> <li>1. Savannah River Laboratory</li> <li>2. structural return loss</li> </ol>
SRM	<ol style="list-style-type: none"> <li>1. shared resource management</li> <li>2. standard reference material</li> </ol>
SRO	<ol style="list-style-type: none"> <li>1. Salt Repository Office</li> <li>2. Savannah River Operations (DOE)</li> <li>3. senior reactor operator</li> <li>4. short-range order</li> <li>5. Southern Regional Office/Savannah River Operations (DOE)</li> </ol>
SRP	<ol style="list-style-type: none"> <li>1. Savannah River Plant</li> <li>2. Savannah River Project</li> <li>3. short-range plan</li> <li>4. soluble reactive phosphorus</li> <li>5. standard review plan</li> <li>6. Summer Research Program</li> </ol>
SRS	<ol style="list-style-type: none"> <li>1. Savannah River Site</li> <li>2. software requirement specification</li> </ol>
SRSS	secondary reactor shutdown system
SRT	Special Response Team
SRTC	Savannah River Technology Center
SRTU	substation remote terminal unit
SRW	<ol style="list-style-type: none"> <li>1. solid radioactive waste</li> <li>2. strategic reconnaissance wing</li> </ol>

SRWCP	Short Rotation Woody Crops Program
SS	<ol style="list-style-type: none"> <li>1. safety study</li> <li>2. sole source</li> <li>3. solid state</li> <li>4. Solid State Division (ORNL)</li> <li>5. stainless steel</li> <li>6. steady state</li> </ol>
SS&EM	Safeguards, Security, and Emergency Management
SS&EP	Safeguards, Security, and Emergency Preparedness Division
SSA	<ol style="list-style-type: none"> <li>1. Social Security Administration</li> <li>2. System Safety Analysis</li> </ol>
SSAR	<ol style="list-style-type: none"> <li>1. site safety analysis report</li> <li>2. standard safety analysis report</li> </ol>
SSARR	Streamflow Synthesis and Reservoir Regulation (model)
SSAS	sonar signal analysis system
SSB	<ol style="list-style-type: none"> <li>1. single sideband</li> <li>2. Solid State Sciences Building</li> <li>3. Source Selection Board</li> </ol>
SSC	<ol style="list-style-type: none"> <li>1. structures, systems, and components</li> <li>2. Superconducting Super Collider</li> <li>3. support service contractor</li> </ol>
SSCs	systems, structures, and components
SSD	Safeguards and Security Department
SSE	<ol style="list-style-type: none"> <li>1. safe-shutdown earthquake</li> <li>2. Safety Systems Engineering</li> </ol>
SSEB	Southern States Energy Board
SSEDP	Southern States Energy Data Project
SSEM	Safeguards, Security, and Emergency Management (Energy Systems)
SSES	storm sewer evaluation survey
SSG	Special Services Group (TNS)
SSF	<ol style="list-style-type: none"> <li>1. simultaneous saccharinification and fermentation</li> <li>2. solar savings fraction</li> <li>3. solid storage facility</li> </ol>
SSHEA	Site-Specific Hazards Evaluation Addendum
SSHM	site safety and health manager
SSHO	site safety and health officer
SSHP	site safety and health plan
SSI	screening site inspection
SSLC	<ol style="list-style-type: none"> <li>1. safety system logic cabinet</li> <li>2. Safety System Logic and Control</li> </ol>
SSM	mercury-on-suspended matter
SSMPP	Safeguards and Security Management and Planning Process
SSMS	spark-source mass spectrometry
SSN	<ol style="list-style-type: none"> <li>1. Social Security Number</li> <li>2. System Select Network</li> </ol>
SSNM	Strategic Special Nuclear Material
SSO	<ol style="list-style-type: none"> <li>1. Safeguards and Security Organization (Energy Systems)</li> <li>2. Shift Superintendent's Office</li> <li>3. source selection official</li> </ol>
SSOD	storm sewer outfall ditch
SSP	site-specific plan
SSPF	Sludge and Soils Processing Facility (Y-12 Plant)
SSPS	solid state protection system
SSR	<ol style="list-style-type: none"> <li>1. site safety representative</li> <li>2. surveillance summary report</li> </ol>
SSRR	Safeguards and Security Readiness Review
SSS	storm sewer system
SSSA	Soil Science Society of America

SSSP	Safeguards and Security Site Plan
SSST	1. site suitability source term 2. Southeastern Symposium on System Theory
SST	1. safe secure transport 2. single-shell tank
SSTR	solid state track recorder
SSTS	Satellite Surveillance Tracking System
St	stoke [convert to SI: square meters per second (m <sup>2</sup> /s)]
ST	supporting technology
STA	1. Science and Technology Alliance (program) (DOE) 2. shift technical advisor 3. Services des Techniques Advances (France)
STAC	Science and Technology Advisory Council (State of Tennessee)
STACCS	Standard Tactical Army Command and Control System
STAFS	Standard Automated Financial System
STAPPA	State and Territorial Air Pollution Program Administrators
STAR	Summer Teachers As Resources (program)
START	Strategic Arms Reduction Treaty
statV	statvolt [convert to SI: volt (V)]
STC	1. scientific and technical computing 2. self-tuning controller 3. site telecommunications coordinator 4. site training contact 5. Society for Technical Communication
STC/ETC	Society for Technical Communication/East Tennessee Chapter
STCAC	Society for Technical Communication Annual Conference
std	standard
STD	Subcontract Technical Directive
STE	Spherical Torus Experiment
STEL	short-term exposure limit (MSDS)
STEM	scanning transmission electron microscope/microscopy
STEPS	superconducting technology for electric power systems
STES	Solar Total Energy Systems
STF	1. safety test facility 2. source, transport, and fate (research)
STGWG	State and Tribal Government Working Group
STI	1. Scientific and Technical Information 2. Standard Technology, Inc. 3. Steel Tank Institute
STIFS	Short-Term Integrated Forecasting System
STIG	steam-injected gas turbine
STIK	State Technical Institute at Knoxville
STIP	Scientific and Technical Information Program (DOE)
STM	scanning-tunneling microscopy
STN	Scientific and Technical Information Network
STO	shift technical operator
STORET	water storage and retrieval system (EPA)
STOP	Supporters to Oppose Pollution
STP	1. sewage treatment plant 2. smart test panel 3. standard temperature and pressure (see NTP) 4. Subsurface Transport Program (DOE-OHER)
STPI	self-tuning proportional-integral
STR	standard thermal reactor
STRADS	Strategic Deployment System
STRIVE	Science Teachers Research Involvement for Vital Education (now TRAP)
STRN	Standard Technical Report Number
STRP	Summer Teacher Research Program



