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Acronyms, Initialisms, and Abbreviations (4th Revision)

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MASTER

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USE OF ACRONYMS AND INITIALISMS IN TECHNICAL REPORTS

What is an *acronym*? an *initialism*? An acronym is a combination of letters that may be pronounced as a word; an initialism is an unpronounceable combination of letters. Example: ICBM (initialism) and CONUS (acronym, pronounced 'ko nus, for contiguous United States). Since both terms are used in the same way, the comments below apply to both.

Use in Text

General	<p><i>Avoid overwhelming your reader with acronyms and initialisms.</i></p> <p>When using an acronym or initialism for the first time in the text, enter the full phrase in its expanded version followed by the abbreviated form in parentheses. Example: Sandia National Laboratories (SNL). In a short report, one expanded version is sufficient. However, in a long report, you may repeat the expanded version in a later section to refresh the reader's memory; again, this will be followed by the parenthetical abbreviation.</p>
Plurals	<p>To pluralize abbreviations, add <i>s</i>, as in PMTs. Use the apostrophe only when confusion might result, as in K_d's.</p>
Use of <i>a</i> or <i>an</i>	<p>The indefinite article to use with an initialism (not pronounceable) is determined by the initial sound of the <u>first letter</u>. If the first letter has a vowel sound, use "an"; if it has a consonant sound, use "a." Example: <i>an</i> ICBM. The article to use with an acronym is determined by the initial sound of the "word," as a FROG. Other examples: <i>an</i> FFT, <i>a</i> FORTRAN program, <i>an</i> ADNET.</p>
Capitali- zation	<p>Use capital letters only when they are required by standard rules of grammar and <i>NOT TO INDICATE WHICH LETTERS MAKE UP THE ACRONYM</i>. Example: access control (AC).</p>

Nomenclature List

Importance of List	<p>If you have used many acronyms and other special terms in a technical report, it is a courtesy to your reader to add a nomenclature (or acronym) list. Do not assume that "everyone" will know what you mean. Your reader may not be as familiar as you are with the terminology in your particular field. Because the report is a permanent record, you must ask yourself if the terms you use today will be clear to a reader several years from now.</p>
Group Similar Types Together	<p>In addition to <i>initialisms</i> and <i>acronyms</i>, the nomenclature list may include <i>symbols</i> and <i>special</i> terms. Group terms according to type: (1) acronyms, abbreviations, and general terms; (2) mathematical English letters or terms; (3) mathematical Greek terms. Leave a blank line between each group. No subcaptions are required.</p>
Use Lower Case Before Upper Case	<p>If the same letter occurs in your nomenclature list in both upper and lower case, list the lower-case letter first (for example, list <i>ke</i> before <i>KE</i>).</p>

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LIST OF ACRONYMS, INITIALISMS, AND ABBREVIATIONS

A

a- —1. atto- (a prefix indicating 10^{-18}) 2. a unit of area equal to 100 m^2 (used mainly in agriculture)

A—ampere (also written as amp)

Å or **A**—angstrom, a unit of length (10^{-10}) used primarily to express wavelengths of optical spectra; also known as tenthmeter.

aA—absolute ampere; also, abampere

AA—1. atomic absorption 2. affirmative action

AAAP—accelerated access authorization program

AAAS—American Association for the Advancement of Science

AABL—advanced atmospheric burst locator

AAC—affirmative action compliance

AACG—American Association for Crystal Growth

AADCP—Army Air Defense Command Post

AAFB—Andrews AFB

AAFCE—Allied Air Forces, Central Europe (NATO)

AAI—abbreviations, acronyms, and initialisms

AAM—air-to-air missile

AANC—Aging Aircraft Nondestructive Center

AAO—Amarillo Area Office (DOE)

AAP—1. affirmative action plan 2. Adoption Assistance Program 3. antenna aperture package

AASM—advanced air-to-surface missile

AAU—accelerated aging unit

AAW—anti-aircraft warfare

AB—1. airburst 2. as-built

abamp—absolute ampere

ABC—1. advanced biomedical capsule 2. atomic, biological, and chemical (warfare) 3. Advanced Battery Consortium

ABF—advanced bomb family

ABITE—antenna built-in test equipment

ABL—1. atmospheric burst locator 2. armored box launcher 3. airborne laser

ABLE—Affiliated Black Laboratory Employees

ABLS—armored box launcher system

ABM—anti-ballistic missile

ABRES—advanced ballistic reentry system

ABRV—advanced ballistic reentry vehicle

abs—absolute

AB/SB—airburst/surface burst

ac or **AC**—alternating current

aC—abcoulomb (electromagnetic unit)

AC—access control

ACAD—advanced computer-aided design

ACARS—access control and release system

ACBM—asbestos-containing building materials

ACC—1. Alarm Control Center 2. Air Component Command

ACCEL—automated circuit card-etching layout

ACCORD—new generation of software tools for mechanical design and manufacturing automation

ACCS—1. Auxiliary Central Control Station 2. Army Command and Control System

ACD—1. armed convoy defenders 2. automatic call distribution

AC&D—alarm communication and display

ACDA—Arms Control and Disarmament Agency

ACE to ADEA

ACE—1. access control element 2. access control electronics 3. automatic checkout equipment 4. alternate common equipment 5. atmospheric compensation experiment 6. Allied Command, Europe 7. almanac, connectivity, and ephemeris

Ac-Em—actinium-emanation

ACES—atmospheric combustion exhaust simulator

ACF—Access Control Facility

acfm—active cubic feet per minute

ACH—automated clearing house

ACIA—1. asynchronous communications interface adapter 2. asynchronous communications interface alarm

ACIS—Alan, Charles, Ian System (Part of the CAD System)

ACL—access control list

ACM—1. Association for Computing Machinery 2. advanced conventional munitions 3. advanced cruise missile 4. asbestos-containing material

ACMV—advanced cruise missile—variant

ACNFS—Advisory Committee on Nuclear Facility Safety

AC/NUC—Assistant Controller, Nuclear (in Atomic Weapons Establishment, England)

ACO—advance change order

ACO(UK)—Atomic Coordinating Office, United Kingdom

ACP—asbestos-containing product

ACRE—automatic checkout and readiness equipment

ACRR—annular core research reactor (upgraded acronym for *ACPR*)

ACRS—Advisory Committee on Reactor Safeguards

ACS—1. advanced computer system 2. altitude control system 3. American Ceramic Society 4. automated cartridge system 5. advanced coded switch 6. access control system

A&CS—access and clearance system

ACSM—alternate computer security manager

ACSO—assistant computer security officer

AcU—actinouranium (nuclear physics)

ACU—automatic calling unit

ACV—armored combat vehicle

ACWEG—Advanced Conventional Weapons Engineering Group

AD—1. arming device 2. advanced development 3. aerodynamic diameter

A.D.—*anno Domini*

A/D—1. analog to digital (see *ADC*) 2. arm/disarm

Ada—a computer language being developed by the Department of Defense

ADA—1. arming device assembly 2. Americans with Disability Act

ADAC—alarm display and assessment console

ADAM—advanced database and modeling

ADAS—1. automatic data analysis system 2. alarm display and assessment system

ADC—1. analog-to-digital converter 2. Air Defense Command 3. atomic demolition charge 4. authorized derivative classifier

ADCI—American Die Casting Institute

ADCOM—Aerospace Defense Command (Air Force)

ADCON—address constant (a computer program)

ADD—arm/disarm device

AD&D—accidental death and dismemberment

ADDS—1. automated drawing data system 2. automated design definition system

ADEA—1. Army Development and Employment Agency 2. Age Discrimination Employment Act

ADEP—advanced development earth penetrator

ADF—1. adaptive digital filtering 2. automatic direction finder

ADI—asynchronous data interface

ADIZ—air defense identification zone

ADL—1. alarm data length 2. Advanced Devices Laboratory, Inc.

ADM—1. atomic demolition munition 2. action description memorandum

ADN—ammonium dinitramide

ADNET—Administrative Network

ADP—1. automated (or automatic) data processing 2. advanced development program 3. adaptive digital predictor 4. anticipated disability program

ADPA—American Defense Preparedness Association

ADPD—automated dry powder dispenser

ADPE—automated data processing equipment

ADR—alternative dispute resolution

ADRC—ARC digitized raster graphic

ADROV—advanced development and remotely operated vehicle

ADS—1. automatic data system 2. access delay system 3. ALCOA Defense System (obsolete: now McDonnell Douglas Technologies, Inc.)

ADSID—air-delivered seismic intrusion detector

ADSS—activated denial security system

ADTC—Armament Development and Test Center

ADT&E—advanced development test and evaluation

ADVICE—advanced image communication and enhancement

AE—1. acceptance equipment 2. abnormal environment

A-E—architect/engineer

AEA-UK—Atomic Energy Authority, United Kingdom

AEC—Atomic Energy Commission (obsolete; now Department of Energy)

AECS—advanced entry control system

AED—advanced electronic design

AEDA—atomic energy defense activities

AEDC—Arnold Engineering Development Center (USAF)

AEM—analytical electron microscope

AEP—antenna electronics package

AEPDS—Automated EAM Processing and Dissemination System

AEPT—advanced extraction process technology

AER—advance engineering release

AES—1. acceptance equipment system 2. Auger electron spectroscopy

AET—accelerated environmental test

AEU—accelerated environmental unit

af—audio frequency

aF—attofarad (replaces abfarad)

AF—augmentation force

A&F—arming and firing

AFA—arming and fuzing assembly

AFAP—artillery fired atomic projectile

AFAS—advanced field artillery system

AFATDS—advanced field artillery tactical data system

AFATL—Air Force Armament Test Laboratory

AFB—Air Force Base

AFBC—atmospheric fluidized-bed combustion

AFC to AHERA

AFC—1. automatic frequency control 2. automatic flight control

AFCEA—Armed Forces Communications and Electronics Association

AFCENT—Allied Forces, Central Europe (NATO)

AFD—arming and fuzing device

AFE—anti-ferroelectric

AFEWC—Air Force Electronic Warfare Center

AF&F—arming, fuzing, and firing

AFGL—Air Force Geophysics Laboratory

AFIT—Air Force Institute of Technology

AFLC/NSO—Air Force Logistics Command/Nuclear Support Office

AFNORTH—Allied Forces Northern Europe (NATO)

AFOC—Air Force Operations Center

AFOSP—Air Force Office of Security Police

AFP—approved funding program

AFPL—Air Force Phillips Laboratory

AFR—1. Air Force Regulation 2. away from reactor

AFRPL—Air Force Rocket Propulsion Laboratory

AFS—arming and fuzing system

AFSATCOM—Air Force Satellite Communications

AFSC—Air Force Systems Command

AFSD—Air Force Space Division

AFSMC—Air Force Space and Missile Systems Center

AFSOUTH—Allied Forces, Southern Europe (NATO)

AFSPACECOM—Air Force Space Command

AFSRB—Army Fuze Safety Review Board

AFSSD—Air Force Space Systems Division

AFSTC—Air Force Space Technology Center

AFT—a file transfer

AFTAC—Air Force Technical Applications Center

AFTEC—Air Force Test and Evaluation Command

AFTF—Alert Fire Team Facilities

AFV—army family of vehicles

AFWL—Air Force Weapons Laboratory (now Phillips Laboratory)

AGARD—Advisory Group for Aerospace Research and Development

AGB—automated glovebox bagout

AGC—automatic gain control

AGE—aerospace ground equipment

AGEX—aboveground experimental (or experimentation) (capabilities)

AGL—aboveground level

AGM—air-to-ground missile

AGNS—Allied-General Nuclear Services

AGR—advanced gas-cooled reactor

AGS—advanced guidance set

AGSP—authorized ground station personnel

AGT—aboveground test

AGVT—advanced ground vehicle technology

AGZ—actual ground zero

aH—abhenry

Ah—ampere hour

AHAC—aircraft monitor and control

AHAMS—automatic hardness assurance monitoring system

AHERA—Asbestos Hazards Emergency Response Act

AHM —anti-helicopter mine	AIU —armament interface unit
AHP —analytic hierarchy process	AK —adaption kit
AHS —American Helicopter Society	A-K —anode/cathode
AI —1. Atomics International 2. artificial intelligence	aka —also known as
AIA —Army Intelligence Agency	AKM —model designation for the Soviet assault rifle
AIAA —American Institute of Aeronautics and Astronautics	Al —aluminum (chemical symbol)
AIAAM —advance-interrupt air-to-air missile	AL —1. Albuquerque Operations (Field Office of DOE; use <i>DOE/AL</i>) 2. action level
AIB —anti-intrusion bar	ALARA —as low as reasonably achievable
AICBM —anti-intercontinental ballistic missile	ALAS —automated logistical analysis system
AIChE —American Institute of Chemical Engineers	ALBM —1. air-launched ballistic missile 2. air, land, and battle management
AICPA —American Institute Certified Public Accountants	ALBURT —Albuquerque budget reform task
AIDS —1. adaptive intrusion data system 2. automated information distribution system	ALC —advanced landfill cover
AIE —acceptance inspection equipment	ALCC —Airborne and Launch Control Center
AIEE —American Institute of Electrical Engineers	ALCM —air-launched cruise missile
AIFI —automatic in-flight insertion	ALDR —Abstracts of Limited Distribution Reports (a TIC publication)
AIFV —armored infantry fighting vehicle	ALDS —automatic lighting detection system
AIME —American Institute of Metallurgical (and Petroleum) Engineers	ALE —Arbitrary Lagrangian Eulerian
AIMS —assessment information management system	AlGaAs —aluminum gallium arsenide
AIP —American Institute of Physics	ALGOL —algorithmic language (computers)
AIRAPT —International Association for the Advancement of High Pressure Science and Technology (American Translation)	ALI —annual limit on intake
AIRS —advanced inertial reference sphere	AL-KAO —Albuquerque (Operations Office)/Kirtland Area Office
AIS —1. automatic intercept system 2. administrative information systems	ALN —adaptive learning network
AISES —American Indian Science and Engineering Society	ALO —air liaison officer
AIT —advance information technology	ALPF —adaptive low-pass filter
	alt —1. altitude 2. alternator 3. alteration 4. altimeter

ALU to ANT

ALU—arithmetic-logic unit

ALV—autonomous land vehicle

a.m.—ante meridiem

Am—1. americium (chemical symbol) 2. ammonium (chemical symbol)

AM—1. amplitude modulation 2. asbestos management

A/m—amperes per meter

AMA—1. automatic message accounting (computers) 2. administrative management activity

AMAC—aircraft monitor and control

AMACS—alarm multiplexer communications system (computers)

AMAD—activity mass aerodynamic diameter

AMC—1. advanced maintenance concept 2. Army Materiel Command 3. Army Missile Command

AMCO—Administrative Management Committee (or Council)

AMCS—alarm multiplexer communications system

AMEC—Advanced Materials Processes for Economics Development

AMEF—Agile Manufacturing Enterprise Forum

AMENDS—Army MICOM Electronic Notarized Document System

AMH—automated message handler

AMI—advanced manufacturing initiative

AMIP—Army Model Improvement Program

AMM—automated maintenance management

AMMS—automated maintenance and management system

AMO—1. Albuquerque Microelectronics Operations (formerly Bendix Albuquerque Operations) 2. aerial measurement operations

amp—ampere (also written as A)

AM-PM—amplitude modulation/phase modulation

AMPS—airborne multisensor pod system

AMR—Atlantic Missile Range

AMRAAM—advanced medium-range air-to-air missile

AMS—1. assets management system 2. aerial measuring system 3. American Society for Metals

AMSAA—Army materiel system analysis activity

AMT—1. advanced munitions technology 2. asbestos management team 3. advanced manufacturing technology

amu—atomic mass unit

An—actinon (chemical symbol)

ANC—Aerojet Nuclear Corporation

AND—advanced nuclear demolition

ANDES—anti-nuclear demonstrators

ANFO—ammonium nitrate and fuel oil

ANI—automatic number identification

ANL—1. Argonne National Laboratory 2. Aberdeen National Laboratory

ANMC—American National Metric Council

ANN—artificial neural network

ANS—1. American Nuclear Society 2. aerospace nuclear safety

ANSC—automated nuclear survivability criteria

ANS-ENS—American Nuclear Society/European Nuclear Society

ANSI—American National Standards Institute

ANSP—advanced nuclear systems and projects

ANT—advanced nosetip test

ANWSS —Army Nuclear Weapon Storage Site	APSL —Albuquerque Primary Standards Laboratory (DOE)
AOA —1. as-ordered agreement 2. airborne optical adjunct 3. angle of attack	APSPID —adaptive processor, seismic personnel intrusion detector
AOI —and-or invert (computers)	APT —1. automatic programming tool (a computer language) 2. Alliance for Photonic Technology
AOR —acknowledgment of receipt	AQAP —acceptance and quality assurance provisions
AOSS —automated office support system	AQES —Air Quality Energy Study
AOT —allowed outage time	AQL —acceptable quality level
AP —1. asbestos phenolic 2. Associated Press	AR —1. annual report 2. as required
APACHE —advanced parallel chemistry	A&R —appraisal and review
APAR —automated plutonium recording	ARAC —atmospheric release advisory capability
APAS —automated plutonium assay system	ARB —Army Battalion
APC —1. armored personnel carrier 2. automated PAL controller	ARC —1. Acquisition Review Committee 2. accident-resistant container 3. Architectural Research Consultants
APCHS —automated PAL code handling system	ARCCC —Accident Response Capabilities Coordinating Committee
APCVD —atmospheric pressure chemical vapor deposition	ARD —Army readiness date
APD —advance planning document	ARDEC —Army Research, Development, and Engineering Center (Picatinny Arsenal, NJ)
APG —Aberdeen Proving Ground (Maryland)	ARE —aerothermal reentry experiment
APH —(Fort) Apache Hill (Virginia)	ARES —1. advanced reentry system 2. advanced railroad electronics system
API —1. American Petroleum Institute 2. atmospheric pressure ionization 3. associated particle imaging 4. application programming interface	ARF —augmentation reserve force
APL —1. Advanced Physics Laboratory 2. Applied Physics Laboratory	ARG —accident response group
approx —approximate (used only in tabulations and figures)	ARH —antiradiation homing
APR —1. airborne profile recorder (see <i>TPR</i>) 2. action plan requirement	ARI —Army Research Institute
APS —1. American Physical Society 2. active protection system 3. accelerated procurement system	ARIEL —Advanced Radar Image Exploitation Laboratory
APSAHD —adaptive processor, seismic acoustic helicopter detector	ARL —1. Army Research Laboratory 2. acceptable reliability level
	ARM —atmospheric radiation measurement

ARMS to ASRAAM

ARMS—1. aerial radiological measuring system
2. Armor School (Army) 3. Aerial, Radiological Measuring System (Army)

ARO—after receipt of order

AROD—airborne remotely operated device

ARPA—Advanced Research Projects Agency
(formerly DARPA)

ARRIS—active rate reducer and inflation system

ARS—advanced reactor safety

ART—1. armed response team 2. alarm response team 3. airborne response team 4. arsenal release and transport

ARTAC—Applied Research and Technology Advisory Committee

AR&TD—advanced research and technology development

ARTI—Advanced Rotorcraft Technology Integration

ARTY FDC—Artillery Fire Direction Center (Army)

aS—absiemen (formerly abmho)

As—atmosphere (standard)

AS—1. airspeed 2. antenna sites 3. Allied Signal (BKC)

ASA—1. administrative staff associate 2. American Standards Association (obsolete; use *USASI*)

ASAP—1. as soon as possible 2. Advanced Seismic Array Program

ASARC—Army System Acquisition Review Council

ASAS—all source analysis system

ASAT—antisatellite

asb—apostilb (also known as blandel)

ASB—Army Science Board

ASBDU—Advanced System B Data Unit

ASC—ABRES shape charge

ASCE—American Society of Civil Engineers

ASCID—AUTODIN satellite interface compensation device

ASCII—American standard code for information interchange (computer program)