STS	1. standard threshold shift 2. stockpile-to-target sequence
STU	secure telephone unit
STV	Space Transfer Vehicle
STX	Spherical Torus Experiment
SU	storage unit (data processing)
SUAD-RT	Shipboard Uniform Automated Data Processing System-Real Time
SUBWOG	Subcommittee of JOWOG (Joint Working Group)
SUIT	State Unemployment Insurance Tax
SUNY	State University of New York
SUP	soluble unreactive phosphorus
sup	1. superior (math) 2. supremum (math)
SUPO	Los Alamos (super power) Boiling Water Reactor
Suppl(s).	Supplement(s) [use when followed by number(s) in citations; spell out at beginning of sentence]
SURA	1. Southeastern Universities Research Association 2. Southern Universities Research Association
SURnet	Southeastern University Research Network
S <sub>ut</sub>	ultimate tensile strength
Sv	sievert
SV	sampling visit
SVB	signal validation block
SVD	singular value decomposition
SVEC	Space Vacuum Epitaxy Center
SVGA	super video graphics array
SVOC	semivolatile organic compound
SVP	single-value plot
SW	1. separative work 2. Southwestern Power Administration 3. standing wave 4. surface water
SWAC	Solid Waste Action Coalition
SWACOM	Standard Water Column Model
SWAT	solid waste assessment test
SWC	surge-withstand capability
SWCA	Soil and Water Conservation Act of 1977
SWDA	1. Safe Water Drinking Act 2. Solid Waste Disposal Act of 1965 (Amendments of 1980) 3. solid waste disposal area
SWE	Society of Women Engineers
SWECS	small wind energy conversion system
SWHISS	Surface Water Hydrologic Information Support System
SWIMS	Solid Waste Information Management System
SWMA	Solid Waste Management Act
SWMU	solid waste management unit
SWO	Solid Waste Operations
SWOAPCA	Southwestern Ohio Air Pollution Control Agency
SWOT	strength, weakness, opportunity, and threat
SWP	Safety Work Permit
SWRB	stormwater retention basin
SWRT	1. Sanitary Waste Reduction Team (ORNL) 2. Solid Waste Recycling Team (Y-12)
SWS	Scientific Workstation Support
SWSA	solid waste storage area
SWTMS	Southwest Thermal Mass Study
SWTP	sanitary waste treatment plant
SWU	separative work unit (use same for plural)

SX	solvent extraction
SXR	Specification Exception Release
SY	Stanford Synchrotron Radiation Laboratory
sym	symmetrical
SYSRAP	System Reconfiguration and Analysis Program (developed by ORNL for AACE)
SZ(g)	Suzuki group (math)
$\sigma$	standard deviation (also $S$ , $SD$ , or $S_s$ )
$\sigma_g$	geometric standard deviation
$\Sigma$	summation

# T

t	1. metric ton (or tonne) (spell out both words to avoid confusion with "short ton" (see T))
T	2. tritium (also T, $^3\text{H}$ , $\text{H}^3$ , or $\text{H}_3$ )
	1. temperature
	2. tesla
	3. short ton (2000 lb) [spell out both words to avoid confusion with "metric ton"; convert to SI: megagram (Mg)]
	4. tritium (also t, $^3\text{H}$ , $\text{H}^3$ , or $\text{H}_3$ )
T/A	timely and appropriate
T/C	transmission/compressor
T/R	1. transmit/receive
	2. transmitter/receiver
T&A	time and attendance (card or unit)
T&D	transmission and distribution
T&DD	Training and Development Department
T(E)	temperature of environment
T(P)	temperature of process
$T_{1/2}$	half-life
$\text{T}^3\text{C}$	Tennessee Transportation Technology Coalition (also TTTC)
Ta	tantalum (element, $Z = 73$ )
TA	1. technical assistant
	2. temperature amplifier
	3. travel authorization
TA&RM	Technology Applications and Resource Management
TAA	Taiwanese American Association
TAAG	Technical Assistance and Advisory Group (TMI-2 Recovery)
TAB	1. technology applications bulletin
	2. Tennessee Association of Business
TAC	1. tactical
	2. Tactical Air Command
	3. Technical Advisory Committee
TACAMO	take charge and move out (U.S. Army)
TACAN	tactical air navigation
TACOM	Tank Automotive Command (U.S. Army)
TACSAT	tactical satellite (U.S. Army)
TACT	Technology Area Coordinating Team
TAD	1. Task Authorization Directive
	2. Tax Administration Department
	3. Technology Assessment Division (DOE)
TADP	Technology Assessment and Development Plan
TAEDP	Total Army Equipment Distribution Plan
TAEDP MOD	Total Army Equipment Distribution Plan Modernization
TAG	1. technical advisory group
	2. technical assistance grant
TAGR	Transportation Assessment and Guidance Report
TAHP	thermally activated heat pump
TAL	Target Analyte List
TAlk	total alkalinity
TAMVEC	Texas A&M Variable Energy Cyclotron
tan	tangent (trigonometric function)
TAN	Test Area North
tanh	hyperbolic tangent (hyperbolic function)

TAP	thermosiphon air panel
TAPA	Total Army Personnel Agency (formerly CIVPERCEN)
TAPCD	Tennessee Air Pollution Control Division
TAPPI	Technical Association of the Pulp and Paper Industry
TARA	test area for remedial action
TARC	transportation accident resistant container
TAS	<i>Technical Architecture Specification (C&amp;TS)</i>
TAS	1. triple-axis spectrometer 2. Towed Array Sonar
TASD	Technical Assessment and Systems Development
TASF	TSCA Ash Storage Facility
TASP	Technical Assessment Selection Panel
TASS	Technology and Social Systems
TASTEX	Tokai Advanced Safeguards Technology Exercise
TAT	1. Technical Assistance Team 2. training and technology
TAV	Transatmospheric Vehicle
TAW	Tactical Aircraft Wing
Tb	terbium (element, Z = 65)
TB	tight binding
TBAH	tetrabutylammonium hydroxide
TBD	1. to be determined 2. to be done
TBF	time between failures
TBIF	Triple Beam Irradiation Facility
TBP	1. tributyl phosphate 2. tri- <i>n</i> -butyl phosphate
TBR	thorium breeder reactor
T <sub>c</sub>	1. critical temperature 2. Curie temperature 3. transition temperature
Tc	technetium (element, Z = 43)
TC	1. temperature coefficient 2. thermocouple 3. total cost 4. toxicity characteristic 5. training coordinator
TCA	1. Tennessee Code Annotated 2. trichloroacetic acid 3. Turbulent Contact Absorber
TCCG	Technical Code Coordinating Group
TCDD	tetrachlorodibenzo-p-dioxin
TCE	trichloroethylene
TCEA	Tennessee Cooperative Education Association
TCF	1. transmission capacity factor 2. trillion cubic feet [convert to SI: trillion cubic meters (m <sup>3</sup> × 10 <sup>12</sup> ), which is preferred over liter; see restrictions listed under "L" for "liter"]
TCG	temperature coefficient of (gage factor) sensitivity
TCI	1. Technology Commercialization Initiative (DOE Defense Programs Branch) 2. temperature coefficient of internal to source current
TCL	Target Compound List
TCLP	1. Toxicity Characteristic Leaching Procedure (EPA) 2. Toxic Chemical Leaching Procedure
TCMP	1. Toxicity Control and Monitoring Program 2. Toxicity Control Monitoring Plan
TCP/IP	Transmission Control Protocol/Internet Protocol [computer term (Ethernet™)]
TCPA	Tennessee College Placement Association

TCR	temperature coefficient of resistance
TCRA	time-critical removal action
TCRD	Tennessee Center for Research and Development
TCSUH	Texas Center for Superconductivity, University of Houston
TCV	temperature coefficient of voltage
TD	theoretical density
TD&D	Training and Development Department (ORNL)
TDA	Titanium Development Association
TDAG	Training Development and Administrative Guide
TDAPC	Tennessee Department of Air Pollution Control
TDB	Toxicology Data Bank
TDC	Tennessee Department of Conservation
TDD	Telephone Device for the Deaf
TDE	1. total dose equivalent 2. two-dimensional editing
TDEC	Tennessee Department of Environment and Conservation (formerly TDHE)
TDH	Tennessee Department of Health
TDHE	Tennessee Department of Health and Environment (now TDEC)
TDHF	time-dependent Hartree-Fock
TDL	top-down logic diagram
TDL	top-down logic model
TDOT	Tennessee Department of Transportation
TDP	1. Tactical Defense Plan 2. Technical Data Package 3. technology development plan
TDR	time-domain reflectometry
TDS	total dissolved solids
TDY	temporary duty
TDYD	Tennessee Department of Youth Development
Te	tellurium (element, $Z = 52$ )
TE	1. temperature element 2. thermoelectric 3. tissue equivalent
TEAD	Tooele Army Depot
TEAM	Technology Base Enhancement for Autonomous Machines
TEC	1. Technology for Energy Corporation 2. total estimated cost 3. Transportation Energy Conservation
TECH	Tennessee Energy Conservation in Housing
Tech Ops	Technical Operations (Energy Systems)
TEDE	total effective dose equivalent
TEFRA	Tax Equity and Fiscal Responsibility Act of 1982
TEG	1. Transportation Energy Group 2. technical evaluation group
TEGD	1. Technical Enforcement Guidance Document 2. tetraethyleneglycol dimethyl ether
TEHM	Terrestrial Ecosystem Hydrology Model
TEHP	tri(2-ethylhexal) phosphate
TEI	total economic impact
TEIDMS	thermal emissions isotope dilution mass spectrometry
TEL	tetraethyl lead
TELEX	teletypewriter exchange service
TEM	transmission electron microscopy
TEMA	Tennessee Emergency Management Agency
temp	temperature
TEMPEST	Study of Compromising Emanations

Tenn.	Tennessee (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Memphis)
TEP	Technical Evaluation Program
TERC	Tennessee Emergency Response Center
TES	thermal energy storage
TESS	1. Toll Enriching Services System 2. TRW Environmental Safety Systems 3. TRW Environmental Support Systems
Tex.	Texas (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Dallas or Houston)
TEXT	Texas Experimental Tokamak
TEXTOR	Tokamak Experiment for Technical Oriented Research
TF	1. task force 2. technical fix 3. toroidal field
TFCX	Toroidal Fusion Core Experiment
TFE	tetrafluoroethylene
TFIS	1. Techfinancial Information System 2. Technical Financial Information System
TFMMS	Total Force Manpower Management System
TFR	trifluoroethanol
TFTR	Tokamak/Toroidal Fusion Test Reactor (Princeton, N.J.)
TFW	tactical fighter wing (USAF)
TFWE	Task Force on Wood Energy
TGA	1. thermogravimetric analysis 2. thermogravimetric apparatus
TGBL	through government bill of lading
TGF	Transportable Grout Facility
TGI	temperature growth index
TGOE	Task Group on Excellence
TGT	thermal gradient tube
Th	thorium (element, $Z = 90$ )
THC	total hydrocarbons
THM	trihalomethane
ThO <sub>2</sub>	thorium oxide
THORP	Thermal Oxide Reprocessing Plant (BNF)
THORS	Thermal Hydraulic Out-of-Reactor Safety
THP	Tennessee Highway Patrol
THQ	thermal-hydraulic quenchback
THSA	Tennessee Health Studies Agreement
THTF	Thermal Hydraulic Test Facility
THTL	thermal-hydraulic test loop
THWMA	Tennessee Hazardous Waste Management Act
THWRA	Tennessee Hazardous Waste Reduction Act
Ti	titanium (element, $Z = 22$ )
TI	Transportation Index
TIA	Tennessee Inventors Association
TIC	1. Technical Information Center (now OSTI) 2. Tennessee Innovation Center 3. testing, installation, and commissioning 4. thermally insulated current 5. total inorganic carbon
TID	1. tamper-indicating device 2. Technical Information Division (OSTI) 3. total integrated dose
TIE	technical information exchange

TIF	Triple Ion Radiation Facility (ORNL)
TIG	tungsten inert gas (welding)
TIGA	Texas Instrument Graphic Architecture
TIL	Tennessee Indian League
TIMA	Thermal Insulation Manufacturers' Association
TIMS	The Institute for Management Science
TiN	titanium nitride
TIN	Technical Improvement Notice [program (I&C Division)]
TIO	1. Technical Information Office (Y-12 Plant) 2. technical information officer 3. Technology Innovation Office
TIP	1. Technology Integration Program 2. Technology Internship Program 3. Toxicology Information Program 4. traveling in-core probe
TIR	2. terminal imaging radar 2. total indicator reading
TIRC	Toxicology Information Response Center
TIS	1. Technical Information Services 2. Travel Information System
TISAB	total ionic strength adjustment buffer (analytical method)
TIUS	Truck Inventory and Use Survey
TJ	terajoule
TK nitrogen	total kjeldahl nitrogen
Tl	thallium (element, Z = 81)
TL	task leader
TLA	three-letter acronym
TLD	1. thermoluminescence dosimeter 2. thermoluminescence dosimetry
Tloc	Total Local Expenditures
TLPR	Terrestrial Low-Power Reactor
TLS	trip logic system
TLU	trip logic unit
TLV	threshold limit value
Tm	thulium (element, Z = 69)
TM	1. Technical Memorandum 2. total mercury
™	trademark
TMACS	International Mathematics and Computer Simulations
TMAP	Teleoperated Mobile Armor Penetrator
TMD	1. Training Management Department 2. Transportation Management Division (DOE)
TMF	Transgenic Mouse Facility
TMI	Three Mile Island
TMI-1	Three Mile Island, Unit 1
TMI-2	Three Mile Island, Unit 2
TMIS	Training Management Information System
TML	Titanium Metallurgical Laboratory (BMI)
TMS	1. tandem mass spectrometry 2. Task Management System 3. The Metallurgical Society, Inc. 4. tool-made sample 5. Training Management System (formerly ATS) 6. Trash Monitor Station
TMSDC	Thermomechanical Model Software Development Center (TCRD)
TMY	typical meteorological year
TN	Tennessee (use only with ZIP code addresses)

TNA	1. thermal neutron analysis 2. Transient Network Analyzer
TNHWMR	Tennessee Hazardous Waste Management Regulations
TNS	Telephone Network Services (Department)
TNT	trinitrotoluene
TOA	Tennessee/U.S. Department of Energy Oversight Agreement
TO	Transition Operations
TOC	<i>The Office Connection</i>
TOC	total organic carbon
TOD	1. Technical Operations Division (PORTS) 2. time of day
TOF	time-of-flight (measurement)
TOFACS	Technical Office Automation and Communications System
TOFAP	time-of-flight atom probe
TOGA	tropical oceans and global atmosphere (NOAA)
TON	total organic nitrogen
TOP	typical operating procedure
TOPO	Transportation Operations Project Office
TOPS	Transportation Operational Personal Property Standard System
TORDAC	Torpedo Data Acquisition System
TORP	Transportation Operations Research and Planning (Group of TSRS)
torr	[do not abbreviate this word; convert to SI: pascal (Pa)]
TOS	teleoperator system
TOSHA	Tennessee Occupational Safety and Health Administration
TOT	time of travel
TOU	time of use
TOV	teleoperated vehicle
TOW	tube-launched, optically tracked, wire-guided (missile system)
TOX	total organic halides
TP	test point
TPA	thermal performance advisor
TPAP	Training Program Accreditation Plan/Program
TPB	tetraphenylboron
TPC	total project cost
tpd	tons per day ["tons/d" is preferred; convert to SI: kilograms per day (kg/d) or kilograms per second (kg/s)]
TPD	Technical Publications Department (now Publications Division)
TPI	tritium pellet injector
TPM	technical program manager
TPMT	Technical Program Management Team
TPO	1. technical program officer 2. Transportation Program Office
TPOP	Tritium Proof-of-Principle (pellet injector test)
TPP	1. texturized plant protein (see HP and HPP) 2. Transuranium Processing Plant (formerly TRU) (ORNL)
TPPA	Tennessee Valley Public Power Authority
TPQ	1. threshold planning quality 2. threshold planning quantity
TPR	Technical Progress Report
TPX	Tokamak Physics Experiment
TQM	total quality management
TQMP	Total Quality Management Program
tr	trace (math)
TR	1. technology release 2. transfer of responsibility
tr(s).	translator(s) (use in citations)
TR&T	Technical Resources and Training (ORNL)