ASCOT—atmospheric studies in complex terrain

ASD—1. adversary sequence diagram
2. Aeronautical Systems Division (Air Force)
3. Assistant Secretary of Defense

ASDP—Assistant Secretary of Defense Programs

ASE—1. antenna shield enclosure 2. applicant system enhancement

AS&E—American Science and Engineering

ASEC—Applied Solar Energy Corporation

ASHRAE—American Society of Heating, Refrigeration, and Air Conditioning Engineers

ASIC—application-specific integrated circuit

ASIG—Albuquerque Special Interest Group

AS/KCD or **AS/KCP**—Allied Signal/Kansas City Division (or Kansas City Plant) (see also *BKC* and *KCD*)

ASM—1. air-to-surface missile (see *ASW*)
2. adversary sequence modeling 3. American Society for Metals

ASMD—anti-ship missile defense

ASME—American Society of Mechanical Engineers

ASMS—advanced strategic missile system

ASOC—Air Support Operations Center

ASP—1. automated signal processor 2. accident sequence precursor

ASQC—American Society for Quality Control

ASR—anelastic strain recovery

ASRAAM—advanced, short-range, air-to-air missile

ASROC—anti-submarine rocket

ASSESS—analytic system and software for evaluating safeguards and security

ASSIST—Automated System Security Incident Support Team (DOD)

ASSP—Advanced Small Site Program

assy—assembly

AST—airborne surveillance testbed

ASTM—American Society for Testing Materials

ASTX—(battery-powered sensor/transmitter)

ASV—adaptive suspension vehicle

ASW—1. anti-submarine warfare 2. air-to-surface weapon (see *ASM*)

asym—asymmetric

at—atomic

at.%—atomic percent

At—1. ampere-turn 2. astatine (chemical symbol)

AT—1. advanced technology 2. applied technology 3. armored tractor

ATA—automatic target acquisition

ATACMS—Army Tactical Missile System

ATAF—Allied Tactical Air Force (NATO)

ATBM—advanced tactical ballistic missile

ATBMP—Army Technology Base Master Plan

ATC—assembly test chip

ATD—Advanced Technology Demonstration

ATE—1. automatic test equipment 2. all-terrain equipment

ATES—autonomous targeting and engagement system

ATFES—Army Tactical Frequency Engineering System

ATIS—air transportable instrumentation shelter

ATL—automatic tape library

atm—atmosphere (a unit of pressure equal to 1.013250×10^6 dynes/cm²)

At/m—ampere-turn per meter

ATM—1. asynchronous transfer mode 2. anti-tactical missile

ATMS—automatic transmission measuring system

ATMX—atomic munition explosive rail transport car

ATP—1. alignment and testing procedures 2. aiming, tracking, and pointing 3. Advanced Technology Program

ATR—automatic target recognition

ATS—1. administrative terminal system (computers) 2. aerothermal/structure

ATSD/AE—Assistant to the Secretary of Defense for Atomic Energy

AT&T—American Telephone and Telegraph

ATTV—advanced teleoperator test vehicle

ATV—1. Army test vehicle 2. all-terrain vehicle

ATW—accelerator transmutation of nuclear waste

at. wt—atomic weight

a.u.—atomic unit

Au—gold (chemical unit)

AU—1. astronomical unit 2. authentication unit

AUR—all-up-round

Auth Code—authorization code (or number)

AUTOCONET—Automatic Communications Network

AUTODIN—Automated Digital Information Network

AUTOSEVOCOM—Automated Secure Voice Communications

AUTOVON to BASTEC

AUTOVON—Automatic Voice Network

AUVS—Association of Unmanned Vehicle Systems

aux—auxiliary

aV—abvolt

AVC—automatic volume control

AVDS—Aviation Depot Squadron

avg/av₂/av—average (*avg* is the most common; *ave* is used mostly in subscripts; *av* is seldom used)

AVIS—American visit (refers to a visit to the US by a member of the UK)

AVRADA—Avionics Research and Development Activity (Fort Monmouth, NJ)

AVS—1. access validation system 2. Avionics Depot Squadron 3. American Vacuum Society

AVSCOM—Aviation Systems Command (Army)

AW—1. atomic weapon 2. atomic warhead

AWACS—Airborne Warning and Control System

AWD—atomic weapon data (obsolete; now nuclear weapon data)

AWDS—Automated Weather Distribution System

AWE—Atomic Weapons Establishment (England)

AWE(A)—Atomic Weapons Establishment, Aldermaston (Reading, Berkshire, England)

AWE(B)—Atomic Weapons Establishment, Burghfield (Reading, Berkshire, England)

AWG—American wire gauge

AWLPG—Albuquerque (Operations) Workload Planning Guide (DOE)

AWOC—Alternate Wing Operations Center

AWRE—Atomic Weapons Research Establishment (England)

AWRS—average weighted residual squared

AWS—American Welding Society

AWSB—Atomic Weapons Safety Board

AWSC—analyst work space component

AWTG—Atomic Weapons Training Group

AWVS—Albuquerque Winter Visibility Study

B

b—1. barn (unit of area: 10^{24} cm²) 2. bit (binary digit); bit is seldom abbreviated unless it is used with a prefix, as in 8 kb

B—1. bel (logarithmic ratio) 2. brewster (optics) 3. bomb (when used with a number, as *B-52*)

BA—1. basic assembly 2. budget authority

BAA—business area analysis

BAC—1. Boeing Aerospace Company 2. Budget Advisory Committee (SNL) 3. bond additive corrections

BADT—best available developed technology

BA&E—Boeing-Aerospace and Electronics

BAF—backup alert force

BAFO—best and final offer

BAM—ballistic advance missile

BANCS—Bell Administrative Network Communications System

BAO—Bendix Albuquerque Operations (Bendix has become the Allied-Signal Aerospace Corp.) (See *BKC*)

BARS—Bell Audit Related System

BAS—1. Bell Audit System 2. Boeing Advanced Systems

BASIC—beginner's all-purpose symbolic instruction code (a computer language)

BASTEC—Bay Area Science and Technology Education Collaboration

BAT —best available technology	BERC —Bartlesville Energy Research Center
BBB —bisbenzimidazobenzophenanthroline (a polymer)	BERL —Burner Engineering Research Laboratory (SNL)
bbl —barrel	BES —Basic Energy Sciences
BCA —Battery Control Area	BET —Brunauer-Emmett-Teller (equation)
bcc —body-centered cubic	BETA —battlefield exploitation and target acquisition
BCC —Battery Control Center	BeV —billion electron volts (obsolete; use <i>GeV</i>)
BCD —binary coded decimal	BFO —beat-frequency oscillator
BCH —Bose-Chadhuri-Hacqueghem	BFOQ —bona fide occupational qualification
BCO —Bendix Connector Operations	BFPC —Buildings and Facilities Planning Committee
BCTK —boron calcium chromate titanium potassium perchlorate	BGM —ballistic guided missile
Bd —baud (a variable unit of data transmission speed— usually equal to one bit per second)	Bi —biot (use <i>aA</i> , abampere, instead)
BDA —battle damage assessment	BIA —Bureau of Indian Affairs
BDADS —beacon data acquisition and display system	BIC —Braduskill Intercept Concept
BDAI —best demonstrated available technology	BIM —1. ballistic intercept missile 2. barrier integrity monitor
Bde —brigade	BIRD —bilinear rotation decoupling
BDP —battlefield development plan	BIS —1. business information systems 2. bomb interface simulator
BDS —1. British Defence (British spelling) Staff 2. basic door structure	BISDN —broad-band integrated services digital network
BDT —burst delay timer	BISMAPS —Business Information System Modeling and Planning System
BDU —1. bomb dummy unit 2. battle dress uniform	BISP —Business Information Systems Program
°Be —degrees <i>Baumé</i> (used in the <i>Baumé temperature scale</i>)	BISS —base and installation security system
BE —binding energy	BISSPO —BISS Program Office
BECTU —Boeing Electrical Compatibility Unit	bit —binary unit (See b)
Benelux —Belgium, the Netherlands, and Luxembourg	BIT —built-in test
BeO —beryllium oxide	BITE —built-in test equipment
BEP —Bureau of Engraving and Printing	BIUA —bus interface unit, audio

BIUD to BSO

BIUD —bus interface unit, digital	BNI —Bechtel National, Incorporated
BIUD/M —bus interface unit, digital/modem	BNL —Brookhaven National Laboratory
BIUM —bus interface unit, modem	BNWL —Battelle Northwest Laboratory
BKC —Bendix, Kansas City (now <i>KC</i> —Kansas City Division of the Allied Signal Aerospace Corp.) Sometimes written <i>AS/KCD</i> for Allied Signal/ Kansas City Division.	BO —budget outlay (or obligation)
bkgd —background	BOD —biochemical oxygen demand
BKW-EOS —Becker-Kistiakowsky-Wilson equation of state	BOP —blowout prevention
BL —baseline	bp —boiling point
BLID —buried line intrusion detector	BP —bandpass
BLM —Bureau of Land Management	bpf —boiling point (degrees Fahrenheit)
BLS —1. Bureau of Labor Statistics 2. basic life support	BPG —boron pyrolytic graphite
BMC —Ballistic Missile Center	bpi —bits per inch
BMD —ballistic missile defense	bps —bits per second
BMDATC —Ballistic Missile Defense Advanced Technology Center	BPS —boundary penetration sensors
BMDO —Ballistic Missile Defense Office	Bq —becquerel (the SI unit of activity of ionizing radiation)
BMDSCM —Ballistic Missile Defense System Command	Br —bromine (chemical symbol)
BMEWS —Ballistic Missile Early Warning System	B&R —budget and reporting
BMHA —building modification hazard assessment	BRA —bomb relay assembly
BMO —Ballistic Missile Office	BRADC —Belvoir Research and Development Center
BMP —battle management plan	BRC —below regulatory concern
BMS —1. balanced magnetic switch (or sensor) 2. battlefield management system 3. business management system	BRES —buoy repeater system
BN —battalion	BRI —basic rate interface
BNC —Bayonet, Neill and Concelman (connector developed by Neill and Concelman)	BRL —Ballistic Research Laboratory (Aberdeen, Maryland)
BNFP —Barnwell Nuclear Fuel Plant (South Carolina)	BRP —Big Rock Point
	b/s —bits per second; bps is preferred
	BSD —business system design
	BSI —British Standards Institute
	BSO —Ballistic Systems Office (Air Force)

BSR—bulk shielding reactor

BSS—bor-hole seismic system

BSTS—1. burst surveillance and tracking system
2. boost surveillance and tracking system

BS&W—basic sediments and water

BTC—barbed tape concertina

BTE—battery timing equipment

BTI—Battery Technology Institute

BTL—Bell Telephone Laboratories, Inc. (use only informally, such as in internal memorandums; for formal reports, use *Bell Laboratories* or *Bell Labs*)

Btu—British thermal unit

BTX—benzene-toluene-xylene

BW—1. bandwidth 2. biological warfare
3. bridgewire

BWG—Birmingham wire gage

BWM—balance with motion

BWO—backward-wave oscillator

BWR—boiling-water reactor

BY—budget year

C

c—centi- (a prefix indicating 10^{-2} ; use *mm* instead)

C—1. capacity 2. capacitance 3. circumference
4. coulomb (quantity of electricity in electrons)
5. Confidential

°C—degree Celsius

C²—command and control

C³—command, control, and communications

C³I—command, control, communications, and intelligence

C³S—command, control, and communications system

C⁴—command, control, communications, and computers

C⁴S—Center for Command, Control, and Communications Systems

ca—1. circa (use with dates only)

CA—1. custodial agent 2. corrective action

C/A Code—coarse acquisition code

CAA—Clean Air Act

CAAD—computer-aided design and drafting

CAAMS—Criterion's Affirmative Action Management System

CAAPS—Criterion Affirmative Action Planning System

CABAL—calcium-modified boroaluminate

CABRA—Copper and Brass Research Association

CACC—Credibility Assessment Coordinating Center

CACDA—1. Combined Arms Center Development Activity 2. Combined Arms Combat Development Activity

CACECO—calculation (of sodium spills) in cells for containment (a computer program)

CAD—computer-aided design

CAD/CAM—computer-aided design/computer-aided manufacturing

CADD—computer-aided design and drafting

CAE—computer-aided engineering

CAE/RS—computer-aided engineering/rocket system

CAES—compressed-air energy storage

CAESAR—catalytic enhanced solar absorption receiver

CAF—command authority function

CAFMS—computer-aided Air Force management

CAGEC to CBR

CAGEC—commercial and government entity code

CAGINS—Center Advisory Group for Information Systems

CAI—1. computer-aided instruction
2. certified asbestos inspector

CAIN—controlled access by individual number

CAIS—1. coded aperture imaging system 2. Chief Architect of Information Systems

cal—calorie (*joule* is preferred)

CAL—1. Conversational Algebraic Language (computers) 2. completely assembled for launch

calc—calculated

CALS—computer acquisition and logistics support

CALSON—Computer-aided Acquisition and Logistics Support Operational Network

CAM—1. completely assembled missile
2. computer-aided manufacturing 3. computer-assisted makeup 4. content-addressed memory
5. continuous air monitor

CAMA—centralized automatic message accounting

CAMAS—central alarm monitoring and assessment system

CAMD—computer-aided molecular design

CAMP—1. crypto algorithm message processor
2. Capital Assets Management Program
3. Corporate Asbestos Management Program

CAMPS—computer-assisted mission planning system

CAMS—cybernetic anthropomorphous machine system

CANDU—Canadian deuterium uranium (a reactor)

CAORA—Combined Arms Operation Research Activity (Army)

CAP—1. code-activated processor 2. computer-aided plotting 3. corrective action plan

CAPE—capability and proficiency evaluation

CAPRS—compensation and performance review system

CAPS—computer automated publishing system

CARD—1. computer-aided remote driving
2. Citizens for Alternatives to Radioactive Dumping

CAROT—centralized automatic reporting on trunks

CARS—1. coherent anti-Stokes Raman spectroscopy 2. coherent anti-Stokes Raman scattering

CART—cloud and radiation testbed

CAS—1. calibrated airspeed 2. compressed-air storage 3. close air support 4. central alarm station 5. chemical abstract services
6. Condition Assessment Survey 7. cost accounting standards 8. completely assembled for strike

CASE—computer-aided software engineering

CASM—Community Academy for Science and Mathematics

CASP—Comparative Analysis of Standards Program (computers)

cat—category

CAT—1. clear-air turbulence 2. computer-aided tomography

CATCOMS—credibility assessment team communications system

CATV—1. community antenna television 2. cable television

CAW—channel address word

CBC—cipher-block chaining

CBD—Commerce Business Daily

CBI—computer-based instruction

CBP—Chicago bulletproof (doors)

CBR—chemical, biological, radiological

CBT—computer-based training

cc—1. cubic centimeter (use cm^3 instead)
2. carboncarbon

c.c.—complex conjugate

CC—1. core competencies 2. counter-counter-measure (most commonly written as CCM)
3. Coronado Club 4. Computer Committee

C-C—cloud-to-cloud

CCA—circuit card assembly

CCAD—command-coded arming device

CCB—Configuration Control Board

CCC—1. command, control, and communications (see C^3) 2. Core Competency Center

CCD—1. charge-coupled device 2. camouflage, concealment, and deception (sometimes written as *CC&D*)

CCDF—complementary cumulative distribution function

CCE—1. Center for Computational Engineering
2. certificate of claim for exemption

CC&E—contractor's choice and expense

CCF—Central Computing Facility

CCHP—Corporate Chemical Hygiene Plan

CCIO—contractor counter-intelligence officer

CCIP—Core Competency In-Rack Project

CCIR—Consultative Committee on International Radio (European standard)

CCITT—Consultative Committee on International Telephone and Telegraph

CCIU—command and control interface unit

CCL—commodities control list

CCM—1. Communication Center Module
2. counter-countermeasure

CCN—central computing network

CCO—chargeable cost objective

CCP—controlled component protection

CCPDS—Command Center Processing and Display System

CCR—cyclic catalytic reforming

CCS—Central Control Station

CCS²—Command and Control Subordinate System

CCST—center for compound semiconductor technology

CCTC—Coyote Canyon Test Complex

CCTV—closed-circuit television

CCVT—coupling capacitor voltage transformer

ccw—counterclockwise

CCW—channel command word

cd—candela (a measurement of luminous intensity)

CD—1. computer diode 2. command disable (or disablement) 3. command destruct 4. control drawing 5. compatibility drawing (or document) 6. control document (as in CD453826)

C/D—charge/discharge

CDA—core disruptive accident (see *HCDA*)

CDAM—crypto device adaptor modules

CDAS—classified document accountability system

CDC—1. cumulative defects criteria 2. Control Data Corporation 3. Center for Disease Control

CDEC—Combat Developments Experimentation Command (Army)

CDF—Central Distribution Facility

cd/ft²—candela per square foot

CDI—common data input

CDIRS to CERT

CDIRS—common data input and retrieval system

CDIU—control display interface unit

CDM—1. continuous dispensing masker
2. code-division multiplex

cd/m²—candela per square meter

CDOCS—classified document control system

CDOS—Cromemco disk operating system

CDPS—CMS data production system

CDR—1. critical design report 2. complete design release 3. conceptual design review

C&DR—characterization and development report

CDRL—Contractor Data Requirements List

CD-ROM—compact disk/read-only memory

CDS—1. command disable system 2. control and display system

CDT—Corporate Diversity Team

CDU—capacitor discharge unit

Ce—cerium (chemical symbol)

CE—1. Corps of Engineers 2. capital equipment
3. consistently exceeds 4. communications electronics

CEA—American translation from French: French Atomic Energy Commission

CEARP—Comprehensive Environmental Assessment and Response Program (DOE)

CEC—1. Capital Equipment Committee
2. Computing Education Center 3. cation exchange capacity 4. Commission of European Communities

CECOM—Communications and Electronics Command (Army)

CEDE—committed effective dose equivalent

CEE—courier elevated eyes

CEEEEC—committee on energy, environment, and economic competitiveness

CEES—1. camouflage effectiveness evaluation system 2. committee on earth and environmental sciences

CEG—Corporate Ergonomics Group

CEL—1. Civil Engineering Laboratory (Navy)
2. commercial equipment list

CELS—coded explosive logic system

CEM—1. channel electron multiplier 2. crew escape module

CENEF—Joint US/Russian Center for Energy Efficiency

CENSEI—Center for System Engineering and Integration

CENTAG—Central Army Group (NATO)

CENTCOM—Central Command

CENTO—Central Treaty Organization

CEOI—communications/electronics operating instructions

CEP—1. circle of equal probability 2. circular error probable (ICBM impact accuracy) 3. Concept Evaluation Program

CEQ—Council on Environmental Quality

CER—complete engineering release

CERCLA—Comprehensive Environmental Response, Compensation, and Liability Act

CERL—1. commercial equipment requirements list 2. Construction Engineering Research Laboratory

CERN—1. *Commission Europeenne pour la Recherche Nuclaire* (European Laboratory for Particle Physics in Geneva, Switzerland) 2. Controller Establishments Research and Nuclear (UK equivalent of DOE)

CERT—Computer Emergency Response Team (DOD)