TRA	1. Teacher Research Associates (program)
	2. test reactor area
TRADE	Training Resources and Data Exchange (ORAU/DOE)
TRADOC	Training and Doctrine Command
TRANSCOM	U.S. Transportation Command
TRAP	1. Teachers Research Associates Program (formerly STRIVE)
	2. Training Program Accreditation Plan
TRB	1. Transportation Research Board (National Research Council)
	2. truss radiant barrier
TRC	1. Technical Review Committee
	2. time-reliability correlation
	3. total residual chlorine
TRD	technology release document
TRE	toxicity reduction evaluation
TREAT	transient reactor test facility
TRECS-I	Transportable Reflective-Environment Communications System, Version I
TRENDS	Transport and Release of Nuclides in Dominant Sequences
TRF	Tritium Removal Facility
TRG	Training Review Group
TRI	1. TeleRobotics International, Inc.
	2. Toxic Release Inventory
TRL	Transuranium Research Laboratory
TRM	trial-run model
TRMS	Training Records Management System
TRP	1. Technology Reinvestment Project
	2. Tokai Reprocessing Plant (PNC, Japan)
TRR	technical review report
TRS	1. Training Records System (replaced by TMS)
	2. Transactional Reporting Service
TRT	1. tactical response team
	2. Technical Resources and Training
	3. technical review team
TRTF	TeleRobotics Task Force
TRU	1. telemetry receiver unit
	2. transuranic
	3. Transuranic Waste Program
	4. Transuranium Processing Facility (now TPP)
TRU/FE	telemetry receiver unit front end
TRUEX	transuranic extraction
TRUPACT-I	transuranic package transporter
TRUST	Thorium Reactor Uranium Storage Tank
TRV	1. thermal relief valve
	2. thermal relief valve (event)
TRY	test reference year
TS	1. technical specifications
	2. Top Secret (classification)
	3. Transportation Safety
TSA	1. Technical Safety Appraisal
	2. technical security audit
TSBA	Tennessee Small Business Administration
TSC	1. Technical Support Center
	2. Tokamak Simulation Code
	3. Transportation Safety Committee
TSCA	Toxic Substances Control Act of 1976 (40 CFR, Pts. 700-799)
TSCAI	Toxic Substances Control Act Incinerator (K-25 Site)
TSCAIO	Toxic Substances Control Act Incinerator Operations (K-25 Site)
TSCAIOD	Toxic Substances Control Act Incinerator Operations Division (K-25 Site)

TSCG	Technical Security Countermeasures Group
TSCM	technical surveillance countermeasure
TSD	<ol style="list-style-type: none"> <li>1. Technical Services Division</li> <li>2. Technical Support Department (formerly MMD) (I&amp;C Division)</li> <li>3. technical support document</li> <li>4. Tennessee School for the Deaf</li> <li>5. Transportation Safeguards Division</li> <li>6. transportation, storage, and disposal</li> <li>7. treatment/storage/disposal</li> <li>8. treatment, storage, and disposal (facilities)</li> </ol>
TSDF	hazardous waste treatment, storage, and disposal facility
TSDR	treatment, storage, disposal, and recycle
TSE	technical surveillance equipment
TSEE	Telerobotic Small Emplacement Excavator (RPSD)
TSET	telescopic sequential entry type
TSF	Tower Shielding Facility
TSFRD	Top Secret Formerly Restricted Data
TSI	<ol style="list-style-type: none"> <li>1. Technical Site Information (document)</li> <li>2. Training Systems, Inc.</li> </ol>
TSNSI	Top Secret National Security Information
TSNT	steady-state neutron tokamak
TSO	timesharing system option
TSP	<ol style="list-style-type: none"> <li>1. Technical Standards Program (DOE)</li> <li>2. total soluble phosphorus</li> <li>3. total suspended particles/particulates</li> <li>4. Transportation Systems Program (ORNL)</li> </ol>
TSPE	Tennessee Society of Professional Engineers
TSPE-OR	Tennessee Society of Professional Engineers-Oak Ridge Chapter
TSPP	<i>Technical Standards Program Procedures</i> (manual, DOE)
TSR	<ol style="list-style-type: none"> <li>1. Technical Safety Requirements</li> <li>2. terminate and stay resident (program) (computer term)</li> <li>3. Tower Shielding Reactor</li> </ol>
TSR-II	Tower Shielding Reactor-II
TSRD	Top Secret Restricted Data
TSRS	Transportation and Systems Research Section (of Energy Division)
TSS	<ol style="list-style-type: none"> <li>1. Technical Support Section (CTD)</li> <li>2. Telerobotic Systems Section</li> <li>3. total suspended solids</li> </ol>
TSSAS	task space scene analysis system
TSSP	Transportation System Studies Plan
TST	<ol style="list-style-type: none"> <li>1. technical support team</li> <li>2. transportation safety training</li> <li>3. "Triple-S Tokamak" (Small Steady-State Tokamak)</li> </ol>
TSTA	<ol style="list-style-type: none"> <li>1. Tennessee Science Teachers Association</li> <li>2. Tritium Systems Test Assembly</li> </ol>
TSU	Tennessee State University (Nashville)
TT	<ol style="list-style-type: none"> <li>1. technology transfer</li> <li>2. Tiger Team</li> </ol>
TTA	Tiger Team assessment
TTAR	Tiger Team Assessment Report
TTC	Transportation Technology Center (SNL)
TTD	terminal temperature difference
TTF	<ol style="list-style-type: none"> <li>1. Tennessee Technology Foundation</li> <li>2. Transport Task Force</li> </ol>
TTI	Tokamak Transport Initiative
TTL	transistor-transistor logic
TTMP	transit-time magnetic pumping

TTO	1. Technology Transfer Office 2. total toxic organic (compounds) 3. Transient Tracers in the Ocean
TTP	1. Technical Task Plan 2. Technology Transfer Program (Energy Systems)
TTR	1. Thermal Test Reactor (Knolls) 2. Tonopah Test Range
TTS	Transportation Technology Study
TTTC	Tennessee Transportation Technology Coalition (also T <sup>3</sup> C)
TTU	Tennessee Technological University
TTY	Bell System Teletypewriter Service
TU/C	Technology Utilization/Commercialization Office
TUF	Technology Utilization Foundation
TUFCDF	Thorium-Uranium Fuel Cycle Development Facility
TUH	Technical University of Hannover
TURF	1. Thorium-Uranium Recycle Facility (ORNL) 2. Transuranium Research Facility
TV	throttle valve
TV&A	Terrain Visual Analysis (U.S. Army)
TVA	Tennessee Valley Authority
TVF	Tokai Vitrification Facility (TRP of PNC, Japan)
TVL	threshold limit value (MSDS)
TVPPA	Tennessee Valley Public Power Association
TW/AA	Tactical Warning/Attack Assessment
TWA	time-weighted average
TWAF	Transuranic Waste Assay Facility
TWC	1. Tennessee Wesleyan College 2. through-the-wall crack
TWF	Transuranic Waste Facility
TWRA	Tennessee Wildlife Resources Agency
TWRF	Transported Waste Receiving Facility
TWRMS	tank waste retrieval manipulator system
TWSO	Transuranic Waste Systems Office
TWT	traveling-wave tube
TWTSF	Transuranic Waste Treatment and Storage Facility
TWX	teletypewriter exchange
TX	Texas (use only with ZIP code addresses)
TZP	tetragonal zirconia

U	1. unable to rate with sources used (insufficient data available to determine hazard rating (MSDS)) 2. Unclassified (classification) 3. uranium (element, Z = 92)
U.K.	United Kingdom (preferred over "UK"; use as adjective only; spell out as noun)
U.S.	United States (of America) (use as adjective only; spell out as noun)
U.S.C.	<i>United States Code</i>
U.S.S.R.	Union of Soviet Socialist Republics (preferred over "USSR"; use as adjective only; spell out as noun)
U-AVLIS	Uranium Atomic Vapor Laser Isotope Separation
u-f	urea-formaldehyde (insulation)
U/A	understanding and acceptance
U <sub>3</sub> O <sub>8</sub>	uranyl uranate (yellowcake)
U <sub>3</sub> Si <sub>2</sub>	uranium silicate composite
UAC	User Advisory Committee (OLC)
UAPA	Uniform Administrative Procedures Act
UART	universal asynchronous receiver-transmitter
UAS	Uniform Accounting System
UBC	uniform building code
UBN	unclassified broadband network
UC	Unclassified Category
UCA	utility communications architecture
UCAMS	Unclassified Computer Account Management System
UCG	underground coal gasification
UCHA	uncontrolled core heatup accident
UCI	University of California at Irvine
UCI	uranium chloride
UCL	upper control limit
UCl <sub>4</sub>	uranium tetrachloride
UCl <sub>5</sub>	uranium pentachloride
UCl <sub>6</sub>	uranium hexachloride
UCN	1. ultracold neutron 2. Universal Control Number
UCNI	Unclassified Controlled Nuclear Information
UCOF	Uranium Chip Oxidation Facility
UCRG	Uniform Contractor Reporting Guidelines
UCRL	1. University of California Radiation Laboratory 2. University of California Research Laboratory
UCV	Unmanned Cargo Vehicle
UDAG	Urban Development Action Grant
UDH	Utah Department of Health
UDIN	Unite de Dismantlement des Installations Nucleaires (France)
UDS	Uranium Demonstration System
UE	1. uranium enrichment 2. Uranium Enrichment Organization (Energy Systems)
UEA	1. Uranium Enrichment Administration 2. Uranium Enrichment Associates
UEA-AEP	Uranium Enrichment Associates, Alabama Enrichment Plant
UEBU	Uranium Enrichment Business Unit
UEC	Uranium Enrichment Corporation
UEL	upper explosive limit

UEP	1. unaccompanied enlisted personnel
UEPH	2. University and Educational Programs Office
UEPIP	unaccompanied enlisted personnel housing
UESA	Uranium Enrichment Performance Improvement Program
UF	uranium enrichment services activity
UF <sub>4</sub>	University of Florida
UF <sub>6</sub>	uranium tetrafluoride (green salt)
UFAS	uranium hexafluoride
UFMBC	Uniform Federal Accessibility Standards
UGS	unity-feedback model-based compensator
UGV	upper guide structure
uhf	Unmanned Ground Vehicle
UHI	ultrahigh frequency
UHSFC	upper head injection
UHV	ultrahigh-sensitivity fission counter
UHVAC	ultrahigh voltage
UI	ultrahigh-voltage alternating current
UIC	united inch
	1. Underground Injection Control (program) (TDHE regulations)
	2. Unit Identification Code
	3. user identification code
UID	user identification
UIL	user interface language
UK	United Kingdom ("U.K." is preferred; use as adjective only; spell out as noun)
UKAEA	United Kingdom Atomic Energy Authority
UL	Underwriters' Laboratories, Inc.
ULCP	University/Laboratory Cooperative Program
UMB	upper memory block
UMD	Unit Movement Data
UMDA	Umatilla Depot Activity
UMRUG	Utility/Manufacturer Robot User Group
UMS	Utilities Management System
UMT	uranium mill tailings
UMTRA	Uranium Mill Tailings Remedial Action
UMTRAP	Uranium Mill Tailings Remedial Action Program/Project
UMTRCA	Uranium Mill Tailings Radiation Control Act of 1978
UN	United Nations
UNAM	Universidad Nacional Autónoma de México (National Autonomous University of Mexico)
UNC	1. unified coarse thread (bolts, screws)
	2. United Nuclear Corporation
UNDP	United Nations Development Program (Programme)
UNEP	United Nations Environmental Program (Programme)
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNH	uranyl nitrate hexahydrate solution
UNICOR	Federal Prison Industries
UNISOR	Oak Ridge University Isotope Separation
UNIVAC	Universal Automatic Computer
UNPS	underground nuclear power station
UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation
UNSR	unclassified national security related
UNT	Undergraduate Navigator Training (USAF)
UNTG	Utility Nuclear Transportation Group
UO	1. unit operator
	2. Unusual Occurrence
UO <sub>2</sub>	uranium dioxide (brown oxide)
UO <sub>3</sub>	uranium trioxide (orange oxide)
UO <sub>2</sub> (NO <sub>3</sub> ) <sub>2</sub>	uranyl nitrate

UOP	unaccompanied officer personnel
UOPH	unaccompanied officer personnel housing
UOR	unusual occurrence report
UO <sub>x</sub>	uranium oxide(s)
UP	uranium production
UPA	United Power Association
UPC	1. upper process cell 2. unit process controller
UPDF	Uranium Processing Demonstration Facility
UPE	User Portability Extension
UPGWA	United Plant Guard Workers of America
UPI	1. United Press International 2. upper plenum injection
UPR	University of Puerto Rico
UPS	1. uninterruptible power supply 2. United Parcel Service
UPTF	Upper Plenum Test Facility (Germany)
UPW	uniform present worth
UR	Unite Robotique (France)
URC	universal RADIAC chip
URD	1. underground residential distribution 2. Uniform Request for Disposal (WMO)
Urenco	European Gas Centrifuge Uranium Enrichment Consortium
URLB	Uranium Recovery Licensing Branch (DWM/DOE)
US-IGBP	U.S. Geosphere/Biosphere Program (see SCOPE)
USACE	U.S. Army Corps of Engineers
USAD	Utility Service Area Disaggregation (forecasting model)
USAEHSC	U.S. Army Engineering and Housing Support Center
USAF	U.S. Air Force
USAFESA	U.S. Army Facilities Engineering Support Agency
USAID	U.S. Agency for International Development
USAP	U.S. Antarctic Program
USAREUR	U.S. Army, Europe
USASDC	U.S. Army Strategic Defense Command
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
USAWC	U.S. Army War College
USBC	U.S. Bureau of the Census (DOC)
USBLM	U.S. Bureau of Land Management (DOI)
USBM	U.S. Bureau of Mines (DOI) (also BOM and BuMines)
USBMG	U.S. Bureau of Mines and Geology (DOI)
USBR	U.S. Bureau of Reclamation (DOI)
USC	1. University of South Carolina 2. University of Southern California 3. University of Southern Carolina 4. User Service Center 5. User Services Consulting 6. utility services contract
USCAR	U.S. Council for Automotive Research
USCEA	U.S. Council for Energy Awareness
USCG	U.S. Coast Guard
USD	Unified School District
USDA	U.S. Department of Agriculture
USDOE	U.S. Department of Energy (also DOE)
USDOI	U.S. Department of the Interior (also DOI)
USDW	1. underground source of drinking water 2. usable supply of drinking water
USEC	United States Enrichment Corporation
USEP	University and Science Education Programs