CES —code enabling switch (or system)	CGI —computer graphics interface
CEWG —containment and effects working group	CGM —computer graphics metafile
cf —compare	CGN —guided missile cruiser (nuclear)
Cf —californium (chemical symbol)	cgs —centimeter-gram-second (use of all units particular to this system is discouraged by SI)
CF —customer funded	CGS —CONUS Ground Station
CFA —1. covering force area 2. central facility area 3. cross-field amplifier 4. cognizant federal agency	CHAMMP —computer hardware, advanced mathematics, and model physics
CFC —1. Combined Forces Command (Korea) 2. chlorofluorocarbons 3. Conax Florida Corporation	chan —channel
CFD —computational fluid dynamics	CHC —chlorohydrocarbons
CFE —conventional forces in Europe	CHE —conventional high explosive (see <i>IHE</i>)
cfm —cubic feet per minute (ft^3/min preferred)	ChemIServe —Chemical Information Service; see CIS
CFM —contamination-free manufacturing	CHEMKIN —chemical kinetics (a computer code)
CFO —Chief Financial Officer	CHTM —Center for High Technology Materials
CFPO —customer-funded program office	CH-TRU —contact-handled transuranic (waste)
CFR —1. commercial fast (breeder) reactor 2. Code of Federal Regulations	Ci —curie (unit of radioactivity)
CFRD —confidential, formerly restricted data	CI —1. confident informants 2. counterintelligence
cfs —cubic feet per second (ft^3/s preferred)	C³I —command, control, communications, and intelligence
CFS —conventional firing set	CIA —1. Central Intelligence Agency 2. control indicator assembly
CFTM —captive and flight test missile	CIAC —computer incident advisory capability (DOE)
CFU —central function unit	CIB —Centralized Intercept Bureau
CFY —current fiscal year	CIC —1. COMSEC intelligence controller 2. Combat Information Center
cg —centigram	CICS —customer information control system
CG —1. center of gravity 2. Commanding General	CID —charge injection device
C-G —cloud-to-ground	CIE — <i>Commission Internationale de l'Eclairage</i>
CGA —1. carrier group alarm 2. color-graphic adapter	CIHS —classified information handling system (European TV standards)
CGC —color-graphic controller	CIIMA —contractors image and information management association

CIK to CMAS

CIK—crypto ignition key

CIM—1. computer integrated manufacturing
2. corporate information management

CINC—1. Commander-in-Chief 2. Commander-in-Charge

CINCADCOM—Commander-in-Chief, Aerospace Defense Command

CINCAFCENT—Commander-in-Chief, Allied Forces Central (Europe)

CINCEASTLANT—Commander-in-Chief, East Atlantic

CINCELM—Commander-in-Chief, Eastern Atlantic and Mediterranean (Navy)

CINCEUR—Commander-in-Chief, Europe

CINCFE—Commander-in-Chief, Far East

CINCLANT—Commander-in-Chief, Atlantic (US)

CINCMEAFA—Commander-in-Chief, Middle East, Africa, and Southern Asia

CINCNORAD—Commander-in-Chief, North American Air Defense

CINCPAC—Commander-in-Chief, Pacific Command (US)

CINCRED—Commander-in-Chief, Readiness Command

CINCSpace—Commander-in-Chief for Space

CINCSPECOMME—Commander-in-Chief, Specific Command, Middle East

CINCUNC—Commander-in-Chief, United Nations Command

CINCUSAEUR—Commander-in-Chief, U.S. Army, Europe

CINCUSNAVEUR—Commander-in-Chief, US Navy, Europe

CINDY—Computerized Internal Dosimetry Software Package

cir mil—circular mil

CIS—1. Commonwealth of Independent States
2. Classified Information System 3. Chemical Information System (Also called ChemIServe)

CIT—Compact Ignition Tokamak

CIVA—charge-induced voltage alteration

CIWS—close-in weapon support

CJCS—Chairman, Joint Chiefs of Staff

ckt—circuit (also *cir*)

cl—chlorine (chemical symbol)

CL—centerline

CLAZAS—clad axial (Z-direction) motion in subassemblies (a computer program)

CLC—1. central (or command) logic and control
2. current-limiting conductor

CLCS—closed-loop control system

CLEO—classified energy on-line

CLERVER—clients and servers

CL&F—common look and feel

CLIF—Chemistry Lirrac Irradiation Facility

CLNS—Connectionless Network Services

CLS—Central Locator System

cm—centimeter

c.m.—center of mass

cm²—centimeter squared

cm³—cubic centimeter

c/m²—incorrect; see *cd/m²*

Cm—curium (chemical symbol)

CM—1. countermeasure 2. container module

CMAS—classified material accountability system

CMC —1. central monitor control 2. Cheyenne Mountain Complex	CNC —computer numerical, controlled
CMCS —continuous monitor and control system	CNCE —communications nodal control element
CMD —1. command 2. Configuration Management Document (a US-UK program)	CNES — <i>Centre National d'Etudes Spatiales</i>
CME —construction management engineer	CNF —cost: no fee
cmf —circular mils/foot (electrical conductivity)	CNO —Chief of Naval Operations
CMF —common-mode failure	CNS —centralized nuclear surety
CMFD —compressed magnetic field device	CNSAC —Center for National Security and Arms Control
CMG —control moment gyros	CNWDI —critical nuclear weapon design information
CMGS —cruise missile guidance set	CO —construction observer
CMI —cruise missile interface	COA —1. chart of accounts 2. customer order administration
cmil —circular mil (also written as cir mil)	COAT —career opportunity for advancement training
CMIS —Crisis Management Intercom System	coax —coaxial (cable)
CMM —capability maturity model	COB —1. coordination of benefits 2. close of business 3. computer-on-a-board
CMOS —1. complementary metal-oxide semiconductor (Fast Adder) 2. complementary metal oxide on silicon	COBOL —Common Business-Oriented Language (a computer language)
CMP —1. Center for Materials Production 2. container module packaging	COBRA —1. Consolidated Omnibus Budget Reconciliation Act 2. Calculation of Flow in Rod Bundle Reaction Assemblies (a computer program)
CMPLIS —continuous monitoring pH log-in system	COBRA DANE —Intelligence Phased Array Radar at Shemga, Alaska
cm/s —centimeters per second	COC —1. code of conduct 2. chain of custody
CMS —1. control, monitor, and support 2. common mapping system 3. code management system	COD —crack-opening displacement
CMSD —code-multiplier sensor data	COEA —cost and operational effectiveness analysis
CMT —Center for Microelectronics Technologies	COED —computer-operated electronic display
CMTF —Collector Module Test Facility	COEES —Central Office Equipment Engineering System
CMU —control monitor unit	COE/EUO —European Corps of Engineers
CMV —1. commercial motor vehicle 2. countermeasures verification	coef —coefficient
CN —1. cemetery network 2. counter narcotics	COGO —Coordinated Geometry (a computer language)

COGS to CPCM

COGS—continuous orbital guidance system

COI—certificate of inspection

COIN—counterinsurgency

colog—cologarithm

COM—computer-output microfilm

COMET—computer-operated management evaluation technique

COMINT—Communications Intelligence (a computer program)

COMM—communications

COMMZ—communications zone

COMRADEX—effects of containment and meteorology on the environmental radiation exposure resulting from a power reactor accident (a computer program)

COMSAT—Communication Satellite (Corporation)

COMSEC—communications security

COMUSK—Commander, US Forces, Korea

COMUSMACV—Commander, US Military Assistance Command, Vietnam

COMUX—combinatorial multiplex

CONAD—Continental Air Defense (Command)

CONARC—Continental Army Command

conc—concentrate

const or Const—constant

CONTRN—a computer language

CONUS—contiguous United States

COO—conduct of operations

conv—converter

COPE—critically ordered path evaluator (computer terminology)

COQ—cost of quality

CORCON—core/concrete (interaction code)

CORDIVEM—Corps/Division Evaluation Model

CORRTEX—continuous reflective radius time experiment

CORBA—common object request broker architecture

cos—cosine

COS—1. Cray operating system 2. Chief of Staff

cosh—hyperbolic cosine

COSL—cooled optically stimulated luminescence (see OSL)

COSMIC—common systems main interconnecting

COSMOS—computer system for mainframe operations

cot—cotangent

COT—consolidated operability test

cotar—correlated orientation tracking and range

cotat—correlated tracking and triangulation

coth—hyperbolic cotangent

COTS—commercial, off-the-shelf

COV—counter-obstacle vehicle

COVAWT—cooperative vertical-axis wind turbine

COZI—communication zone indicator

cp—1. chemically pure 2. candlepower

cP—centipoise

CP—1. carbon phenolic 2. control point 3. command post

CPAF—cost plus award fee

CPC—compound parabolic concentrator

CPCM—certified professional contract managers

cpd—contact potential difference

CPD—1. central pulse distributor 2. continuing professional development

CPE—command post equipment

CPFF—cost plus fixed fee

CPI—characters per inch

CPIA—Chemical Propulsion Information Agency

CPIF—cost plus incentive fee

CPIIC—Corporate and Personal Integrity Investigative Committee

C-PIP—Corporate and Personal Integrity Program

CPJ—chlorinated polyethylene jacket

cpm—cycles per minute

CPM—1. critical path management
2. Center for Project Management

CPMS—cable pressure monitoring system

CPPM—computer protection program manager

CPPSR—contractor personal property systems review

CPR—cardiopulmonary resuscitation

CPS—1. cycles per second (obsolete; use *Hz* instead) 2. certified professional secretary

CPSR—Contractor Purchasing System Review

CPSRC—Corporate and Personal Standards Review Committee

CPT—current procedural terminology

CPU—central processing unit

CPV—command post vehicle

CPX—command post exercise

CQA—Chairman's Quality Award (AT&T)

CQE—1. certified quality engineer 2. Corporate Quality Excellence

CQM—certification, qualification, and monitoring

Cr—chromium (chemical symbol)

CR—1. catalytic reforming 2. contractor 3. contact resistance 4. change requisition

CRA—Civil Rights Act

CRADA—Cooperative Research and Development Agreement

CRBRP—Clinch River Breeder Reactor Plant

CRC—1. Control and Reporting Center 2. cyclic redundancy check (computers)

CRCM—Comprehensive Regional Center for Minorities

CRD—1. civilian research and development
2. confidential restricted data

CRDEC—Chemical Research, Development, and Engineering Center

CREG—controlled reluctance eddy-current generator

CRF—1. Combustion Research Facility 2. central response force

CRFP—Cooperative Research Fellowship Program

CRL—Cook Research Laboratories

CRM—1. chemical remanent magnetization
2. Center for Radiation-Hardened Microelectronics
3. Corporate Requirements Management (or Manager)

CRO—cathode-ray oscilloscope

CRRES—combined release and radiation effects satellite

CRT—1. corporate requirements tracking
2. cathoderay tube

CRTF—Central Receiver Test Facility

CRWM—civilian radioactive waste management

Crypto—communications security keying material

cs or cS—centistoke

c/s to CTCA

c/s—cycle(s) per second (use *Hz* instead)

Cs—cesium (chemical symbol)

CS—1. "can select" 2. compound semiconductor
3. communications satellite 4. core support

C-S—customer-supplier

C/S—containment and surveillance

CSA—1. Canadian Standards Association 2. canned subassembly 3. compliance schedule agreement (or approval) 4. Command Support Area

CSAC—Computer Security Advisory Committee

CSAMT—controlled-source audio-frequency magnetotelluric

CSat—customer satisfaction

csc—cosecant

CSC—1. Central Security Control 2. computer software component 3. computer systems coordinator

csch—hyperbolic cosecant

CSCI—computer software configuration (or component) item

C/S CSC—cost and schedule control systems criteria

CSD—control and status display

CSDP—Continental Scientific Drilling Program

CSEL—combat survivor/evader locator

CSG—combinatorial solid geometry

CSIL—critical and sensitive information list

CSIS—Center for Strategic and International Studies

CSIU—coded switch interface unit

CSL—Contractor Standards Laboratory

CSM—1. computer security manager 2. core support module

CSMA/CD—carrier sense with multiple access and collision detection

CSNI—Committee on Safeguards of Nuclear Installations

CSOC—Consolidated Space Operations Center

CSP—1. chopped silica phenolic 2. control switching point 3. certified safety professional

CSPD—career services for persons with disabilities

CSR—1. current situation room 2. computer security representative 4. customer service request

CSRL—1. common strategic rotary launcher
2. Compound Semiconductor Research Laboratory

CSRS—coherent Stokes-Raman spectroscopy

CSS—1. coded switch set (or system) 2. component support structure 3. US designator for Chinese surface-to-surface missile

CSSA—Crop Science Society of America

CSSC—coded switch set controller

CSSM—computer security site manager

CSSO—computer system security officer

CST—crystalline silico-titanate

CSW—channel status word

CSWS—Command Support Weapon System

CT—1. cryoresistive transmission 2. current transformer 3. counter terrorism 4. computed tomographic (microscopy)

CTA—Central Training Academy

CTAC—Community Training and Assistance Center (Boston)

CTAQ—Center for Transportation and Air Quality

CTB—comprehensive test ban

CTBN—carboxy terminated polybutadiene acrylonitrile

CTBT—Comprehensive Test Ban Treaty

CTCA—communicated threat capability assessment

CTD—1. corporate training and development
2. charge transfer device

CTE—component test equipment

CTF—1. Central Technical File 2. Coyote Test Field

CTFC—Coyote Test Field Complex

CTH—a three-dimensional shockwave physics code developed at SNL

CTHC—Command Tactical Operations Center

CTL—combat training launch

CTM—collimation test module

CTMS—carrier transmission maintenance system

CTOC—Command Tactical Operations Center

CTP—Comprehensive Test Plan

CTR—1. controlled thermonuclear reactor
2. center 3. contractor

CTSS—CRAY time-sharing system

CTTF—Countermine Test Track Facility

CTU—1. compatibility test unit 2. calibrator test unit

CTW—clean tactical weapon

CTZ—Corps Tactical Zone

cu—cubic

CUBE—computer use by engineers

CUCV—commercial utility cargo vehicle

CUSP—Center for Ultraclean Semiconductor Processing

CUSR—custodial unit status report

CUSUM—cumulative summation

CV—CryptoVariable

CVC—1. conserved vector current 2. chemical vapor composites

CVD—1. chemical vapor deposition 2. copper vapor deposition

CVP—countermeasures verification program

CVR—1. Center for Verification Research 2. current viewing resistor

CVS—composition variability study

CVT—current viewing transformer

cw or CW—1. continuous wave 2. clockwise

CW—1. chemical warfare 2. chemical weapon .
3. conventional weapon

CWA—1. Communication Workers of America
2. Clean Water Act

CWDR—chemical waste disposal request

CWL—chemical waste landfill

cwt—hundredweight

CX—categorical exclusion

CY—calendar year

CYBL—cylindrical boiling

CYLTRAN—an electron/photon transport code

D

d-—deci- (a prefix indicating 10^{-1})

d—1. density 2. day 3. deuteron or deutron

D—1. debye (a unit of electric dipole moment, equal to 10^{-18} Franklin cm) 2. deuterium 3. dee (in a cyclotron) 4. diopter (optics) 5. darcy (a unit of permeability; see *mD*)

da—dry air

DA—1. Department of the Army 2. double amplitude

D/A—digital to analog

DAASY—data acquisition and analysis system

DAB—data acquisition box

DAC to DCSRDA

DAC—1. data acquisition and control 2. digital-to-analog converter 3. derived air concentration 4. Defense (Nuclear Agency) auxiliary closure

DACCC—Dispersed Aircraft Cell Control Center

DADS—data acquisition and display system

DAF—Device Assembly Facility

DAGS—data-gathering system

DAM—1. device adapter module 2. data acquisition module

DAO—Dayton Area Office (DOE)

DAP—diallyl phthalate

DA/PA—design agency/production agency

DARCOM—1. Development and Readiness Command (Army) 2. Development and Research Command

DARHT—dual-axis radiograph hydrotest

DARPA—Defense Advanced Research Project Agency (obsolete; now the Advanced Research Projects Agency)

DAS—data acquisition system

DASA—Defense Atomic Support Agency (obsolete; now the Defense Nuclear Agency)

DASC—Direct Air Support Center

DASD—direct-access storage device (computers)

DASMA—Deputy Assistant Secretary for Military Application (DOE)

DASO—demonstration and shakedown operations

DAT—1. Diversity Action Team 2. digital audio tape

DAU—data authentication unit

DAVID—digital automatic video intrusion detection

dB—decibel

DB—depth bomb

DBA—1. derived air concentration 2. database administrator

dbi—decibels for an isotropic source

dBm—decibel in ratio to 1 mW

DBMS—database management system

DBR—distributed Bragg reflectors

DBS—debris barrier system

dB SPL—decibel sound pressure level

dc—direct current

DC—1. data concentrator (computers) 2. direct charges 3. direct chill

D&C—drilling and completion

DCA—1. Defense Cooperation Agreement 2. dual-capable aircraft 3. Defense Communication Agency

dc/ac—direct current/alternating current

DCC—dialog corporate connection (Library)

DCER—design criteria engineering release

DCF—dose conversion factor

DCH—direct containment heating

DCO—detonator circuit ohmmeter

DCP—device control program

DCPC—dielectric compound parabolic concentrator

DCPG—Defense Communications Planning Group

DCR—data communication request

DCS—1. Document Control Station 2. drawing (or document) control system

DCSA—dependent care spending account

DCSC—Desktop Computer Support Center

DCSRDA—Deputy Chief of Staff, Research Development, and Acquisition (Army)

DCTL —direct-coupled transistor logic	DEFCON —defense readiness condition
DCU —data control unit	DEFORM —fuel deformation calculation (computers)
DCVW —direct current voltage withstanding	deg —degree; with numbers you may use the symbol (°): 45° angle or 32°C
DCWV —direct-current working volts	DEGS —diethyl glycol succinate (explosive)
DD —double density	DELPHI —discriminating electrons with laser photon ionization
D/D —disablement/denial	DELSOL —“of the sun (span)” (computer code)
D&D —decontamination and demolition	DEMO —demonstration plant (CRBRP) analysis (computers)
DDA —digital differential analyzer	DEMP —dispersed electromagnetic pulse
DDE —dynamic data exchange	DEP —1. Dental Expense Plan 2. diversified equity portfolio
DDI —Decisions and Designs, Inc.	der or deriv —derivative
DDN —Defense Data Network	DER —development engineering release
DDS —1. detailed design specification 2. direct digital synthesizer	DES —data encryption standard
DDT —1. design demonstration testing 2. deflagration-to-detonation transition	det —detonator
DDTA —derivative differential thermal analysis	dev —deviation
DE —disablement equipment	DEW —direct energy weapons
DEA —Drug Enforcement Agency	df —degree of freedom (also <i>DOF</i>)
DEAR —DOE Acquisition Regulation	DF —1. deuterium fluoride 2. direction finder
DEB —depolarizer electrolyte binder	DFD —1. demolition firing device 2. data flow diagram
DEC —Digital Equipment Corporation	2-DFFT —two-dimensional fast Fourier transform
deca —a prefix denoting 10 (a variant of deca is deka)	DFM —design for manufacturing; now DPR: design for product realization
DECANAL —decision analyses (computers)	DFP —defensive fighting position
DECnet —Digital Equipment Corporation Network (computers)	DFTP —detailed flight test plan
decon —decontamination	DFWM —degenerate four-wave mixing
DECTalk —a speech synthesizer	dg —decigram
DECUS —Digital Equipment Corporation User Society	DG —design guide
DEF —data exchange format	

DG/DAC to DNB

DG/DAC—Data General/Data Acquisition and Control (a subsystem of *AIDS*)

DGE—DADS graphic environment

DGP—data-gathering panel

DGSWS—Director General of Strategic Weapon System

DGZ—designated (or desired) ground zero

DHE or **DHX**—dump heat exchanger

DHFR—dihydrofolate reductase

DHLW—defense high-level waste

DHM—dexterous hand master

dHvA—*de Haas-van Alphen* (effect)

D&I—disassembly and inspection

dia or **diam**—diameter

DIA—Defense Intelligence Agency

DIAL—differential absorption LIDAR

DICE—defensive information to counter espionage

DID—1. direct inward dialing 2. dynamic identification 3. defense in depth 4. data item description 5. display interface device

DIFA—digital impedance for Faradaic analysis

DII—defense industry initiative

DIIC—dielectric insulated integrated circuit

dim—dimension

DIP—dual in-line package

DIS—Defense Investigative Service

DISA—Defense Information Systems Agency

DISC—direct-injected stratified charge

DISIDS—display and information distribution system

dis/s—disintegrations per second

DIU—data interface unit

div—1. divergence 2. division

DJTA—development joint test assembly

dL—deciliter

DL—door lock

DLC—1. Diversity Leadership Committee
2. data link control

DLCF—data link control field

DLPI—discrete line PAL interface

DLR—American translation German research establishment for Aeronautics and Astronautics

DLWG—damage limitation working group (renamed *CEWG*: containment and effects working group)

dm—decimeter

DM—department manager

DMA—1. Division of Military Application (obsolete; now Assistant Secretary for Defense Programs)
2. Defense Mapping Agency 3. Director of Military Affiliations 4. direct memory access

DMC—digital microcircuit

DMF—Data Management Facility

DMP—discrepancy microprocessor

DMR—database management routine

DMS—data (or document) management system

DMSP—1. Defense Meteorological Satellite Program 2. Defense Meteorological Support Program

DMTS—distinguished member of the technical staff

DMZ—demilitarized zone

DNA—Defense Nuclear Agency

DNA/FC—Defense Nuclear Agency/Field Command

DNB—departure from nucleate boiling

DNFSB —Defense Nuclear Facility Safety Board	DOE/OSS —Department of Energy, Office of Safeguards and Security
DNI —dinitroimidazole	DOE/RFAO —Department of Energy, Rocky Flats Area Office
DNSI —defense nuclear surety inspection	DOE/SRO —Department of Energy, Savannah River Operations Office
DNT —dinitrotoluene (explosive)	DOE/WPD —Department of Energy/Weapons Program Division
DNTS —distributed network terminal server	DOF —degree of freedom (also <i>df</i>)
DOB —1. depth of burst 2. dispersal operating base	DOI —1. direct optical initiation 2. Department of the Interior
DOBIS —Dortmunder Bibliothers Systems (Library program to retrieve references)	DOL —1. Department of Labor 2. disperse operating location
DOC —Department of Commerce	DOS —1. Department of State (US) 2. disk operating system
DOCUSAR —document storage and retrieval	DOT —Department of Transportation (US)
DoD —Department of Defense (US)	DOVAP —Doppler velocity and position
DOD —depth of discharge	DOW —DOW Chemical Company (Golden, Colorado)
DoDD —Department of Defense Directive	DP —1. dew point 2. defense program (or plan) 3. data processing 4. disposal procedure
DOE —Department of Energy (US)	DPA —diversion path analysis
DOE/AAO —Department of Energy/Amarillo Area Office	DPAC —Disability Placement and Accessibility Committee
DOE/AL —Department of Energy/Albuquerque Operations Office	DPC —Direct Program Committee
DOE/AN —Department of Energy/Arms (Control and) Nonproliferation	DPCM —differential pulse-code modulation
DOECN —Department of Energy Communications Network	DPCTP —Defense Programs Critical Technology Plan
DOEESC —Department of Energy Electrical Safety Committee	dpdt —double-pole, double-throw (electrical switches)
DOE/ID —Department of Energy Idaho (Field Office)	DPM —1. dual-purpose missile 2. data processing machine 3. documents per minute
DOE/KAO —Department of Energy Kirtland Area Office	DPR —design for product realization
DOE/MA —Department of Energy, Office of Military Applications	DPS —data processing set
DOENTS —Department of Energy National Telecommunications Systems	DPSK —differential-phase-shift keying
DOE/NV —Department of Energy, Nevada Operations Office	dpst —double-pole, single-throw (electrical switches)

DR to DT²C³

DR—disability retirement

DRA—detailed risk analysis

DRAAG—Design Review and Acceptance Group

DRAM—1. dynamic response of articulated machinery 2. dynamic ready access memory

DRC—1. data-retention chassis 2. Disciplinary Review Committee

DRCF—dose-rate conversion factor

DRD—deep-rock disposal

DRE—destruction and removal efficiency

DRM—depositional remanent magnetization

DRP—deliverable reimbursable product

DRTF—Distributed Receiver Test Facility

DRU—dynamic reference unit

DS—1. development specification 2. direct support 3. development schedule 4. door switch 5. doublesided 6. Department Supervisor

DSA—1. dual stronglink assembly 2. direct support activity

DSAC—deterministic severe accident criteria

DSARC—Defense System Acquisition Review Council (obsolete; use Joint Requirements and Management Board)

DSAT—anti-satellite defense

DSB—1. Defense Science Board 2. double sideband (modulation)

DSC—1. differential scanning calorimetry 2. direct satellite communication

DSCA—differential strain curve analysis

DSCS—Defense Satellite Communications System

DSD—data security device

DSDP—Deep-Sea Drilling Project

DSE—distributed system environment

DSG—downhole steam generator

DSGS—direct support/general support

DSI—Decision Sciences Institute

DSID—disposable seismic intrusion detector

DSK—disk

DSL—direct-strike lightning

DSLA—dual stronglink assembly

DSM—data stream multiplexer

DSN—Defense Switched Network

DSP—1. Doctoral Study Program (SNL) 2. Defense Support Program 3. digital signal processing (or processor)

DSRD—data systems research and development

DSS—1. decision support systems 2. double shell slurry 3. designated seismic station

DSSF—double shell slurry feed

DSSL—detonator safing stronglink

DST—double shell tank

DSV—defense suppression vehicle

DSVS—deployable seismic verification system

DSW—Director of Special Weapons

DSX—digital signal crossconnect

DT—1. diffraction tomography 2. dedicated target

D-T—deuterium-tritium

DTA—1. differential thermal analysis 2. dynamic testing agency 3. designated travel agency

DTC—desktop casting

DT²C³—Director of Theater and Tactical Command, Control, and Communications (Office of the Secretary of Defense)

DTD—1. document type definition 2. data transport device 3. data transfer (or transport) device

DTDB—digital terrain database

DTE—data terminal equipment

DTED—digital terrain elevation data

DTER—drawing transfer engineering release

DTIC—Defense Technical Information Center

DTL—diode transistor logic

DTMF—dual-tone modulated frequency

DT/OT—development test/operation test

DTP—1. desktop publishing 2. diversified telephone portfolio

DTR—delivery to reclamation

DTR90—taut wire sensor (one wire)

DTR2000—taut wire sensor (two parallel wires)

DTRG—dry-tuned motor gyroscope

DTU—data transfer unit

DTUC—data transfer unit cartridge

DTV—device transport vehicle

DTVB—digital television backup

DTVE—digital television element

DTWI—DOE transuranic waste integration

DU—distribution unit

DUU—deliberate unauthorized use

DV—data are valid

D&V—demonstration and validation

DVA—direct viscosification agent

DVM—digital voltmeter

DVPS—digital voice processing system

DW—development warhead

DWCS—digital wireless control system

dwg—drawing

DWPF—Defense Waste Processing Facility

DWS—digital weapon simulator

DWV—dielectric withstanding voltage

DWVA—differential waveform analysis

DXT—depth times thickness

Dy—dysprosium (chemical symbol)

DYMAC—dynamic material control

dyn—dyne (a unit of force in the centimeter-gram-second system; use *newtons* instead)

E

E- —exa- (a prefix)

EA—1. environmental assessment 2. emergency action 3. employee awards

EAC—Energy Advisory Committee

EACI—Environmental Air Control, Inc.

EACLOC—electron-alkali (atom) close coupling (computers)

EACT—Emergency Action and Coordination Team

EADAS—engineering and administrative data acquisition system

EAM—1. emergency action message 2. embedded atom method

EAP—1. Employee Assistance Program 2. emergency-action procedures

EAPRO—EAP referral option

EAR—environmental assessment report

EAROM—electrically alterable read-only memory

EAS—employee accounting system

EASI to EDM

EASI—estimate of adversary sequence interruption

EB—exploding bridge

EBAM—electron-beam addressable memory

EBC—Employee Benefits Committee

EBCDIC—extended binary-coded decimal-interchange code (computers)

EBCE—electron-beams control electronics

EBFA—electron-beam fusion accelerator

EBIC—electron-beam-induced current

EBIS—electron-beam ion source

EBM—electron-beam machining

EBR—1. electron-beam recording 2. experimental breeder reactor

EBRC—Equipment Budget Review Committee

EBW—exploding bridgewire

EBWR—experimental boiling-water reactor

EC—1. environmental chamber 2. European Community 3. exceptional contributor

ECA—electrical component assembly

ECAD—electronic computer-aided design

ECAP—European Conflict Analysis Project

ECB—electronic code book

ECC—1. emergency cardiac care 2. emergency core coolant (or cooling)

ECCM—electronic counter-countermeasures

ECCN—export commodity control number

ECCS—emergency core-cooling system

ECD—electron-capture detector (explosives)

ECF—1. Entry Control Facility 2. extracellular fluid 3. Explosive Components Facility

ECI—export controlled information

ECL—1. emitter-coupled logic 2. Execution Control Language 3. environmental checklist

ECLO—emitter-coupled logic operator

ECM—1. electronic countermeasure 2. electrochemical machining 3. environmentally conscious manufacturing

ECM 'C—enhanced crisis management capability

eco—electron-coupled oscillator

ECO—export controlled operations

ECOTRAC—ecology tracking

ECP—1. engineering change proposal 2. employee contribution plan 3. entry control point

ECR—1. engineering change request 2. electron cyclotron resonance 3. emergency conference room

ECS—1. environmental control system 2. emergency cooling system

ECSW—extended channel status word

ECTL—emitter-coupled transistor logic

ECTU—electrical compatibility test unit

ECU—environmental control (or conditioning) unit

ECUT—energy conversion and utilization technologies

ED—1. engineering and development 2. explosive destruction 3. emergency destruction 4. external device

EDAX—energy defensive analysis with x rays

EDC—Employee Development Center

EDE—effective dose equivalent

EDF—Environmental Defense Fund

EDLN—edge and line (weights)

EDM—1. electron discharge machine 2. electrical discharge machining

EDMA—electronic design and manufacturing automation

EDNA—externally driven nuclear assembly

EDOC—error detection or correction

EDP—electronic data processing

EDPE—electronic data-processing equipment

EDPM—electronic data-processing machine

EDPS—electronic data-processing system

EDS—1. energy dispersive spectroscopy
2. emergency disablement system
3. electronic disk storage 4. explosives detection system 5. earth data system
6. event data set

EDU—error detection unit

EDW—environmental development warhead

EDX—exoatmospheric discrimination experiment

EE—engineering evaluation

E&E—energy and environment

EEC—1. European economic community

EED—end event data 2. electroexplosive device

EEFI—essential elements of friendly information

EEG—electroencephalograph

EEO—Equal Employment Opportunity

EEO/AA—Equal Employment Opportunity/
Affirmative Action

EEOC—Equal Employment Opportunity
Commission

EEPROM—electrically erasable, programmable,
read-only memory (see *EPROM*)

EER—1. engineering evaluation reactor
2. engineering evaluation release

EERC—Energy and Environmental Research Center

EEROM—electrically erasable read-only memory

EES—electric energy systems

EEV—employee expense voucher

ef—E-field (fence)

EFC—electronic filmless camera

eff—efficiency

EFF—electric field fence

EFI—exploding foil initiator

EFMS—electronic forms management system

EFP—explosively formed projectiles

EFT—1. electronic fund transfer 2. electronic file transfer

EFTS—electronic fund transfer system

e.g.—*exempli gratia* (for example)

EGA—enhanced graphic adapter

EG&G—Edgerton, Germeshausen, and Grier, Inc.
(DOE contractor)

EGR—energy gamma rays

EGS—engineering graphics system

EH—environment and health

EHD—electrohydrodynamics

EHEMP—enhanced, high-altitude electromagnetic pulse

EHF—extremely high frequency (*UHF is preferred*)

EHS—extremely hazardous substance

EHV—extremely high voltage (*UHV is preferred*)

EIA—1. Electronic Industries Association 2. Energy
Information Administration (DOE)

EIC—Environmental Information Center

EIG—Electronic Installation Group

EIS to EOD

EIS—1. Environmental Impact Statement

2. engineering information system 3. export information system

EIVR—exchange of information by visits and reports

EIVS—experimental inventory verification system

EKG—electrocardiograph (or electrocardiogram)

EL—1. erector launcher 2. Environment Laboratory

ELC—erector-launcher car

ELF or **elf**—extremely low frequency

ELI—early litigation qualification

ELINT—1. electromagnetic intelligence
2. electronic intelligence

ELKE—elevated kinetic-energy (weapon)

ELS—1. enhanced line security 2. explosive light source

EM—1. electromagnetic 2. Energy Measurements, Inc. (subsidiary of EG&G) 3. environmental monitoring

EMC—electromagnetic compatibility

EMCC—1. Electromagnetic Code Consortium
2. Emergency Management Coordination Committee

EMEA—electronic mail enabled application

EMES—electromagnetic environment simulator

EMF or **emf**—1. electromagnetic force (or field)
2. electromotive force

EMFG—explosive magnetic flux generator

EMG—explosive Marx generator

EMI—electromagnetic interference

EMINS—Emergency Management Information System

EML—1. equipment maintenance log
2. electromagnetic launcher

EMMS—electromagnetic measurements system

EM&NR—energy, minerals, and natural resources

EMP—1. electromagnetic pulse 2. enrichment monitor processor 3. electron microprobe

EMR—electromagnetic radiation

EMS—1. emergency management system
2. emergency medical service

EMSL—Environmental Monitoring Systems Laboratory

EMT—1. emergency medical technician 2. Executive Management Team

emu or **EMU**—electromagnetic unit

EMX—electromagnetic X

ENDF—evaluated nuclear data file

ENDS—1. Enduring NUDET Detection System
2. enhanced nuclear detonation safety

ENET—Ethernet

ENNE—Enterprise Network Excellence

ENG—electronic newsgathering

ENNK—endoatmospheric nonnuclear kill

ENR—energy neutrons

ENS—emergency notification system

ENSCE—enemy situation correlation element

EnviroTRADE—Environmental Technologies for Remedial Actions Data Exchange

e/o—enrichment percent

EO—1. equal opportunity 2. environmental operations

EOA—end of address

EOC—Emergency Operations Center

EOD—1. explosives ordnance disposal 2. erasable optical disk

EOF—end of file

EOM—1. end of message 2. end of month

EON—External Open Network

EOP—experimental operating procedure

EOR—enhanced oil recovery

EOS—1. equation of state 2. Earth Observation System 3. earth-observing satellite 4. equal opportunity specialist

EOSAT—Earth Observation Satellite

EOSP—electrooptic signal processor

EP—1. earth penetrator 2. engineering procedure 3. environment protection

EPA—1. Environmental Protection Agency 2. electrical penetration assembly 3. Equal Pay Act

EPAC—Educational Programs Activity Committee

EPC—early Pentagon capability

EPCA—Energy Policy and Conservation Act

EPD—engineering production document

EPI—electronic position indicator

EPIC—El Paso International Center (Fort Bliss, Texas)

EPICURE—experimental physics interactive controls user resource enhancement

EPLD—erasable programmable logic devices

EPMS—enhanced property management system

EPOCH—electron propagation on channels

EP&P—electronic publishing and printing

EPR—1. ethylene-propylene rubber 2. electron paramagnetic resonance 3. experimental power reactor 4. employee placement report

EPRD—end product

EPRI—Electric Power Research Institute

EPROM—erasable (or electrically) programmable read-only memory (see *EEPROM*)

EPSF—encapsulated postscript format

EPW—earth-penetrating weapon

EPZ—emergency planning zone

Eq—equation (used only before a number); plural is *Eqs*

EQ—equipment qualification

EQFD—enhanced quality function deployment

EQIP—equipment qualification inspection program

equiv—1. equivalent 2. equivalency

ER—1. engineering release 2. environmental restoration 3. energy research 4. enhanced radiation

ERA—1. electron ring accelerator 2. Economic Regulatory Administration (DOE)

ERAD—explosive release atmospheric dispersion

ERADCOM—Electronics Research and Development Command (Army)

ERB—1. Energy Resources Board 2. exclusion region barrier

ERC—Engineering Research Center

ERD—emergency response director

ER&D—exploratory research and development

ERDA—Energy Research and Development Administration (previously *AEC* and now *DOE*)

ER&E—Exxon Research and Engineering

erf—error function

erfc—error function (complement of)

ergs—erg-second (obsolete; use *joules*)

ERIS—exoatmospheric reentry intercept system

ERISA to ETIS

ERISA—Employee Retirement Income and Security Act

EROM—erasable read-only memory

ERP—1. equipment requirement program
2. effective radiated power

ERPG—emergency response planning guideline

ERS—equipment requirement schedule

ERU—equipment replaceable unit

ER&WM or **ER/WM**—environmental restoration and waste management

ES—expert system

ESA—1. engineering science assistant 2. electronic safing and arming

ESAAB—Energy Systems Acquisitions Advisory Board

ESAD—electronic safing, arming, and detonation

ESARDA—European Safeguards and Research Development Association

ESAF—electronic safe arm fire

ESAISA—explosive safety internal self-assessment

ESC—Electrical Safety Committee

ESCA—electron spectroscopy for chemical analyses

ESCS—emergency satellite communications system

e.s.d.—estimated standard deviation

ESD—1. environmental sensing device
2. electrostatic discharge
3. electron-simulated desorption

ESF—1. Exploratory Studies Facility 2. exploratory shaft facilities

ES&H—environment, safety, and health

ESI—extremely sensitive information

ESIE—extended SATKA integrated experiment

ESIU—ejector-store interface unit

ESM—environmental sensor (or status) monitor

ESNA—European Society of Nuclear Methods in Agriculture

ESOP—Employee Stock Ownership Plan

ESR—1. electron spin resonance 2. early storage reserve 3. electroslag remelting

ESS—1. engineering safeguards system
2. electronic switching system 3. engagement simulation system

ESSA—electronically switched spherical array

ESSG—environmental-sensing signal generator

E&ST—employment and suitability test

ESTSC—Energy Science and Technology Software Center (Oak Ridge, TN)

ESTS—electronic systems test set

esu—electrostatic unit

ESU—energy storage unit

ET—European (Warning) Terminal

ETA—estimated time of arrival

et al.—*et alii* (and others)

ETAS—elevated target acquisition system

etc.—*et cetera* (and so forth)

ETC—electrothermal/chemical

E/TE—experiment/test engineers

ETF—1. experimental test facility 2. engine test facility

ETHZ—translation: Swiss Federal Technical University in Zurich

ETI—early transient incapacitation

ETIS—elapsed time indicator system

ETL/ISG—Engineer Topographic Laboratories/
Intelligent System Group

ETR—electrothermal response

ETS—1. energy transfer system 2. electronic
translator system

ETU—1. early training unit 2. environmental test
unit

ETV—educational television

eu—entropy unit

e.u.—electron unit

EUCOM—European Command (US)

EUDED—Army Corps of Engineers, European
Division

EUNIE—European nuclear interface unit

EURATOM—European Atomic Energy Community

EUVL—extreme ultraviolet lithography

eV—electron volt

EV—electric vehicle

EVE—exemplary volunteer effort

EVM—electronic voltmeter (formerly called *VTVM*:
vacuum tube voltmeter; only used now in referring
to equipment)