USEPA	U.S. Environmental Protection Agency ("EPA" is preferred)
USEUCOM	U.S. European Command
USFS	U.S. Forest Service (USDA)
USFWS	U.S. Fish and Wildlife Service
USGS	1. U.S. Geological Service 2. U.S. Geological Survey
USI	unresolved safety issue
USLE	universal soil loss equation
USMC	U.S. Marine Corps
USN	U.S. Navy
USNRC	U.S. Nuclear Regulatory Commission
USPCI	U.S. Pollution Control, Inc.
USPS	U.S. Postal Service
USQ	unreviewed safety question
USQD	Unreviewed Safety Question Determination
USR	Utilities System Restoration
USRAD	Ultrasonic Ranging and Data (ORNL)
USRADS	Ultrasonic Ranging and Data System (ORNL)
USS	utility shift supervisor
USSC	United States Steel Corporation
USSR	Union of Soviet Socialist Republics ("U.S.S.R." is preferred; use as adjective only; spell out as noun)
UST	underground storage tank
USTS	underground storage tank system
USTRANSCOM	U.S. Transportation Command (DOD)
USU	utility system uprating
USW	unit of separative work ("SWU" is preferred)
UT	1. The University of Tennessee 2. umbilical tower (space program term) 3. Utah (use only with ZIP code addresses)
UT-ORGSBMS	University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences
UT-TAE	The University of Tennessee Technological and Adult Education
Utah	(spell out unless used with ZIP code addresses; state name is not needed with Salt Lake City)
UTCS	Urban Traffic Control System
UTGS BS	The University of Tennessee Graduate School of Biomedical Sciences
UTK	The University of Tennessee at Knoxville
UTM	1. Unified Transport Model 2. Universal Transverse Mercator
UTOS	United Technologies Optical Systems
UTP	unshielded twisted pair (wire)
UTSG	U-tube steam generator
UTSI	The University of Tennessee Space Institute
UTTR	Utah Test and Training Range (USAF)
UU	ultimate user
uv	ultraviolet (preferred over "UV")
UV	ultraviolet ("uv" is preferred)
uv-B	ultraviolet-B
UVP	Ultraviolet Products, Inc.
UVT	Universal Venturi Tube
UVTA	undervoltage trip attachment
UW	1. United Way 2. University of Wisconsin
UWRL	Utah Water Research Laboratory (Utah State University, Logan)

v	velocity
V	1. vanadium (element, $Z = 23$ ) 2. volt
V.I.	Virgin Islands (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
V · A	volt-ampere
V · C	volt-coulomb
V-I	voltage-current
v/c	volume to capacity
V/m	volts per meter
V&R	vulnerability and risk
V&V	verification and validation
V <sub>2</sub> O <sub>5</sub>	vanadium oxide
VA	1. Virginia (use only with ZIP code addresses) 2. vulnerability analysis 3. vulnerability assessment (see VAR)
Va.	Virginia (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
V <sub>ac</sub>	alternating current volt (also Vac and VAC)
Vac	alternating current volt (also V <sub>ac</sub> and VAC)
VAC	alternating current volt (also V <sub>ac</sub> and Vac)
VACP	vital ac power
VAMA	Valley Alliance for Minority Achievement (Energy Systems, ORAU, and DOE-OR)
VAMP	validation of assessment model prediction
VAMPS	Video and Motion Picture Services
var	1. variance (math) 2. voltage and reactive power (volt-ampere reactive)
VAR	vulnerability assessment report (see third entry under VA)
VAV	variable air volume
VAWT	vertical-axis wind turbine
VAX	computing system made by Digital Equipment Corporation (DEC)
VC	1. Values Council (Energy Systems) 2. vinylchloride
VC7002	Vehicle and Equipment Cleaning Facility
VCAPCD	Ventura County Air Pollution Control District
VCC	Video Conference Center (OTT)
VCN	very cold neutron
VCO	voltage-controlled oscillator
VCR	video cassette recorder
VCS	virtual circuit server (computer term)
VCT	volume control tank
V <sub>dc</sub>	direct current volt (also Vdc and VDC)
Vdc	direct current volt (also V <sub>dc</sub> and VDC)
VDC	1. direct current volt (also V <sub>dc</sub> and Vdc) 2. vertical drift chamber
vdf	video frequency
VDI	Virtual Device Interface
VDRIF	Variable Dose Rate Irradiation Facility
VDS	Visiting Distinguished Scientist
VDT	video display terminal
VDU	video display unit (same as CRT)



VE	value engineering
VEI	Volcano Explosivity Index
VEM	Varying Elasticity Model
VMF	Vehicle and Equipment Maintenance Facility
VEMPS-II	vertically polarized electromagnetic pulse simulator
VEP	Value Engineering Program (Central Engineering Services)
VEPCO	Virginia Electric Power Company
vers	versed sine (trigonometric function)
VESA	Video Electronics Standards Association
VEU	(do not use; use VHE instead)
VF	1. vertical field 2. vitrification facility
VFMF	variable-frequency microwave furnace
VFR	visual flight rules
VGA	1. video graphics adapter 2. video graphics array
VHAP	volatile hazardous air pollutant
VHE	very highly enriched
VHEU	(do not use; use VHE instead)
vhf	very high frequency
VHLL	very high level language
VHS	vertical-horizontal spread
VHSA	variable hydrologic source areas
VI	1. vertical irradiated fuel 2. Virgin Islands (use only with ZIP code addresses)
vib	vibration
VIFRED™	Visual Forms Editor
VIOP	very intelligent input/output processor
VISC	scientific visualization
ViSCLab	Visualization in Scientific Computing Lab (now VizLab) (C&TS)
VISITS	Very Important Small Institution Travel Support
VITA	Volunteers in Technical Assistance
VITEX	volume ionization transverse extraction
VizLab	Visualization in Scientific Computing Lab (formerly ViSCLab) (C&TS)
VLE	vapor-liquid equilibrium
vlf	very low frequency
VLS	Vertical Launching System
VLSI	very large scale integration/integrated (circuit)
VLUT	vertical look-up table
V <sub>m</sub>	voltmeter
VME	1. VersaModule European 2. Volunteers for Medical Engineering, Inc.
VMOS	vertical metal-oxide semiconductor
VMS	virtual memory system
VMT	vehicle miles traveled
V <sub>oc</sub>	open-circuit voltage
VOC	1. volatile organic carbon 2. volatile organic chemical 3. volatile organic compound
VOG	1. vacuum off-gas 2. vessel off-gas
vol %	volume percent
Vol(s).	Volume(s) [use when followed by number(s) in citations]
VOST	volatile organic sampling train
VPD	vertically polarized dipole
VPI	Virginia Polytechnic Institute
VPIS	videodisk personnel identification system
V <sub>pp</sub>	volt peak to peak

VPP	Voluntary Protection Program
VRAM	video random access memory
VRIF	Voluntary Reduction in Force
VR	volume reduction
$V_{rms}$	volt root mean square
VRS	Voice Response Service (C&TS)
VRT	Vault Response Team
vs	versus
VSAM	Virtual Storage Access Method
VSAT	very small aperture transceiver
VSG	Video Service Group (Energy Systems)
VSI	voltage source inverter
VSP	1. vertical seismic profiling 2. Vision Services Plan
VSVI	very simple, very inexpensive
VSWR	voltage standing wave ratio
VSWT	variable-speed wind turbine
VT	Vermont (use only with ZIP code addresses)
Vt.	Vermont (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
VTC	videoteleconference
VTD	vibrating-tube densimeter
VTX	VideoTex (videotext)
VUD	visitor use-day
VUV	vacuum ultraviolet
VV	vacuum vessel
VVF	Varne Verks Foreningen (European piping design standards)
VW	Volkswagon
VWF	Variable Weir Feeder
VWS	1. VAX Workstation™ 2. Video Windowing System
VX	chemical nerve agent

# W

W	1. tungsten (element, Z = 74) [also wolfram (avoid)] 2. watt
W.Va.	West Virginia (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)
W · cm	watt centimeter
W · m	watt meter
W-AESD	Westinghouse-Advanced Energy Systems Division
W/sq	watts per square (resistance measure)
w/v %	weight-volume percent
WA	Washington (state) (use only with ZIP code addresses)
WAA	Work Authorization and Agreement
WAC	Waste Acceptance Criteria
WACCC	Waste Acceptance Criteria Certification Committee
WAD	Work Authorization Directive
WADC	Wright Air Development Center
WAFB	Westover Air Force Base
WAG	1. Waste Area Group 2. waste area grouping
WAN	wide-area network
WAND	wide-angle neutron diffractometer
WAO	wet-air oxidation
WAP	Weatherization Assistance Program (DOE)
WAPA	Western Area Power Administration (DOE)
WARD	Westinghouse Advanced Reactor Division
WAS	Work Authorization System
Wash.	Washington (state) (use after city names in references, lists, tables, footnotes, bibliographies and indexes; spell out in text; state name is not needed with Seattle)
WATtec	Welding and Testing Technology Exhibition and Conference
Wb	weber
WB	wet-bulb (temperature)
WBCL	Whole Body Counting Laboratory
WBCN	Wideband Communication Network
WBCV	West Bear Creek Valley
WBGT	wet-bulb globe thermometer
WBIS	Walker Branch Information System
WBS	work breakdown structure
WBW	Walker Branch Watershed
WC	1. waste control (pump pit) 2. water closet (term used by architects) 3. Workers' Compensation 4. worst case
WCC	Work Control Center
WCDB	Waste Characteristics Data Base
WCF	Waste Calcining Facility
WCGS	Wolf Creek Generating Station
WCIS	Web Currency Inspection System
WCM	waste curie monitor
WCP	Waste Certification Program
WCPF	Waste Coolant Processing Facility (Y-12 Plant)
WCR	West Chestnut Ridge
WD	waste disposal

WDC	World Data Center (ICSU) (see WDC-A and WDCS)
WDC-A	World Data Center-A (A = atmospheric trace gases) [U.S. arm of WDC (ICSU) and located at CDIAC of ESD, ORNL] (see WDC and WDCS)
WDCR	Weapon Design Cost Report
WDCS	World Data Center System (ICSU) (see WDC and WDC-A)
WDNR	Wisconsin Department of Natural Resources
WDPF	Westinghouse Distributed Processing Family
WE	weld embrittled
WEAF	Waste Examination and Assay Facility (ORNL)
WEC	1. winter energy consumption/cost 2. World Energy Conference
week	(do not abbreviate this word)
WEF	Water Environment Federation
WELD	Weldon Spring Site Office (DOE)
WEMCO	Westinghouse Environmental Management Company of Ohio
WERF	Waste Experimental Reduction Facility
WES	winter energy savings
WET	1. waste extraction test 2. whole effluent toxicity
WETC	Wind Energy Test Center (SERI)
WETF	West End Treatment Facility
WETYR	wet year; year in which insulation becomes wet
WF	Windsor Field Office (DOE)
WFIP	Women's Financial Information Program
WFO	work for others
WFOFAP	Work for Others Federal Agencies Program (DOE)
WFOPO	Work for Others Program Office
WFPM	Waste Facility Performance Model
WFRP	Work Force Restructuring Plan
WFS	winter fractional savings
WFW™	Windows for Wordgroups (trademark of Microsoft Corporation)
WG	Wage Grade (U.S. Army)
WGA	Western Governors' Association
WGTM	worm gear teeth meshing
Wh	watt-hour
WH	Westinghouse Electric Corporation
WHC	Westinghouse Hanford Company
WHEC	water heating energy consumption
WHGR	window heat gain retardant
WHIST-MOD	Worldwide Household Goods Information System for Transportation Modernization
WHITEX	Winter Haze Intensive Tracer Experiment
WHO	World Health Organization
WHPP	1. Waste Handling and Packaging Plant 2. Waste Handling Pilot Plant
WHS	Whittaker Health Services
WI	Wisconsin (use only with ZIP code addresses)
WIID	workspace intrusion inspection device
WIM	weigh-in-motion (system)
WIN	Waste Information Network
WINCO	Westinghouse Idaho Nuclear Company, Inc.
WIPP	Waste Isolation Pilot Plant/Project
WIRP	Watershed Integrated Research Program
Wis.	Wisconsin (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text; state name is not needed with Milwaukee)
WISE	Waste Information System Evaluation
WIST	Women in Science and Technology (Conference)

WIT	Waste Isolation Technology Group
WL	working level (a radiation standards unit of measurement for radon-222 exposure)
WLM	working level month
WM	1. waste management 2. West Milton Field Office (DOE)
WM&PPPD	Waste Minimization and Pollution Prevention Project Database
WMR&PPP	Waste Minimization/Reduction and Pollution Prevention Program
WMA	1. waste management area 2. Waste Minimization Award (DOE) 3. wildlife management area
WMAC	Waste Management Action Committee
WMCO	1. Waste Management Coordination Office 2. Westinghouse Materials Company of Ohio
WMD	Waste Management Division
WMDD	Waste Management and Decontamination and Decommissioning (Y-12)
WME	working-memory element
WMEI	Waste Management Education Initiative
WMin	waste minimization
WMIS	Waste Management Information System
WMM	weapon material management
WMO	1. Waste Management Operations 2. World Meteorological Organization
WMOC	Waste Management Operations Center
WMOG	Waste Management Operations Group
WMOP	Waste Management Operations Program (ORNL)
WMP	1. waste management plan 2. Waste Management Program
WMR&D	Waste Management Research and Development (programs)
WMRA	Waste Management and Remedial Actions
WMRAD	Waste Management and Remedial Action Division
WMREI	Waste Management Research and Education Institute (UT)
WMTc	Waste Management Technology Center (ORNL)
WMTSG	Waste Management Technology Support Group
WMU	waste management unit
WNFM	World Nuclear Fuel Market
WNW	<i>Weekly NewsWire</i> (Energy Systems)
WOC	White Oak Creek
WOCC	Waste Operations Control Center
WOCE	1. White Oak Creek Embayment 2. World Ocean Circulation Experiment (NSF)
WOCEP	White Oak Creek Embayment Project
WOCH	White Oak Creek Headwaters
WOD	White Oak Dam
WODMAS	Waste Operations Data Management and Analysis System
WOL	White Oak Lake
WOMEN	Weapon Operation Mission Elements Notice
work-hour	(do not abbreviate either of these words; use instead of man-hour)
work-year	(do not abbreviate either of these words; use instead of man-year)
WORM	write once and read many (times)
WPAFB	Wright-Patterson Air Force Base
WPASRC	Waste Pit Area Stormwater Runoff Control
WPC	water pollution control
WPCF	Water Pollution Control Federation
WPD	Weapon Production Division (AL-DOE)
WPDD	Weapon Program Definition Document
WPDES	Wisconsin Pollutant Discharge Elimination System