EW—1. European Warning 2. electronic warfare

EW0—1. electronics warfare officer 2. Emergency
War Order

EWP—Emergency War Plan

EWS—early warning system

EWT—emitter wrapthrough

EX—exemption request

EXCOMS—Executive Communications System

exp—1. exponent 2. exponential

expt—experiment

EXR—energy X-rays

EZU—extended zone unit

F

f—femto- (a prefix indicating 10^{-15})

f/16—aperture ratio 16

°F—degree Fahrenheit

F—1. farad (electric capacitance) 2. fermi (length
equal to 10^{-15} meter) 3. fluorine 4. fuze

fa—femtoampere

FA—1. field artillery 2. forward area 3. failure
analysis 4. funds advance

FAA—Federal Aviation Administration

FAASV—field artillery ammunition supply vehicle

FAC—1. fast-acting closure 2. facility

FACET—a computer program for model-smoothing

FACOM—Field Artillery Command

FACS—future armored combat system

FACT—1. fully automatic compiler-translator
2. Facility for Calibration and Test (Coyote Canyon)

FAD—fuzing and arming device

FADE—focus, analyze, develop, and execute

FADS—force administration data system

FAE—fuel air explosive

FA&F—fuzing, arming, and firing

FAID—1. fuel assembly identification 2. fuel
assembly integrity devices

FAIS—Foreign Affairs Information System

FALCON—fission-activated laser concept

FAM—facility assessment methodology

FAMT to FENCER

FAMT—Facilities Asbestos Management Team

FAN-E—Flaming Arrow Network, Europe

FAO—Federal Agency Order

FAR—1. false-alarm rate 2. fly-away round
3. federal acquisition regulation

FARR—failsafe and risk reduction

FAS—Federation of American Scientists

FAST—1. Fourier amplitude sensitivity test
2. future artillery systems technology 3. Facilities Accelerated Systems Team

FASTCAST—delivers investment cast hardware

FAT—factory acceptance test

FATE—fuzing, arming, testing, and evaluation

fax or **FAX**—facsimile message

FBA—force-balance accelerometer

FBC—fluidized-bed combustion

FBI—Federal Bureau of Investigation

FBIA—force-balance integrating accelerometer

FBIS—Foreign Broadcast Information Service

FBM—fleet ballistic missile

FBR—fast breeder reactor

fc—1. flow chart 2. footcandle

FC—full contributor

FCA—functional configuration audit

fcc—face-centered cubic

FCC—1. Federal Communications Commission
2. Facilities Command Center (SNL)

FCCSET—Federal Coordinating Council for Science,
Engineering, and Technology

FCDC—flexible confined detonating card

FC/DNA—Field Command/Defense Nuclear Agency

FCI—fuel coolant interaction

FCL—fault current limiter

FCO—final change order

FCP—1. fuel cycle program (or plant) 2. Field
Command Post 3. forward control point
4. fluid coupled plate 5. flight computer program

FCR—facility customer representative

FCS—fire control system

FCSM—field command stockpile management

fcst—forecast

FCTI—fuel coolant thermal interaction

FDB—field distribution box

FDDI—fiber distributed data interface

fdm or **FDM**—frequency-division multiplexing (or
multiplexer)

FDM—fixed detection mode

FDS—fence disturbance sensor

Fe—iron (chemical symbol)

FE—1. ferroelectric 2. fossil energy
3. facility engineer 4. Facilities Express

FEB—functional electronic block

FEBA—forward edge of battle area

FECOM—Fast East Command

fed—1. federal 2. federated 3. federation

FEDS—forced entry deterrent system

FEMA—Federal Emergency Management Agency

FEMP—Fernald Environmental Management Project

FEMTRAN—radionuclide transport model

FENCER—NATO Code for Soviet bomber

FEP—front-end processor (computer terminology)

FERC—Federal Energy Regulatory Commission (DOE)

FERF—Fusion Engineering Reactor Facility

FES—1. flight environment sensor 2. facilities express

FESEM—forcible entry safeguards effectiveness model

FESOP—Facilities Engineering Standard Operating Procedures

FESS—front-end security system

FET—1. Ferroelectric transistor 2. field effect transistor

FEWS—follow-on early warning system

FFA—free fall airburst

FFCA—Federal Facilities Compliance Agreement

FFM—failed fuel mockup

FFP—firm fixed price

FFRDC—Federally Funded Research and Development Center

FFS—fast-flag sensor

FFT—fast Fourier transform

FFTF—Fast Flux Test Facility

FGD—flue gas desulfurization

FGIS—Facilities Geographic Information System

FI—*Ferrovie Italiane*

FIBITE—fault isolation built-in test

FIC—1. Financial Information Center 2. frequency interference control

FIDS—facility intrusion detection system

FIDU or **fidu**—fiducial

FIFA—fissions per initial fissile atom

FIFO—first-in, first-out (for inventory; also used in the computer field as a method of retrieving items)

FIFRA—Federal Insecticides, Fungicide, and Rodenticide Act

Fig.—figure (avoid abbreviation; best to spell out)

FIG—fast ion gauge

FIMA—fissions per initial metal atom

FIPS—Federal Information Processing Standards

FIR—far-infrared (laser)

FIRL—Franklin Institute Research Laboratory

FIS—1. financial information system
2. fluoroimmuno sensor

FITS—fully instrumented test site

FKE—fracturable keying elements

f—fluid

fL—footlambert (sometimes written *ftL*)

FLAVLES—flight analysis by a weighted least-squares (technique)

FLC—Federal Laboratory Consortium

FLEA—flux logic element array

FLECHT—full-length emergency core heat transfer

FLIR—forward-looking infrared

FLOSIM—Flow Simulation (a computer code)

FLOT—forward line of own troops

FLSC—flexible linear-shaped charges

FLTSATCOM—Fleet Satellite Communications

fm—femtometer (also used as fermi)

FM—1. frequency modulation 2. ferromagnetic
3. fully meets 4. function manager
5. Field Manual

FMCS to FRERP

FMCS—Federal Mediation and Conciliation Service

FMD—fuel motion detection

FMDF—fixed-mirror distributed focus

FMEA—failure mode and effect analysis

FMEF—fuels and materials examination facility

FMHR—field material-handling robot

FMLA—Family Medical Leave Act

FMS—1. forms management system 2. financial management service 3. flexible manufacturing system 4. foreign military sales

FMSC—fixed-mirror solar concentrator

fnp—fusion point (nuclear technology)

FO—fiber optics

FOB—free on board

FOC—full (or final) operational capability

FOCI—foreign ownership, control, or influence

FODOCS—feasibility of disposal of contaminated soil

FOG—Future Options Group (SNL)

FOGMor FOG-M—fiber-optic guided missile

FOIA—Freedom of Information Act

FONSI—finding of no significant impact

FOR—field of regard

FORSCOM—Forces Command (Army)

FORTTRAN—Formula Translator (a computer language)

FOS—fiber optic sensor

FOSDIC—film optical scanning device for input to computers

FOT—follow-on operational test

FOTL—follow-on to Lance

FOV—field of view

fp—freezing point

FPA—1. floating point accelerator 2. Federal Preparedness Agency

FPD—flame photometric detector

FPDR—first production drawing release

FPFF—full power, full frequency

FPGA—field programmable gate array

FPMR—Federal Property Management Regulation

FPP—1. financial preprocessor 2. floating point processor

fps—1. frames per second 2. feet per second; preferred use: *ft/s*

FPS—fence protection system

FPU—first production unit

FQR—field quality representative

FR—France

FRA—Federal Railroad Administration

FRAM—ferroelectric random-access memory

FRAS—fission gas release and swelling (computers)

FRB—fast rise-time breakdown

FR/CP—functional representatives and counterparts

FRD—formerly restricted data

FREADM—fast reactor excursion and accident dynamics model (computers)

FREC—fuel-ringed external cavity

FRED—faceted region editor

freq—frequency

FRERP—Federal Radiological Emergency Response Plan

FRG —Federal Republic of Germany	FSSG —Force Service Support Group
FRMAC —Federal Radiological Monitoring and Assessment Center	FSU —Former Soviet Union
FROICA —First Republic of Korean Army (translation)	ft —foot or feet
FRP —fire-resistant pit	FT —1. frame transfer 2. Fourier transform
fs —femtosecond	FTE —full-time equivalent
FS —1. firing set 2. fuming sulphuric (smoke agent)	FTF —Falcon Test Facility
F&S —Fenix and Scission, Inc.	FTIR —Fourier transform infrared (spectroscopy)
FSA —1. fuel sphere assembly 2. firing system assembly 3. forward staging area 4. forward support assembly	FTIS —financial transaction interface system
FSAC —Facilities Safety Appraisal Committee	ftL —see <i>fL</i>
FSAR —Final Safety Analysis Report	ft-lbf —foot pound force
FSC —Federal Supply Classification	FTM —flight test missile
FSCC —File Support Coordination Center	ft/min —feet per minute
FSD —full-scale development	ft³/min —cubic feet per minute (This form is preferred over liters per second: L/s)
FSE —fire-support element	FTOS —flight-termination ordnance system
FSG —Federal Supply Group	FTP —file transfer protocol
FSK —frequency-shift keying (see PSK)	ft-pdl —foot poundal
FSL —1. Flight Simulator Laboratory 2. Formal Semantics Language (a computer language) 3. field storage location	FTPA —Field Task Proposal Agreement; see <i>WPAS</i>
FSM —1. fail-safe memory 2. financial systems migration	FTPS —financial transaction processing system
FSMB —Financial System Management Board	FTQ —flight test qualification
FSN —1. federal stock number 2. Foreign Service National	FTR —fast test reactor in FFTF
FSP —Foreign Service Post	FTS —Federal Telecommunication System
FSPS —free-standing plasma-sprayed	ft/s —feet per second; also <i>fps</i>
FSR —functional security requirement	ft³/s —cubic feet per second
FSS —federal supply schedule	FTSC —fault tolerance spaceborne computer
	FTU —flight test unit
	FU —Finsen unit (electromagnetics)
	FUFO —FUII fuzing option

FUSRAP to GDH

FUSRAP—Formerly Utilized Sites Remedial Action Program

fV—femtovolt

FW/BCR—feed withdrawal/building control room

FWCC—fine-weave carbon-carbon

fwd—forward

FWDR—Final Weapon Development Report

FWHM—full width, half maximum

FWP—field work proposal

FWPF—fine-weave pierced fabric

FY—fiscal year

FYDP—Five Year Defense Program

FYI—for your information

FYPP—Five Year Program Plan

G

g—1. gram (sometimes *gm*, but *g* is preferred)
2. acceleration due to gravity

G—1. gain 2. giga- (prefix indicating 10^9)

ga—gauge

GA—1. gun assembled 2. genetic algorithms

G&A—general and administrative

GaA—gallium arsenide

GACC—ground attack control capability

GADRAS—gamma detector response and analysis software

GAF—German Air Force (Luftwaffe)

G/AIT—ground/airborne integrated terminal

gal—gallon

gal/min—gallons per minute

GAMA—generation and maintenance area

GAO—General Accounting Office

GAPP—Global Atmospheric Research Program

GAS—Global Antenna System

GATERS—ground-to-air telerobotic system

GAWR—graphic arts work request (obsolete; now referred to as service order request: SOR)

GBARC—Great Britain Aeronautical Research Council

GBEE—Governor's Business Executives for Education

GBI—ground-based interceptor

GBR-X—ground-based radar experiment

Gbyte—gigabyte

G&C—guidance and control

GCD—greater confinement disposal

GCEP—gas centrifuge enrichment plant

GCFBR—gas-cooled fast breeder reactor

GC/FPD—gas chromatograph/flame photometric detector

GCM—global circulation model

GC/MS—gas chromatographic/mass spectrometer

GCN—Global Communications Network

GCRP—global change research program

Gc/s—gigacycles per second (obsolete; use *GHz*)

GCS—general communication system

GD/C—General Dynamics/Convair (obsolete; now Lockheed)

GDE—geologic disposal evaluation

GDH—global data handler

GDO—geothermal drilling organization

GDP—GNT data processor

GDS—general declassification schedule

GDT—ground data terminal

GE—General Electric

GEM—generator, electronic marker

GENDD—General Electric Neutron Device
Department (a DOE contractor; now the Pinellas
Plant)

GENSER—general service

GEONDS—Ground EMP Optical NUDET (nuclear
detonation) System

GEOTEMP—geological temperature (a computer
model)

GEP—1. ground entry point 2. Graduate Education
Program

GESMO—generic environmental statement on mixed
oxide

GESS—generator exhaust signature suppressor

GETS—Group Emergency Telephone System

GeV—gigaelectron volt

GFCI—ground fault circuit interrupted

GFE—government-furnished equipment

GFI—ground fault interrupter

GFS—government-furnished software

Gg—gigagram

GG—GNT gateway

G&G—geophysical and geodetic

GHQ—General Headquarters

GHz—gigahertz

Gi—gilbert

GIDEP—government-industry data exchange
program

GIE—ground interface electronics

GIF—1. Gamma Irradiation Facility 2. guaranteed
interest fund

GIGO—garbage in, garbage out

GIP—geotechnical instrumentation package

GIS—1. gas-insulated substation 2. geographic
information system

GISP—geotechnically instrumented seafloor probe

GISSP—geotechnical in situ strength probe

GLCM—ground-launched cruise missile

GLONASS—Global Navigation Satellite System
(Soviet Union)

gm—gram (it is preferable to use g)

g/m³—grams per meter cubed

GM—1. General Motors 2. geometry modeling

GMB—glass microballoon

GMCP—ground maintenance computer program

GMT—Greenwich mean time

gmv—gram-molecular volume

GNR—general nuclear release (or response)

GNS—Global Navigation System

GNT—ground NUDET terminal

GO—government obligations

GOCO—government-owned, contractor-operated
(DOE)

GOES—geostationary operational environmental
satellite

GOP—general output

GOSIP—Government Open Systems Interconnect
Profile

GOSSAT to GWEN

GOSSAT—Group on Soviet Science and Technology

GOX—gaseous oxygen

GP—general purpose

GPa—gigapascal

GPA—grade point average

GPBTO—general-purpose barbed tape obstacle

GPC—1. gas permeation chromatography 2. giant piston core

GPE—1. general purpose equipment 2. general plant equipment

GPIB—general purpose instrumentation bus

GPO—Government Printing Office

GPP—1. General Plant Project 2. general-purpose plant

GPR—ground-penetrating radar

GPS—1. global positioning system 2. global positioning satellite

gr—1. grain 2. gross

GRADIN—gradient inverse

GRASER—gamma-ray laser

GRASS—gas release and swelling subroutine (computers)

GRI—Gas Research Institute

GRINSH—graded index separate-confinement heterostructure

GRIS—gamma-ray imaging system (or spectrometer)

GRO—gamma-ray observatory

GRS—1. global receiver system 2. general records schedule

GRU—translation: Soviet Intelligence Directorate of the General Staff

GS—geological survey

GSA—General Services Administration (Agency of the Federal Government)

GSAC—gas-sealing auxiliary closure

GSE—1. ground support equipment 2. group of scientific experts

GSF—Goelectric Simulation Facility

GSFC—Goddard Space Flight Center

GSSE—ground system support engineer

G/T—Ratio of Gain to (Noise) Temperature

GTA—gas tungsten arc

gtd—guaranteed

GTE—General Telegraph and Electric (Company)

GTM—ground test missile

GTR—Government Travel Requisition

GTS—1. guidance test set 2. ground test missile 3. gas transfer system

GTSN—global telemetered seismographic network

GTU—ground test unit

GTUF—G-tunnel underground facility

GUI—graphics (or graphical) user interface

GUIDAR—guided intrusion detection and ranging

GUILD—government, university, industry, laboratory development

GV—ganged valve

GVI—graphic users interface

G/VLLD—ground/vehicular laser locator designator

GVLS—global verification locating system

gw—ground water; also *groundwater*

GW—gigawatt

GWEN—Ground Wave Emergency Network

GWOA—guerilla warfare operation area

GWS—General War System

Gy—gray (unit of radiation dosage)

GZ—ground zero (nuclear detonation)

H

h-—hecto- (prefix indicating 10^2)

h—hour (also *hr*)

H—1. henry (electric inductance) 2. horizontal

ha—hectare

HAA—heterogeneous aerosol agglomeration (computers)

HABE—high altitude balloon experiment

HAC—heliostat array control

HACV—heavy armored combat vehicle

HAD—hazard assessment document

HAF—high-altitude fuze

HAI—hazard assessment information

HAMOC—hammer analysis method of characteristics (computers)

HARC—helicopter accident-resistant container

HARP—1. hazard assessment of rocket propellants
2. high altitude research project

HAS—hardened aircraft shelter (see PAS)

hav—haversine

HAW—hypersonic aerodynamic weapons

HAWT—horizontal-axis wind turbine

HAZ—heat-affected zone

HAZMAT—hazardous material

HAZOP—hazard and operability

HAZWRAP—hazardous waste remedial action program

HC—1. hexachloroethane (screening smoke)
2. honeycomb

HCC—1. Headquarters Communications Center
2. Headquarters Command Center (SNL)

HCDA—hypothetical core disruptive accident

HCF—Hot Cell Facility

HCl—hydrochloric acid

HCM—high-current mode

hcp—hexagonal close-packed

HCSA—health care spending account

HD—high density

HDC—Headquarters Data Center

HDL—Harry Diamond Laboratories (Adelphi, MD)

HDR—hot dry run

HDS—hydrodesulfurization

HDTV—high-definition television

HDW—Hanford defense waste

HDX—half-duplex (circuits)

HE—high explosive

HECTR—hydrogen event containment transient response

HED—high-energy density

HEDI—high endoatmospheric defense interceptor

HEDL—Hanford Engineering Development Laboratory (Washington)

HEED—high energy electron diffraction

HEEF—a boundary element solution

HEGF—high energy gas fracturing

HEL to HNAB

HEL—Human Engineering Laboratory

HELIA—high energy, line-induction accelerator

HELIOS—computer analytic code in heliostat technology

HELP—high energy laser program

HEM—homogeneous equilibrium model (a computer subroutine)

HEMP—high altitude electromagnetic pulse

HEP—human error probability

HEPA—high efficiency particulate aerosol

HERC—heavy equipment remote control

HERL—Health Effects Research Laboratory

HERMES—high energy radiation megavolt electron source

HERO—hazards of electromagnetic radiation to ordnance

HETT—high explosive transit time

HEU—highly enriched uranium

hex—1. hexagonal 2. hexadecimal

hf or **HF**—high frequency

HF—hydrogen fluoride

hfd—high frequency direction finder

HFIR—high flux isotope reactor

hfs—hyperfine structure

HFSE—high frequency seismic element

H-gear—handling gear

HGV—hypersonic glide vehicle

HHC—high heat capacity

HHFCDP—high heat flux component development program

HIACA—high-intensity adjustable cobalt array

HIP—howitzer improvement program

HIPORS—high power radiation source

HIPPI—high performance parallel interface

HIRCIS—high resolution capacitive imaging sensor

HIS—Honeywell Information System

HISAC—high speed airdrop container (system)

HITAF—high temperature advanced furnace (DOE)

HIT-SAR—Highway Transportation—Safety Analysis Report

HJ—Honest John (a missile)

HK—Hefner candle (optics)

HLG—High Level Group (NATO Nuclear Issues Group)

HLGPT—high level, general-process trash

HLLW—high level liquid waste

HLOC—Hispanic Leadership and Outreach Committee

HLOS—horizontal line of sight

HLW—high level waste

HMC—hybrid microcircuit

HML—hard mobile launcher

HMMWV—high mobility, multipurpose wheeled vehicle

HMO—Health Maintenance Organization

HMPE—high modulus polyethylene

HMTA—Hazardous Materials Transportation Act

HMX—high melting explosive

H&N—Holmes and Narver, Inc. (contractor to DOE)

HNAB—hexanitroazobenzene (explosive)

HNL —Holified National Laboratory	HRA —health risk appraisal
HNS —hexanitrostilbene (explosive)	HR/AR —high reflectance/antireflectance
Ho —holmium (chemical symbol)	HRD —1. human resources development 2. heavy replica decay
HOB —height of burst	HRIS —Human Resources Information System
HOE —homing overlay experiment	HRM —health risk management
HOFS —hybrid optical firing set	HRS —heat rejection system
HOIS —hostile intelligence service	HRTEM —high-resolution transmission electron microscopy
HOP —high-oxygen pressure	HSB —Human Studies Board (SNL) (frequently called an Institutional Review Board at other institutions)
HOPE —hypothetical overpower excursion (computers)	HSL —hue, saturation, lightness
HOTPIM —hydrodynamics or two-phase internal mixture (computers)	HSMCDR —high-speed multichannel data recorder
hp —horsepower	HSR —helical screw rheometer
HP —1. health physics 2. Hewlett-Packard	HSS —hazard separation system
HPCC —high performance computing and communication	HSST —house science, space, and technology
HPFL —High-Performance Fuel Laboratory	HSTF —Heated Screen Test Facility
HPI —hazard potential index	HSWA —Hazardous and Solid Waste Amendment
HPM —high-power microwave	ht —height
HPOF —high-pressure oil-filled	HTGC —high-temperature gas cleanup
HPRF —high power radio frequency	HTGR —high-temperature, gas-cooled reactor
HPSS —high performance storage system	HTIR —high-temperature insulation resistance
HPT —high-potential tester	HTK —hard to kill
H, P, T, & E —hand, power, thermal, and explosives (attack tools)	HTLD —High-Technology Light Division (Ft. Lewis)
HQ —Headquarters	HTRB —high-temperature reverse bias
HQDA —Headquarters, Department of the Army	HTS —high-temperature superconductor
HQSAR —Headquarters, Strategic Air Command	HTTT —high-temperature turbine technology
hr or h —hour	HUD —Department of Housing and Urban Development (US)
HR —1. human resources 2. heavy replica	

HUMINT to ICCD

HUMINT—human intelligence

hv or HV—high voltage

HVA—high-velocity accelerator

HVAC—heating, ventilating, and cooling

HVB—high-voltage breakdown

HVL—hypervelocity launcher

HVP—hypervelocity projectile

HVPS—high-voltage power supply

HVTS—head and video transmission subsystem

H/W—hazardous waste

HWC—hardware component

HWCI—Hardware Configuration Team

HWG—Hydrodynamic Group

HWMF—Hazardous Waste Management Facility

HWR—heavy water reactor

HWS—Hartmann wavefront sensing

HWT—hypersonic wind tunnel

HYDAC—1. hybrid dynamic (material) control
2. hybrid digital-to-analog converter

Hz—hertz (unit of frequency; also known as cycles)

Hz/s—hertz (or cycles) per second

I

IA—1. implosion assembled 2. interface adapter

IABTI—International Association of Bomb
Technicians and Investigators

IAC—image analysis chip

IACRO—interagency cost reimbursement order

IACS—International Annealed Copper Standard

IACSE—Interagency Advisory Committee on
Security Equipment

IADS—igloo access denial system (This system has
evolved into the weapon access delay system:
WADS.)

IAEA—International Atomic Energy Agency (Vienna,
Austria)

IAEP—International Assessment of Educational
Progress

IAI—Israel Aircraft Industries

IAM—International Association of Machinists
(SNL/CA)

IANUS—integrated analysis of nuclear systems
(computers)

IAS—1. Institute of Aerospace Sciences
2. item accounting system

IASTED—International Association of Science and
Technology for Development

IATA—International Air Traffic Association

IAW—in accordance with

ibid.—*ibidem* (in the same place)

IBM—1. intermediate-range ballistic missile, see
IRBM 2. International Business Machines, Inc.

IC—1. integrated circuit (or chip) 2. inductance-
capacitance 3. intracloud 4. integrated
contractor 5. internal combustion 6. Incident
Commander

I/C—injector/combustor

I&C—instrumentation and control

ICA—item-controlled area

ICADS—integrated correlation and display system

ICB—1. inter-connecting box 2. interface control
board

ICBM—intercontinental ballistic missile

ICCB—interconnecting cable and control box

ICCD—intensified charge-coupled device

ICCTT—International Consultative Committee for Telephone and Telegraph

ICD—interface control document (or drawing)

ICE—1. internal combustion engine 2. intelligence computing environment 3. interactive concurrent engineering 4. interactive collaborative environment

ICECO—implicit continuous eulerian containment code (computers)

ICECO-H—ICECO-hydrodynamic

ICECO-HT—ICECO-heat transfer

ICEPEL—ICECO piping and elbow (analysis)

ICF—1. insurance continuance fund 2. inertial confinement fusion

ICFAX—integrated circuit failure analysis expert (system)

ICFM—in-core fuel management

ICMG—Intelligence Community Modeling Group

ICO—integrated contractor order

ICO/FAO—integrated contractor order and federal agency order

ICP-MS—inductively coupled plasma mass spectrometry

ICPN—integrated combat procedures (nuclear)

ICPP—Idaho Chemical Processing Plant

ICRU—international commission on radiological units (and measurements)

ICS—1. intermittent control system 2. Intelligence Center School (Army) 3. integrated contractor system 4. inventory control system 5. inventory control system 6. Incident Command System

ICT—1. International Critical Tables 2. intercase transfer 3. interface control team

ICU—1. interconnecting unit 2. integrated control unit

ICV—1. inner containment vessel 2. intimate container vault

icw—interrupted continuous wave (e.g., Morse code)

ID—1. inside diameter 2. identification 3. image dissector

IDA—1. intrusion detection alarm 2. Institute for Defense Analysis

IDAS—integrated data acquisition system

IDD—integrated data denial (decryption)

IDE—1. interactive development environment 2. intrusion detection equipment

IDL—interdisciplinary laboratory

IDLH—imminent danger to life or health

IDMM—integrating digital multimeter (computerized measurement)

IDO—internal distribution only

IDP—1. integrated data processing 2. intrusion detection process

IDS—1. integrated diagram systems 2. information display system 3. intrusion detection system

IDSN—integrated digital services network

IDST—intrusion detection system technology

i.e.—*id est* (that is)

IE—inspection and enforcement

I&E—inspection and evaluation

IEA—International Energy Agency

IEC—International Electrochemical Commission

IECE—intersociety energy conversion engineering

IED—1. individual effectiveness development 2. improvised explosive device

IED/PEP—individual effectiveness development and performance enrichment program

IEDS to IMOG

IEDS—improvised explosive device sterilizer

IEEE—Institute of Electrical and Electronics Engineers, Inc.

IEG—independent evaluation group

IEIT—integrated engineering information technology

IEMATS—improved emergency message automatic transmission system

IEMP—internal electromagnetic pulse

IER—information engineering release

IESCS—internal/external security and C² systems

If or IF—intermediate frequency

IFA—ionization front accelerator

IFC—in-flight control

IFD—inflight disconnect (connector)

IFE—in-flight extraction

IFF—identification, friend or foe

IFI—in-flight insertion

IFM—1. interface memorandum 2. interfacial force microscope

IFR—ion-focused regime

IFRS—intelligent facial recognition system

IFS—integrated file system

IFV—infantry fighting vehicle

IG—1. inertia guard (sensor) 2. interconnecting group 3. Inspector General

IGB—inner-German border

IGES—1. initial graphic exchange standard 2. initial graphics exchange specification 3. interactive graphics exchange system

IGS—1. interior guard station 2. IONDS global segment

IGUA—International Guards Union of America

IGZ—indicated ground zero

IH—1. industrial hygiene 2. inert head

IHD—in-house dissertation

IHE—insensitive high explosive (see *CHE*)

IHG—in-house general (software)

IHS—1. isotopic heat source 2. in-house special (software)

IHTS—intermediate heat transport system

IHX—intermediate heat exchanger

IIF—interest income fund (formerly AT&T GIF)

IIR—interim IEMATS replacement

IIS—Interagency Information Study

ILC—Individualized Learning Center

ILF—infralow frequency

ILH—imploding linear hohlraum

ILLW—intermediate-level liquid waste

ILS—integrated logistics support

ILSP—Integrated Logistics Support Plan

ILT—inter-line transfer

ILW—intermediate-level waste

IMDI—integrated manufacturing design initiative

IMETS—integrated meteorological system

IMF—1. Improved Message Facility 2. Integrated Maintenance Facility

IMFWG—interagency metal forming working group

IMO—International Maritime Organization

IMOG—1. Interagency Mechanical Operations Group 2. Interagency Manufacturing Operations Group

IMP —1. intelligent mobile platform 2. integrated mission processing	INSAR —Integrated Nuclear Safety Analysis Report
IM/PMT —Information Management/Process Management Team	INSI —initial nuclear safety inspection
IMR —integrated management requirement	INSPEC —Information Services for Physics, Electronics, and Computing
IMRL —Integrated Materials Research Laboratory	INTEC —in-hours technical education courses
IMS —1. intrusion monitoring system 2. ion mobility spectrometer (or spectrometry) 3. image management system	INU —inertial navigation unit
IMTL —Integrated Manufacturing Technologies Laboratory	IO —intelligence officer
IMU —inertial measurement unit	I/O —input/output
in. —inch or inches	IOC —initial operational capability
In —indium (chemical symbol)	IOCD —initial operational capability date
IN —intelligence	IOCS —input/output control system
INAIGAP —indium aluminum gallium phosphide	IOIS —input/output interface system
INC —insertable nuclear component	IOM —inert operational missile
IND —improvised nuclear device	IONDS —integrated operational NUDET detection system
INE —inertial navigation element	IOS —1. Institute of Oceanographic Sciences 2. input/output subsystem
INEL/CAMAS —Idaho National Engineering Laboratory/Central Alarm Monitoring and Assessment System	IOSAFS —integrated optical safety, arming, and firing system
INEPT —insensitive nucleus enhancement by polarization	IP —1. integrated perimeter 2. initial production 3. integration project (or program) 4. interface processor
INF —intermediate-range nuclear force	IPA —Individual Performance Award
INMM —Institute of Nuclear Materials Management	IPARS —integrated procurement/accounts (payable and) receiving system
INOF —Integrated Nuclear Operations Facility	IPB —illustrated parts breakdown
INPO —Institute of Nuclear Power Operations	IPC —interprocess communication
INRAD —intrinsic radiation	IPD —implementation phase document
in./s —inches per second (use <i>ips</i> for wire and tape speeds)	IPF —image processing function
INS —1. inertial navigation system 2. Immigration and Naturalization Service	IPG —interproject group
	IPL —Information Processing Language (computers)

Iplan to ISHTE

Iplan—Implementation Plan

IPPPS—integrated perimeter physical protection system

IPR—in process of review

ips—inches per second (used for wire and tape speeds) (see *in./s*)

IPS—1. information procurement system
2. integrated procurement system

IPS/E—integrated procurement system/extended

IPS/R—integrated procurement system/replacement

IPST—initial production systems test

Ir—iridium (chemical symbol)

IR—1. infrared radiation 2. insulation resistance

IRA—1. impact ratio analysis 2. International Research Association

IRBM—intermediate-range ballistic missile (often called *IBM*)

IRBS—intermediate-range booster system

IRC—inspection record card

IR&D—1. industry research and development
2. internal research and development

IRE—1. Institute of Radio Engineers 2. IRE is a standard amplitude used in video measurements

IREP—integrated reliability evaluation program

IRIG—Inter-Range Instrumentation Group

IRIS—1. infrared intrusion sensor 2. intelligent robotics inspection system 3. imaging radicals intersecting with surfaces 4. Incorporated Research Institutions for Seismology

IRM—1. isothermal remanent magnetization
2. information resources management

IRMA—IR modeling and analysis

IRMS—integrated resource management system

IRN—Internal Restricted Network (SNL)

IROE—intelligent robot operating environment

IRQ—interrupt request

IRRV—intermediate-range reentry vehicle

IRS—interim recovery system

IRSSY—infrared signature system

IRT—inactive record transfer

IRU—item reporting units

IRV—interim reentry vehicle

IS—1. information systems 2. information service

I/S—inflation/spin-up

ISA—1. International Security Affairs
2. International Standard Atmosphere
3. inertial sensor assembly
4. industry standard architecture

ISACC—in-hours stand-alone computer courses

ISAS—integrated small artillery synthesis

ISAT—information systems advance team

ISB—independent sideband (modulation)

ISC—1. Instrument Sector Committee (subdivision of ANMC) 2. integrated systems checkout

ISD—interface sequence document

ISDN—Integrated Services Digital Network

ISE—1. ideas in science and electronics 2. ion selective electrode

ISEC—1. insider security 2. internal security

ISEM—insider safeguards effectiveness model

ISFSI—independent spent fuel storage installation

ISHM—International Society for Hybrid Microcircuits

ISHTE—in situ heat-transfer experiment

ISI—1. Internal Systems, Inc. 2. Integral Systems, Inc. 3. Institute for Scientific Information

ISIMU—ISHTE simulation

ISIS—1. integrated storm information system
2. integrated security information system

ISIT—intensified silicon intensified target

ISLR—integrated sidelobe ratio

ISLS—intent strong-link switch

ISN—Internal Secure Network (SNL)

ISO—1. International Standards Organization
2. International Security Operations

ISO OSI—ISO Open Systems Interconnect

ISOSHL—isotope shielding calculations (computers)

ISP—1. integrated simulator program
2. International Security Policy

ISPO—International Safeguards Project Office

ISR—1. interrupt service routine 2. international survey research

ISS—integrated security system

ISSN—international standard serial number

ISSW—International Symposium on Shock Waves

IST—1. integrated simulated testing 2. infrared search and track

ISTEA—Intermodal Surface Transportation Efficiency Act

ISTM—International Society for Testing Materials

ISTV—intra-site support transport vehicle

ISV—in situ vane

ISVP—individual small value purchase

IT—Italy

I&T—integration and testing

ITA—independent technical assessment

ITC—International Training Course

ITER—international thermonuclear experimental reactor

ITI—1. ion track instrument 2. incoming test and inspection

ITL—intent to launch

ITMS—ion trap mass spectrometer

ITOSS—intent trajectory operated signal source

ITP—international technology program

ITR—information technology resources

ITRI—Inhalation Toxicology Research Institute

ITS—integrated Tiger series

ITU—International Telecommunications Union

ITV—1. improved tow vehicle 2. instructional television

ITW&A—integrated tactical warning and assessment

ITW/AA—integrated tactical warning/attack assessment

IUQS—intent unique signal

IVAF—Independent Vulnerability Assessment Facility

IVAN—independent vulnerability analysis

IVHS—intelligent vehicle highway system

IVR—interactive voice response

IVSN—Initial Voice Switched Network (NATO)

IV&V—independent validation and verification

IWDR—interim weapon development report

IWG—Interface Working Group

IWRP—industrial waste reduction program

J

J—joule (work, energy, quantity of heat)

JA—job assignment

JAAF—Joint Action Armed Forces

JAAN—Joint Action of the Army and Navy

JAC—Joint Apprenticeship Committee (or Council)

JAD—joint application design

JAERI—Japanese Atomic Energy Research Institute

JAIEG—Joint Atomic Information Exchange Group

JANNAF—Joint Army, Navy, NASA, Air Force

JANUS—name of Nd glass laser system

JAWS—just another weld simulator

JAWTIG—Joint Atomic Weapon Technical
Information Group

JB—junction box

JBFSAW—Joint Board on Future Storage of Atomic
Weapons

JCL—control language commands for controlling job
flow

JCMPO—Joint Cruise Missile Project Office

JCS—Joint Chiefs of Staff (DoD)

JCSAN—JCS Alerting Network

jct—junction

J/deg—joule per degree

JDL—Joint Directors of Laboratories (DOE)

JDSSC—Joint Data Services Support Center

JEAC—Joint Electric Armaments Committee

JEDEC—Joint Electron Device Engineering Council

JEEP—Joint Emergency Evaluation Plan

JERI—Japan (Atomic) Energy Research Institute

JET—Joint European Tours

JEWC—Joint Electronic Warfare Center

JFET—junction field-effect transistors

JFTP—joint flight test plan

JI—Johnston Island

JIIC—junction-isolated integrated circuit

JINMM—Journal of the Institute of Nuclear Materials
Management

JINTACCS—Joint Interoperability for Tactical
Command and Control Systems

JIT—1. joint interface test 2. Just-in-Time

J/K—joule per kelvin

JMH—joint mission hardware

jmp—jump

JNACC—Joint Nuclear Accident Coordinating Center

JNWPS—Joint Nuclear Weapons Publication System

JOCG—Joint Ordnance Commanders Group

JOM—Journal of Minerals

JOPES—Joint Operation Planning and Execution
System

JOR—joint operational requirements

JOSS—Johnniac Open-Shop System (a time-sharing
computer language)

JOTS—joint operational telephone system

JOVIAL—Jules (Schwartz) Version of the
International Algorithmic Language (computers)

JOWOG—Joint Working Group (US/UK bilateral
defense agreement)

JPL—Jet Propulsion Laboratory

JPMO—Joint Program Management Office

JRADS—Joint Response Assessment Data System

JRC—Joint Research Center (Ispra, Italy)

JRMB—Joint Requirements and Management Board
(formerly *DSARC*)

JRSC—jam-resistant secure communications

JRSWG—Joint Reentry Systems Working Group
(US/UK)

J-SIIDS—Joint Services Interior Intrusion Detection
System

JSP—jacketed soft point

JSR—jump to subroutine

JSSIN—Joint Staff System Information Network

JSSIS—Joint Staff Support Information System

JSSP—Joint Stockpile Sampling Program

JSTPS—Joint Strategic Target Planning Staff

JTA—joint test assembly

JTACMS—Joint Tactical Missile System

JTAG—Joint Test Action Group

JTC³A—Joint Tactical Command, Control, and
Communications Agency

JTF—Joint Task Force

JTFC—Joint Tactical Fusion Center

JTG—Joint Task Group

JTIDS—Joint Tactical Information Distribution
System

JTPR—Joint Technology Panel for Robotics

JTS—joint test subassembly

JTSMG—Joint Theater Surety Management Group

JTU—joint test unit

JTWG—Joint Test Working Group

JVE—joint verification experiments

JWG—Joint Working Group

K

k—kilo (prefix indicating 10^3)

K—1. kelvin (thermodynamic temperature; since 1967 the degree symbol has been discontinued with K)
2. kayser (unit of reciprocal length, known as rydberg) 3. in computer terminology, the power of 2 closest to a number; e.g., a *4K* memory is 4096 words 4. in money terminology, thousand; e.g., \$10 *K* is \$10,000.

kA—kiloampere

KAFB—Kirtland Air Force Base (NM)

KAO—Kirtland Area Office (DOE)

KAVE—K-nearest neighbor average

kb—1. kilobar (also *kbar*) 2. kilobit

kb/s or **kbp/s**—kilobits per second

kbyte—kilobyte

kc—kilocycle (obsolete; use *kHz* instead)

KC—Kansas City Plant (see *BKC* or *AS/KCD*)

kcal—kilocalorie (also known as kilogram-calorie, *kg-cal*)

KCAO—Kansas City Area Office (DOE)

KCAS—knots calibrated airspeed

KCD—Kansas City Division of Allied Signal
Aerospace Corporation (also see *AS/KCD* and *BKC*)

kCi—kilocurie

kc/mol—kilocalories per mole

kc/s—kilocycle per second (use *Hz* instead)

KE—kinetic energy

keV—kilo electron volt

KEW—kinetic energy weapon

kft to LAARC

kft—kilofeet (SI units preferred)
kg—kilogram
kG—kilogauss
KGB—translation: Soviet Ministry of State Security
kg-cal—kilogram-calorie (see also *kcal*)
kgf—kilogram force
kgm—kilogram-meter
kg-m²—kilogram-meter squared
KH—reconnaissance satellite series designator
kHz—kilohertz
KI—stress intensity factor for Mode I crack opening
KIAS—knots indicated airspeed
KIc—critical stress intensity factor for Mode I crack opening
kin—kinetic
kip—kilopound
kJ—kilojoule
KKR—Kohn, Korringa, and Rostoker
kL—kiloliter
km—kilometer
km/h—kilometer per hour
KMR—Kwajalein Missile Range
KMS—KMS Fusion, Inc.
km/s—kilometers per second
kn—knot
kN—kilonewton
kNM—kilo nautical miles
kohm—kilohm