wppm	weight parts per million
WPPSS	Washington Public Power Supply System
WPS	Westinghouse Plasma System
WQA	Water Quality Act of 1987
WQC	Water Quality Criteria
WQM	water quality monitoring
WQP	water quality parameter
wr	wreath (math)
WR	1. War Reserve 2. Work Request
WR&D	Waste Research and Development (programs) (ORNL)
WRAP	Waste Receiving and Processing Plant
WRATT	Waste Reduction and Technology Transfer
WRC	1. Water Resources Commission 2. Water Resources Council 3. Welding Research Council 4. whisker-reinforced ceramics
WRDC	Wright Research and Development Center
WREE	Waste Remediation and Environmental Engineering Section
WREMC	Water Resources and Environmental Monitoring Consortium (HBCU/MEI)
WRF	Woodbridge Research Facility
WRI	World Resources Institute
WRMB-1	Wide-Range Meteor Burst Gamma Monitoring System
WRP	1. Waste Reduction Program 2. Weapons Retirement Program
WRR	waste reduction representative
WRS	Water Reactor Safety
WRSC	Waste Reduction Steering Committee
WRT	with respect to
Ws	watt-second
WS	1. Windsor Site (DOE) 2. Workstation Support (ORNL)
WSA	1. waste stream analysis 2. wilderness study area
WSAP	Workplace Substance Abuse Programs (10 CFR Pt. 707)
WSD	weapon support definition
WSDD	Waste Systems Data and Development
WSF	1. Wake Shield Facility 2. waste storage facility
WSHP	water-source heat pump
WSMR	White Sands Missile Range
WSRS	Westinghouse Savannah River Site (DOE)
WSS	Weldon Spring Site (Missouri)
WSSRAP	Weldon Spring Site Remedial Action Project
WST	1. waste storage tank 2. Weapons System Trainer
wt	weight
wt %	weight percent
WTDC	waste treatment and disposal complex
WTF	West Tank Farm (Y-12 Plant)
WTH	whole-tree harvest
WTO	Watertown Operations Office (DOE)
WTS	Waste Tracking System
WTSD	Waste Transportation and Storage Disposal
WTTB	Web Transport Test Bed
WTTF	Wastewater Treatment Test Facility (ORNL)
WTTG	Waste Treatment Technology Group (ORNL)
WUA	weighted usable area

WUAF	water usage adjustment factor
WV	1. West Valley Project Office 2. West Virginia (use only with ZIP code addresses)
WVDP	West Valley Demonstration Project
WVNS	West Valley Nuclear Services Company, Inc.
WW	whitewater
WWI	World War I
WWII	World War II
WWMCCS	World Wide Military Command and Control System
WWW	World Wide Web (computer term)
WY	Wyoming (use only with ZIP code addresses)
Wyo.	Wyoming (use after city names in references, lists, tables, footnotes, bibliographies, and indexes; spell out in text)

(Desktop Publishing Terms)

WIKIWISI	(pronounced wicky-wizzy) Well, I'll know it when I see it
WYBIWYG	(pronounced wibby-wig) What you buy is what you get
WYGINWYS	(pronounced wiggin-wiz) What you get is not what you see
WYGIWYS	(pronounced wiggy-wiz) What you get is what you see
WYSIAC	(pronounced wizzy-ack) What you'll see is a challenge
WYSINWYG	(pronounced wizzin-wig) What you see is not what you'll get
WYSIRWYG	(pronounced wizzer-wig) What you see is really what you get
WYSIWYAG	(pronounced wizzy-wyag) What you see is what you almost got
WYSIWYG	(pronounced wizzy-wig) What you see is what you get
WYSIWYL	(pronounced wizzy-will) What you saw is what you lost

X-10	Oak Ridge National Laboratory ("ORNL" is preferred)
X-OE	ORNL Engineering Report
X-TEM	cross-section transmission electron microscopy
XDR	external data representation (computer routine)
Xe	xenon (element, Z = 54)
XHDPE	cross-linked, high-density polyethylene (also HDPEX and PEHX)
XLDPE	cross-linked, low-density polyethylene (also LDPEX and PELX)
XLPE	cross-linked polyethylene (also PEX)
XNS	Xerox™ Network System
XPS	X-ray photoelectron spectroscopy (also ESCA)
XRD	X-ray diffraction
XRF	X-ray fluorescence
XSO	ORNL Site Office (DOE)
XVRM	ex-vessel remote maintenance



# Y

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y	year (spell out because this SI abbreviation is not accepted by Energy Systems)
Y	yttrium (element, A = 70)
Y-12 Plant	Oak Ridge Y-12 Plant
y-avg	yearly average
YAEC	Yankee Atomic Electric Company
YAG	yttrium-aluminum-garnet
Yb	ytterbium (element, Z = 39)
YBCO	yttrium, barium, and copper oxides
yd	yard [convert to SI: meter (m)]
yd <sup>2</sup>	square yard [convert to SI: square meter (m <sup>2</sup> )]
yd <sup>3</sup>	cubic yard [convert to SI: cubic meter (m <sup>3</sup> )]
year	(do not abbreviate this word)
YM	Yucca Mountain Project Office (also YMPO) (DOE)
YMPO	Yucca Mountain Project Office (also YM) (DOE)
yr	year (spell out)
YTZP	yttria-doped tetragonal zirconia

Z	atomic number [atomic number = mass number - neutron number ( $Z = A - N$ )]
ZBB	zero-base budget
ZDC	zero-degree calorimeter
ZECO	Zaininger Engineering Company
ZEEP	Zero Energy Experimental Pile (Canadian)
ZEPHYR	Zero Energy Fast Reactor (U.K.)
ZG	zero growth
ZIRCOX	Zirconium Oxidation Model
Zn	zinc (element, $Z = 30$ )
ZnBr	zinc bromine
ZnBr <sub>2</sub>	zinc bromide
ZnCl <sub>2</sub>	zinc chloride
ZnO	zinc oxide
ZnS(Ag)	silver-activated zinc sulfide
ZPC	zero point of charge (hydrous iron and aluminum oxides)
Zr	zirconium (element, $Z = 40$ )
ZrO <sub>2</sub>	zirconia
ZTA	zirconia-toughened alumina

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