K&P—Koogle and Pouls (Engineering)
KPL—key personnel locator
krad—kilorad
KREMS—Kierman reentry measurement system
Krf—krypton fluoride
kt—kiloton
KTACS—Korean Tactical Air Control System
KTAS—knots true airspeed
KTF—Kauai Test Facility
KUMD—know, understand, manage, and document
KUMSC—Kirtland Underground Munitions Storage Center
kV—kilovolt
kVA—kilovolt ampere
kvar—kilovar
KVM—Kerr voltage monitor
kVp—kilovolt potential
kW—kilowatt
kWe—kilowatt of electrical energy
kWh—kilowatt hour
kWt—kilowatt of thermal energy

L

L—1. Since November 16, 1976, the capital L has been used as the US symbol for liter. This is because the lower-case L (l) can be confused with the numeral 1. See *The Metric Reporter*, 4:26 (December 24, 1976); Office Procedure Manual II, February 24, 1978. **2.** lambert (unit of luminance) **3.** loop **4.** leadership (one of the three corporate values; see also Q and T.) **5.** Link (as in L1: Link 1)
LA—limited area
LAARC—lightweight, air-transportable, accident-resistant container

LABCOM—Laboratory Command (Army: Adelphi, MD)

LAC—lightning arrester connector

LADAR—laser detection and ranging

LADD—low-angle drogue delivery

LAFO—Los Alamos Field Office (DOE)

LAMP—Lagrangian measurement platform

LAMPF—Los Alamos Meson Physics Facility

LAN—Local Area Network

LANCE—dual-capable, short-range missile (Army)

LANL—Los Alamos National Laboratory

LANTCOM—Atlantic Command

LANTIRN—low altitude navigation targeting infrared night

LAPRADS—low-altitude parachute retrorocket airdrop system

LARS—laser-articulated robotic system

laser—light amplified by stimulated emission of radiation (originally an acronym but now accepted as a word)

LASL—Los Alamos Scientific Laboratory (obsolete; see LANL)

LASS—1. Laser spark spectroscopy 2. large area smoke system

lat—latitude

LAT—1. lock and tumbler 2. local area terminal (or transport) 3. lot acceptance test

LATA—Los Alamos Technical Associates

LAV—light armored vehicle

LAW—light, anti-tank weapon

LAZAP—laser calibration

lb—pound

lbf—pound force

lbf/ft—pound force per foot

lb/ft—pounds per foot

lb/ft³—pounds per cubic foot (sometimes written as *pcf*, but *lb/ft³* is preferred)

lb/in.—pounds per inch

lb/in²—pounds per square inch; also *psi*

LBL—Lawrence Berkeley Laboratory

lbm—pound mass

LBR—large breeder reactor

LBRV—large ballistic recovery vehicle

LBTS—land-based test site

LC—1. liquid chromatography 2. liquid crystal 3. load car 4. laser communication 5. labor costs 6. lethal concentration

LCB—Laboratory Coordinating Board

LCC—1. life-cycle cost 2. Launch Control Center 3. launch control console

LCCA—leadless chip carrier assembly

LCD—1. local control and display 2. liquid crystal device (or display)

LCE—1. laboratory component evaluation 2. launch control error

LCF—latent cancer fatalities

LCG—launch control group

LCM—least common multiple

LCO—limiting condition of operations

LC-SC—1. launch control to security control 2. launch control security car

LCSS—lightweight camouflage screening system

LCT—laboratory component test

LCTF to LISN

LCTF—lost circulation test facility

LCTP—laboratory component test program

LD—1. laser diode 2. lethal dose 3. lay down
4. logistics demonstration

L/D—1. link/diameter 2. lift/drag

LDAS—1. Laboratory Document Accountability
System 2. Livermore Document Accountability
System

LDI—1. (Bell) Laboratories design information
2. laser diode ignition

LDRD—Laboratory-directed research and
development

LDS—laser dazzle sight

LDV—laser Doppler velocity

LDW—loss damage waiver

LE—low explosive

LEAP—1. Livermore Employees Assistance Plan (or
Program) 2. lightweight exoatmospheric projectile

LEBA—line-source electron-beam annealing

LED—light-emitting diode

LEED—low-energy electron diffraction

LEF—laser-excited fluorescence

LEG—Logistical Evaluation Group

LEMUF—limit of error on material unaccounted for

LERC—1. Lewis Research Center 2. Laramie Energy
Research Center

LES—1. launch enable switch 2. loaded equipment
section

LET—linear energy transfer

LETC—Laramie Energy Technology Center

If or LF—1. low frequency 2. live fire

LFBSR—linear feedback shift register

LFE—1. L-band front end 2. liquid field emission

LGB—laser-guided bomb

LGVSS—light grid vault surveillance system

LH—labor hour

LHe—liquid helium

LHP—1. Lovelace Health Plan (NM) 2. leadless
hermetic package

LHS—Latin hypercube sampling

LHX—light-helicopter experiment

LIC—low-intensity conflict

LICA—low-intensity cobalt array

LiD—lithium deuteride

LIDAR—light detection and ranging

LIF—laser-induced fluorescence

LIFE—analysis of in-pile fuel elements (computers)

LIFO—last-in, first-out

LiH—lithium hydride

LIHE—light-initiated high explosive

lim—limit

lin—1. lineal 2. linear

linac—linear accelerator

LINC—Laboratory Information Network Committee

LINK—Laboratory Information Network

LIOCS—logical input/output control system
(computers)

LIRB—lithium ion rechargeable battery

LIS—Laboratory Information System

LISA—linear infrared scanning array

LISN—Line Impedance Stabilization Network

LISP —list processing (a computer language)	LMSC —Lockheed Missile and Space Company
Li/Tc —lithium thionyl chloride	lm/W —lumens per watt
LIWG —Line Implementation Working Group	ln —logarithm (natural)
LJT —Long-Junior Trilock	LNA —low noise amplifier
LKKR —layered Kohn, Korringa, and Rostoker	LNG —liquefied natural gas
LLA —launch loader adapter	LO —1. local oscillator 2. low observable
LLC —limited-life component	LOA —leave of absence
LLCE —limited-life component exchange	LOC —1. limited operational capability 2. loss of communication
LLD —low-level delivery	LOCA —loss-of-coolant accident
LLE —launch location error	LOCAAS —low-cost, anti-armor submunition
LLGPT —low-level, general-process trash	LOCAP —low-capacitance (cable)
LLL —1. low-light level (optics) 2. low-level logic (computers)	loc.cit. — <i>loco citado</i> (in the place cited)
LLMW —low-level mixed waste	LOCUSP —low-cost uncooled sensor prototype
LLNL —Lawrence Livermore National Laboratory	LOD —letter of determination
LLTB —long-life thermal battery	LOF —loss-of-flow (accident)
LLW —low-level waste (nuclear waste technology)	LOFAR —low-frequency acquisition and ranging
lm —lumen	LOFT —loss-of-fluid test
LMCS —loop multiplexer communication system	log —logarithm
LMF —1. Laboratory Microfusion Facility 2. Large-Scale Melt Facility 3. local monitoring facility	LOGCAP —logistics and command assessment of projects
LMFBR —liquid-metal fast breeder reactor	long —1. longitudinal 2. longitude
lm/ft² —lumens per square foot	LORAN —long-range navigation
lm/m² —lumens per square meter	LOS —line of sight
LMMS —land mobile missile system	LOTO —lockout/tagout
LMOS —loop maintenance operations system	LOTS —lightweight optical tracking system
LMR —1. limited message retriever 2. liquid-metal reactor	LOV —letter of violation
lm-s —lumen-second	LOW —launch on warning
	LOX —liquid-oxygen explosive

LP to LTV

LP—1. liquid propellant 2. linear programming

LPCVD—low-pressure chemical vapor deposition

LPE—liquid-phase epitaxy

LPF—low-pass filter

LPG—1. liquid propellant gun 2. liquefied petroleum gas

LPI—low probability of intercept

LPLIF—laser-photoanalysis, laser-induced fluorescence

lpm—line pairs per millimeter

LPS—laser plasma source

LPSS—line protection switching system

LPT—line printer

Lr—lawrencium (chemical symbol)

LR—1. letter requirement 2. light replica

LRA—long-range aviation

LRAM—long-range attack missile

LRD—light replica decoy

LRF—laser resonant fluorescence

LRINF—long-range intermediate nuclear force

LRIP—low-rate initial product

LRMDS—lightweight radar mine detector system

LRP—1. long-range plan 2. lightweight retractable pole

LRSP—long-range security plan (or program)

LRU—line replaceable unit (module)

LS—1. launch system 2. loaded salary 3. loop seal

L/s—liters per second; use ft³/min instead

LSA—logistic support analysis

LSB—least-significant bit (computers)

LSC—linear-shaped charge

LSD—least-significant digit (computers)

LSE—liaison element

LSG—laboratory support group

LSI—large-scale integrated (circuit)

LSO—1. laser safety officer 2. Lovelace Senior Options

LSTC—Livermore Software Technology Corporation

LSTS—1. launch system test set 2. launch system test sequence

LSWD—large screen wall display

LT—laser tracker

LTC—limited try count

LTD—long-term disability

LTE—local thermodynamic equilibrium

LTG—Laboratory Task Group

LtGen—Lieutenant General

LTH—lethality and target hardening

LTi—launch test inert

LTIV—launch test inert vehicle

LTO—lockout/tagout

LTPD—lot tolerance percent defective

LTPE—laboratory test program evaluation

LTSPME—long-term savings plan for management employees

LTSSP—long-term savings and security plan

LTU—laboratory test unit

LTV—Ling-Temco-Vought

LUA—launch under attack

LUG—local user's group

lux—the SI unit of illumination, equal to 1 lumen per square meter

LVC—load verification code

LVDT—linear variable differential transformer

LVPS—low-voltage power supply

LVT—1. linear velocity transducer 2. landing vehicle tracked

LVTB—low-voltage thermal battery

LWC—liquid-water content (climatology)

LWG—logistic working group

LWIR—long-wavelength infrared

LWIS—lightweight instrumentation system

LWR—light-water reactor

lx—illuminance; use lux

LY—low yield

M

μ - —micro- (AIP still uses micron, which they list as μ . Many Sandia scientists also insist on using micron in certain instances.)

μ A—microampere

μ Ah—microampere hour

μ C—microcoulomb

μ F—microfarad

μ J—microjoule

μ m—micrometer (formerly called micron; see μ - above)

μ s—microsecond (do not use μ sec)

m- —milli- (prefix indicating 10^{-3})

m—meter

M- —1. millions (when used with \$: \$14 M)
2. mole 3. molarity (chemistry)
4. mega- (prefix indicating 10^6)

M—molarity (chemistry)

m Ω —milliohm

M Ω —megohm

mA—milliampere

MA—1. mega ampere 2. management associate
3. Military Applications

M.A.—Master of Arts

M&A—maintenance and assembly (Army)

MAA—1. mission area analysis 2. material access area

MAAG—Military Assistance Advisory Group

MAB—Marine Amphibious Brigade

MABE—mega ampere beam experiment (accelerator)

MAC—1. material accountability computer
2. Military Airlift Command 3. modified auxiliary closure

MACCS—MELCOR Accident Consequence Code System

MACOM—Major Command

MACS—1. multiple-application coded switch
2. multiple-application computer system

MACV—Military Assistance Command, Vietnam (US)

MAD—1. maintenance, assembly, and disassembly (atomic weapons) 2. magnetic anomaly detection

MADDs—machine-aided design definition system

MADM—medium atomic demolition munition

MADT—microalloy diffused transistor

MAF—1. Marine Amphibious Force 2. moisture ash free

mag to Mbyte or MB

mag—magnetic

MAGIC—Manual-Aided Gaming of Integrated Combat (an electromagnetic particle-in-cell code)

MAGID—magnetic intrusion detector

MAGLEV—magnetic levitation

MAGLOC—magnetic logic computer

MAGTF—Marine Air Ground Task Force

mAh—milliampere hour

MAID—1. monitor adaptor isolation device
2. magnetic anti-intrusion detector

MAIT—matrix analysis of the inside threat

MAN—Management Assurance Notebook

MANAR—modular adaptable network for alarm reporting

MANOP—manganese nodule program

MANTECH—Manufacturing Technology

MAP—1. macroassembly program (computers)
2. mass analysis of particulates

MAPS—1. modular azimuth positioning system
2. modular azimuth positioning system

MAR—1. major article release 2. major assembly release

MARGE/SLUMP—MARGE/fuel slumping (computers)

MARRS—mobile autonomous robotics research system

MARS—module autonomous robotics system

MARV—maneuvering reentry vehicle

MAS—1. material accountability system 2. multi-application surety

MASC—1. manned automated security console
2. marine automated security console

MASER—microwave amplification by stimulated emission of radiation

MASP—mobile automatic scanning photometer

MASS—modular advance search system

MaST—maneuvering systems technology

MAST—1. multiApplication surety technology
2. maneuvering systems test

MATV—master antenna television (system)

MAVIS—modeling and analysis of valve interactions (a computer code)

MAW—medium assault weapon

MAWP—maximum allowable working pressure

max—maximum

MAXH—maximum homogeneity

mb—millibar (also written as *mbar*)

Mb—megabit

MB or Mbyte—megabyte

MBA—1. material balance accounting (or area) 2. management, budget, and accounting 3. main battle area

MBB—modular building block

MBC—meteor burst communication

MBE—molecular beam epitaxy

MB/EE—Brazilian designator for a ballistic missile series

MBFR—mutual and balanced force reduction

MBN—Marine battalion

MBPS—megabits per second; use Mb/s

Mb/s—megabits per second

MBS—modified bremsstrahlung

MBWA—managing by walking around

Mbyte or MB—megabyte

mC—microcoulomb

Mc—megacycle (obsolete; use *MHz*)

MC—1. major component 2. manual chapter
3. military characteristics

MCA—multichannel analyzer

MC&A—material control and accountability

MCAAP—McAlester Army Ammunition Plant

MCC—1. missile combat crew 2. Microelectronics
and Computer Corporation

MCCS—1. multiple-code coded switch 2. mobile
command and control system

MCCSS—multiple-code coded security switch

MCD—1. Mail Channel Directory 2. monitor
control and display

MCF—magnetic confinement fusion

mCi—millicurie

MCi—megacurie

MCL—maximum containment level

MCM—1. mine countermeasures 2. main control
module 3. mission control module 4. manual
control module 5. multichip module

MCP—1. microchannel plate 2. medical care plan
3. monolithic colliding pulse 4. mission check
(word) processor 5. missile consent panel

MCS—1. maintenance control system 2. maneuver
control system 3. master control system

MCTL—militarily critical technologies list

MCU—multiplexer control units (computers)

md—median

mD—millidarcy (geology)

M&D—maintenance and development

MDA—1. methylene dianiline 2. minimum
detectable activity (or amount)

MDAC/OEC—McDonnell Douglas Astronautics
Company/Opto Electronics Center

MDD—Mission Data Directory

MDE—Manufacturing Development Engineering
(Program)

MDF—1. mild detonating fuze 2. main distribution
frame

MDL—1. minimum detectable level 2. Micro-
electronics Development Laboratory

MDM—microminiature D-shape metal

MDMSC—McDonnell Douglas Missile Systems Co.

MDR—mandatory dry run

MDTD—minimum detectable temperature difference

MDU—munitions dummy unit

Me—mass of electrons

MEAFSA—Middle East, Africa (South of the Sahara),
and Southern Asia

meas—measure; measurement; measurable

MEASIM—measurement simulation (a computer
code)

MEBES—manufacturing electron beam exposure
system

MEC—Microsystems Engineering Corporation

MEIDS—1. militarized electronic information
delivery system 2. miniaturized electronic
information delivery system

MEL—1. material on external loan 2. monitoring
exposure level 3. monitoring exposure logic

MELIOS—mini-eye-safe laser infrared observation
set

MELT—multiple-channel analysis of top accidents
(computers)

MEP—mobile electric power

MER—materials evaluation reactor

MERADCOM to MILCON

MERADCOM—Mobility Equipment Research and Development Command (Fort Belvoir, Va)

MESA—Eulerian hydrocode developed at LANL (see CTH)

MESFET—metal electrode semiconductor field-effect transistor

MESH-HAZ—medical, environment, safety, and health hazards

MESH-HP—medical, environment, safety, and health—health physics

MET—MCCS encryption translator

METADEx—metals (abstracts and alloys) index

METC—Morgantown Energy Technology Center

meV—millielectron volt

MeV—megaelectron volt

MEW—microwave early warning

mf or **MF**—medium frequency

mF—millifarad

MF—main fuel

MFD—1. multi-functional display 2. military first destinations

MFE—magnetic fusion energy

MFI—magnetic flashover inhibition

MFIS—mosaic filter image sensor

MFLOPS—million floating point operations per second (computers)

mfp—mean free path

MFS—microwave fence sensor

mg—milligram

MGA—monochrome graphic adapter

MGM—mobile-guided missile

MGS—1. Mobile Ground System 2. missile guidance set

mH—millihenry

MHB—medium-height burst

MH/CD—mental health/chemical dependency

mhd—magnetohydrodynamic

MHF—massive hydraulic fracturing

MHTGR—modular high-temperature gas reactor

mHz—millihertz

MHz—megahertz (use instead of *megacycle*)

mi—mile (statute)

MI—1. military intelligence 2. moments of inertia

M&I—maintenance and inspection (Air Force)

MIB—master interconnect board

MICOM—Missile Command (Army)

MICSS—mobile integrated C³ and security system

MID—material identification document

MIDAS—1. management information and data access system 2. mobile intrusion detection and assessment system 3. mobile instrumentation and data acquisition system

MIDEP—mine detection energetic photons

MIDS—miniaturized intrusion detection system

MIFASS—Marine-Integrated Fire and Air Support System

mi/h or **mph**—miles per hour

MIIP—management implementation and integration program (or project)

MIIT—materials interface interactions test

MIL—military

MILCON—military construction

MILES—1. magnetic intrusion line sensor
2. multiple-integrated laser engagement system

MILNET—military network

MILSPEC—military specification

MILSTAR—military strategic/tactical and relay

MILVAN—a standard military freight container

MIMD—multiple instruction, multiple data

min—1. minute 2. minimum

MINIMAGID—miniature magnetic intrusion detector

MINISID—miniaturized seismic intrusion detector

MinNet—minimization network (waste)

MINT—miniature instrumental nosetip test

MIPR—military interdepartmental procurement request

MIPS—MIVS image processing system

MIR—managing interpersonal relationships

MIRA—microwave infrared alarm

MIREC—microreciprocal degree

MIRSS—mobile individual resource security system

MIRV—multiple independently (targetable) reentry vehicle

MIRVAL—mirror evaluation (computer program for heliostats)

MIS—1. metal-insulator semiconductor
2. management information services

misc—miscellaneous

MISER—minisensor relay (system)

MISR—1. modular industrial solar retrofit 2. multi-angle imaging spectroradiometer

MISS—modular intelligent sensor system

MIT—Massachusetts Institute of Technology

MITE—magnetically insulated transmission experiment

MITL—1. man-in-the-loop 2. magnetically insulated transmission line

MITMS—Military/Industry Technical Manual Specification

MIU—missile interface unit

MIVS—modular integrated video system

mJ—millijoule

Mk or MK—Mark, a bomb designation; it is followed by a number, as *Mk 5* (the Army style is *MK5*)

Mkg—megakilogram (use *Gg* instead)

mks or MKS—meter-kilogram-second (US Gaussian "normal" unit)

mL—1. milliliter (also *ml*, but *mL* is preferred)
2. millilambert

MLC—Military Liaison Committee

MLRS—Multiple-Launch Rocket System (Army)

MLS—1. member of the laboratory staff
2. multilevel secure

MLS/MIS—member of the laboratory staff who has experience or educational background in management information systems

MLST—member of laboratory staff trainee

MLT—1. munitions lift trailer 2. median lethal time

mm—millimeter

mM—millimole

MM—1. Minuteman (missile) 2. memory module 3. Martin-Marietta 4. meets most

MMA—1. materials measurement and accounting
2. Martin Marietta Aerospace (Orlando, FL)

MMC—Martin Marietta Corporation

MMDC to MOV

MMDC—master message display console

MMES—Martin Marietta Energy Systems

mmf—magnetomotive force

mmHg—millimeter of mercury (also *milliHg*)

MMI—man-machine interface

MMIC—monolithic microwave integrated circuit

mmol—millimole

MMRBM—mobile medium-range ballistic missile

MMS—1. maintenance management system
2. mission management system 3. munitions maintenance squadron

MMSC—Martin Marietta specialty components

mmu—milli-mass unit

mmW—millimeter wave

Mn—manganese (chemical symbol)

MNOS—metal-nitride-oxide semiconductor

MNR—mononitroresorcinate

mo—month

Mo—molybdenum (chemical symbol)

MO—move order

M&O—management and operations (or managing and operating)

MOA—memorandum of agreement (formerly memorandum of understanding)

MOAC—Management Oversight Advisory Committee

MOAS—missile ordnance arm switch

MOB—main operating base

MoC/MOC/Mof C—maintenance of capability

MOC—material operation computer

MOCVD—metal-organic chemical vapor deposition

mod—modification

MOD—Ministry of Defense

Mod/Alt—modification/alteration

ModComp—trade name for Modular Computer Systems, Inc.

MODEM—modulator demodulator (computers)

MODFET—modulation-doped field-effect transistor

MODIL—Manufacturing Operations Development and Integration Laboratory

MOFFF—mixed-oxide fuel fabrication facility

MOI—moment of inertia

mol—mole (often spelled out but can also be M)

mol %—mole percent

mol wt—molecular weight

MOLINK—Moscow to Washington (DC) direct line communication link

MOM—method of moments

MONAL—Mobile Nondestructive Assay Laboratory

MOPS—million operations per second

MORT—management oversight and risk tree (accident investigations)

MOS—1. metal-oxide semiconductor 2. metal oxide silicon 3. military occupational specialty 4. maintenance—out of service

MOSFET—metal-oxide, semi-conductor, field-effect transistor

MOTION—analysis of head motion due to HCDA loads (computers)

MOU—memorandum of understanding (obsolete; replaced by memorandum of agreement: MOA)

Mound—Monsanto Research Corporation, Mound Facility

MOV—metal oxide varistor

MOVPE—metal organic vapor-phase epitaxy

MOX—mixed oxide

mp—1. melting point 2. mean (effective) pressure
3. multipulse

MP—1. Military Police 2. maintenance procedure
3. massively parallel (computers) 4. message processor

MPa—megapascal

MPAC—Microelectronics and Photonics Applications Center

MPC—maximum permissible concentration

MPCC—multifunction peripheral controller chip

MPE—maximum permissible exposure (radiation)

MPG—1. midplate, midgyre 2. managing professional growth

mph or mi/h—miles per hour

MPI—multiphoton ionization

MPLS—multiphenomena line sensor

MPP—1. massively parallel processor 2. memory phrase pairs

MPU—1. microprocessor unit 2. Marx pulser unit

MQRC—Microelectronics Quality/Reliability Center

MQW—multiple quantum well

mr—see mrad below

mR—milliroentgen

MR—1. missile range 2. material requisition
3. military regions 4. mortality range

MRA—1. monetary recognition award 2. missile relay assembly

mrad or mr—milliradian

Mrad—megarad

MRBM—medium-range ballistic missile

MRC—maintenance requirement card

MRG—multiple-range gates

MRI—magnetic resonance imaging

mrem—millirem

MRL—multi-purpose rotary launchers

MRO—1. memory read out 2. maintenance, repair, and operating 3. medical review officer

MRR—minimum residual radioactivity

MRS—1. material requisition schedule 2. material requirement schedule 3. microwave ranging system 4. Materials Research Society 5. monitored retrievable storage

MRST—management restructure study team

MRT—minimum resolvable temperature

MRTD—minimum resolvable temperature difference

MRV—maneuvering reentry vehicle

MRVT—MultiRate Voice Terminal

ms—millisecond (do not use *msec*)

m/s—meters per second

mS—millisiemens

MS—1. mass spectrometer (or spectrometry) 2. monitor and support 3. motion sensor

MSA—mine safety appliances

MSAD—1. mechanical safing and arming detonator 2. mechanical safe arming device

MSB—most significant bit (computers)

MSBR—molten-salt breeder reactor

MSC—Major Subordinate Command (NATO)

MSCF—1. Master Surveillance and Control Facility 2. thousand standard cubic feet

MSCU—missile secure cryptographic unit

MSD to MUMS

MSD—most significant digit (computers)

MSDS—material safety data sheet

MSE—multiple subscriber equipment

MSEE—molten-salt electric experiment

MSG—Marine Security Guard

MSHA—Mining Safety and Health Association

MSI—1. medium-scale integrated (circuit)
2. multiple sensor interface

msl or **MSL**—mean sea level

MSLB—main steam-line break

MSMJ—mechanically stacked, multijunction

MSP—marine sediment penetrometer

MSR—1. molten-salt reactor 2. maintenance service request 3. modular surveillance radar

MSRC—multicrystalline silicon research consortium

MSRV—medium single (targeted) reentry vehicle

MSS—1. mass storage system 2. multi-spectral scanner 3. mission support system

MSSA—Master Safeguards and Security Agreement

MSSTF—Midtemperature Solar Systems Test Facility

MST—medium-scale technology

MSTA—materials sample test apparatus

MSTC—Maquila Sandia Technology Consortium

MSTRS—miniature spacecraft threat reporting system

MSX—midcourse sensors experiment

mt—metric ton

Mt—megaton (see *kt*)

MT—1. manufacturing technology 2. measured time

MTA—multi-threat analyzer

MTAC—Machine Tool Access Center

MTBCF—mean time between critical failure

MTBF—mean time between failures

MTBOMF—mean time between operational mission failures

MTC—Metal Trades Council

MTCC—Modular Tactical Communications Center

MTCR—Missile Technology Control Regime

MTF—modulation transfer function

MTFPP—modular tactical force protection package

mtg—meeting

MTHM—metric tons heavy metal

MTI—1. Mechanical Technology, Inc
2. multi-spectral thermal imager 3. moving target indicator

MTO—material transfer order

mTorr—millitorr

MTPM—mean time to perform (preventive) maintenance

MTR—mean time to restore

MTS—member of the technical staff

MTTF—mean time to failure

MTTFF—mean time to first failure

MTTR—mean time to repair

mtU—metric tons uranium

MU—monitoring unit

MUF—material unaccounted for

MULE—modular universal laser equipment

MUMS—Munitions Maintenance Squadron

MUNSS—Munitions Support Squadron

MUSE—multi-dimensional synthetic environment

MUX—1. multiplexing equipment 2. multiplexer

mV—millivolt

Mv—mendelevium (chemical symbol)

MV—megavolt

MVPD—median volume pore diameter

MVS—multiple virtual storage

mW—milliwatt

MW—1. megawatt 2. microwave 3. mixed waster 4. missile warning

MWd—megawatt-day

MWDS—missile warning display system

MWLID—mixed-waste landfill integrated demonstration

MWO—modification work order

MWR—morale, welfare, and recreation

MWRTS—millimeter wave radio telephone system

MWth—megawatt, thermal

MWX—Multiwell Experiment (DOE-sponsored field laboratory near Rifle, Colorado)

Mx—maxwell (a unit of magnetic flux)

MX—1. Peacekeeper ICBM 2. missile

MY—man-year

mya—myriare

myL—myrialiter

mym—myriameter

M/Z—mass-to-charge ratio

MZI—Mach-Zehnder interferometry

N

n-—nano (a prefix indicating 10^{-9})

n—neutron

N—1. newton (unit of force) 2. normal (chemistry) 3. nose

nA—nanoampere

NA—1. not available 2. not applicable 3. numerical aperture 4. network adaptor

NAAMM—National Association of Architectural Metal Manufacturing

NAB—National Association of Broadcasters

NACE—National Association of Corrosion Engineers

NACFE—National Association of Certified Fraud Examiners

NACOA—National Advisory Committee on Ocean and Atmosphere

NAD—nuclear accident dosimeter

NAEP—National Assessment of Educational Progress

NAFEMS—National Agency for Finite Element Methods and Standards

NAHAMMER—Sodium (Na) Fluid-HAMMER Analysis (computers)

NALAP—sodium (Na) version of ReLAP (computers)

NAND—not-AND (computer logic)

NANS—Nuclear Agency, Nuclear Security

NAP—NAS aperture package

NAPAP—National Acid Precipitation Assessment Program

NAPSAC—Naval Atomic Planning Support and Capabilities

NAR—nuisance alarm rate

NARA—National Archives and Records Administration

NARL to NDP

NARL—Naval Arctic Research Laboratory

NAS—1. NDS antenna system 2. Netview Access Services 3. nuclear assembly system 4. Naval Station System 5. National Academy of Sciences

NASA—National Aeronautics and Space Administration

NASP—Nuclear Ammunition Supply Point

NATO—North Atlantic Treaty Organization

NATRAN—sodium (Na) transient analysis (computers)

NAV—1. navigation 2. net asset value

NAVAIR—Naval Air Systems Command

NAVELEX—Navy Electronics Systems Command

NAVEODTECHCEN—Naval Explosive Ordnance Disposal Technology Center

NAVFORV—Naval Forces, Vietnam

NAVMAT—Naval Materiel

NAVSWC—Naval Surface Weapons Center

NAWC—Naval Air Weapons (or Warfare) Center

nb—nanobarn

NBC—1. nuclear, biological, chemical 2. non-base compensation

NBDS—nuclear-burst detection system

NBL—New Brunswick Laboratory

NBS—National Bureau of Standards (now National Institute of Standards and Technology: *NIST*)

NC—1. normally closed 2. numerically controlled 3. nitrocellulose

NC²—nuclear command and control

NCA—1. National Contingency Act 2. National Command Authority

NCAICM—National Center for Advanced Information Components Manufacturing

NCAM—National Center for Advanced Materials

NCAW—neutralized current and waste

NCB—Nuclear Contingency Branch

NCC—Network Control Center

NCEM—National Center for Electron Microscopy

nCi—nanocurie (10^{-9} curies)

NCM—nonconforming material

NCMA—National Contract Management Association

NCMS—National Center for Manufacturing Sciences

NCO—noncommissioned officer

NCOSE—National Council on Systems Engineering

NcPTD—near-field physical theory of diffraction (code)

NCRP—National Council on Radiation Protection

NCRW—neutralized cladding removal waste

NCS—1. neutron control system 2. network computing system 3. National Communications System

NC²SG—Nuclear Command and Control Steering Group

NCTTA—National Competitiveness Technology Transfer Act

NCURE—National Center for Ultra-Reliability Engineering

ND—1. not determined 2. no date 3. neutral density

NDB—nuclear depth bomb

NDE—nondestructive evaluation

NDEW—nuclear-driven (or directed) energy weapon

NDI—1. nondevelopment item 2. nondestructive inspection

NDP—nuclear detonation pathway

NDPC—National Disclosure Policy Committee

NDR—1. NUDET detection report 2. Nuclear Defense Research (Corporation)

NDRO—nondestructive readout (computers)

NDS—NUDET detection system

ND/SB—nuclear depth/strike bomb

NDT—nondestructive test

NDTWG—Nevada Test Site Development and Transport Working Group

NE—nuclear energy

NEA—1. Nuclear Energy Agency 2. nuclear explosive area

NEACP—National Emergency Airborne Command Post

NEC—National Electric Code

NECOSHA—National Electric Code OSHA

NEDS—nonviolent explosive destruct system

NEE—noise equivalent emissivity

neg—negative

NEG—net energy gain

NELA—nuclear explosive-like assembly

NELIAC—Nary Electronics Laboratory International ALGOL Compilers (computers)

NELM—Naval Forces Eastern Atlantic and Mediterranean

NEMA—National Electric Manufacturers Association

NEODTC—Naval Explosive Ordnance Disposal Technology Center

NEP—1. NAS electronics package 2. noise equivalent power

NEPA—National Environmental Policy Act

NEPB—NEST Executive Planning Board

NER—network equipment rack

NERVA—nuclear engine for rocket vehicles application

NES—1. nuclear explosive safety 2. National Energy Strategy

NESC—1. National Electric Safety Code 2. National Energy Software Center

NESEC—Naval Electronics Systems Engineering Center

NESHAP—national emission standards for hazardous air pollutants

NESS—nuclear explosive safety study

NESSG—nuclear explosives safety study group

NEST—nuclear emergency search team

NET—1. new equipment training 2. noise equivalent temperature

NETD—noise equivalent temperature difference

NETOG—nuclear explosive tester oversight group

NETS—National Emergency Telecommunications System

nf—noise factor

nF—nanofarad

NFARS—NORAD Forward Automated Reporting System

NFH—nonflammable hydraulic (fluid)

NFPA—National Fire Protection Association

NFPQT—nuclear facilities personal qualification and training

NFS—1. nuclear fuel services 2. network file system (computers)

NG—1. neutron generator 2. nitroglycerine

NGB—National Guard Bureau

n/gs—neutron per gram-second

NGS to NMRDI

NGS—NUDET ground station

nH—nanohenry

NH—Nike Hercules

NHL—next higher level

Ni—nickel (chemical symbol)

Ni-Cad or **nicad**—nickel-cadmium

Ni-Cr-P—nickel-chromium-phosphorous

NIDM—NMCC information for decision makers

NIDS—1. NMCS Information Display System
2. NATO Intrusion Detection System

NIFFTE—noncooperative, identify friend or foe
technology evaluation

NIH—National Institute of Health

NII—National Information Infrastructure

NIIT—National Information Infrastructure Testbed

NIOSH—National Institute of Occupational Safety
and Health

NIS—New Independent States (former Soviet Union)

NISC—Naval Intelligence Support Center

NISDN—NATO Integrated Services Digital Network

NISP—National Industrial Security Program

NIST—National Institute of Standards and
Technology (formerly National Bureau of
Standards: *NBS*)

NITF—national imagery transmission format

NKEW—nuclear kinetic energy weapon

NLO—Naval Liaison Organization

NLRA—National Labor Relations Act

NLRB—National Labor Relations Board

NLT—not later than

NM—does not meet required performance

nm—nanometer

N/m²—newton per square meter

N·M—newton meter

NMAB—National Materials Advisory Board

NMAS—nuclear material accounting system

NMCC—National Military Command Center

NMCI—National Military Intelligence Center

NMCS—National Military Command System

NMED—New Mexico Environmental Department

NMEI—New Mexico Environmental Institute

NMERI—1. New Mexico Energy Research
Institute 2. New Mexico Engineering Research
Institute

NMFT—new material flight test

NMHRC—New Mexico Human Rights Commission

nmi—nautical mile

NMI—Nuclear Materials, Inc.

NMIS—1. nuclear material inspection and storage
2. nuclear material identification system

NMLT—new material laboratory test

NM MESA—New Mexico Mathematics Engineering
Science Achievement

NMMS—nuclear material management system

NMMSS—nuclear materials management and
safeguards system

NMOS—nitrous metal-oxide semiconductor

NMP—nuclear materials production

NMR—nuclear magnetic resonance

NMRDI—New Mexico Research and Development
Institute

NMRO —Nuclear Monitoring Research Office	NORAD —North American Air Defense (Command)
NMSS —Nuclear Material Safeguards and Security (NRC)	NORC —nuclear ordnance record card
NMST —new material system testing	NORDA —Naval Ocean Research and Development Activity
NMTP —National Machine Tool Partnership	NORESS —Norwegian Regional Seismic Station
NMVO —New Mexico Volunteers for the Outdoors	NORTHAG —Northern Army Group (NATO)
NNAPS —night navigation and pilot system	NOS —1. network operating system 2. NATO Office of Security 3. Naval Ocean Systems
NNF —National Nanofabrication Facility	NOSC —Naval Ocean Systems Center
NNK —nonnuclear kill	NOSO —nuclear ordnance supply officer
NNWSI —Nevada Nuclear Waste Storage Investigations	NOSS —nuclear ordnance shipping schedule
No —nobelium (chemical smbol)	NOV —notice of violation
NO —normally open	NOWR —nuclear ordnance war reserve
NOAA —National Oceanographic and Atmospheric Administration	Np —1. neptunium (chemical symbol) 2. neper (logarithmic ratio)
NOAM —nuclear ordnance Air Force materiel	NPB —neutral particle beam
NOCM —nuclear ordnance commodity management (or manager)	NPBW —neutral-particle-beam weapon
NOCSIM —nitrate-to-oxide conversion simulation (computer code)	NPDES —national pollution (or pollutant) discharge elimination system
NOF —NORAD Offutt	NPES —nuclear planning and execution system
NOI —noise of intent (DOE)	NPF —nuclear permission to fire
NOIWON —National Operations and Intelligence Watch Officer's Network	NPG —nuclear planning group
nom —nominal	NPN —negative-positive-negative
NONEL —nonelectric	NPP —nuclear plot production
NO OP —No Operation (computers)	NPR —new production reactor
NOCM —nuclear ordnance commodity management (or manager)	NPS —1. nuclear power system 2. nuclear power supplies
NOP —1. nuclear operations policy 2. Nuclear Ordnance Platoon	NPSS —Nuclear and Plasma Sciences Society
NOR —not-OR (computer logic)	NPT —Nonproliferation Treaty; also, Treaty on Nonproliferation of Nuclear Weapons: <i>TNNW</i>
	NPTF —nuclear permission to fire

NQAA to NTPI

NQAA—Nuclear Quality Assurance Agency

NRC—1. Nuclear Regulatory Commission (US)
2. Newport Research Corporation 3. National
Research Council 4. National Response Center

NRDC—Natural Resources Defense Council

NREL—National Renewable Energy Laboratory

NRF—Naval Reactors Facility

NRL—Naval Research Laboratory

NRR—Nuclear Reactor Regulation

NRRSI—nonregular recurrent security inspector

NRS—NDS receiver subsystem

NRSA—Norwegian regional seismic array

NRV—nosetip recovery vehicle (parachute)

ns—nanosecond (do not use *nsec*)

NS—1. nuclear safety 2. non-survivable 3. nuclear
systems

NSA—1. National Security Agency 2. Nuclear
Security Agency

NSAC—1. National Security Activities
Committee 2. National Security Advisory
Committee

NSAFE—nuclear safety evaluation

NSC—1. National Security Council 2. National
Space Council

NSDD—National Security Decision Directive

NSF—1. net square feet 2. National Science
Foundation

NSI—1. national security information 2. nuclear
surety inspection

NSIC—Nuclear Safety Information Center

NSL—1. National Storage Laboratory 2. nuclear
surety link

NSLS—National Synchrotron Light Source

NSM—nuclear strike message

NSNF—nonstrategic nuclear force

NSO—network security officer

NSPE—National Society of Professional Engineers

NSPI—National Society for Performance and
Instruction

NSRDC—Naval Ship Research and Development
Center

NSS—1. national stockpile site 2. National Seismic
Station 3. nuclear safeguards and security

NSSS—nuclear steam supply system

NSTEP—National Small-business Technology
Exchange Program

NSTTF—National Solar Thermal Test Facility

NSU—negotiations support unit

NSWC—1. Naval Surface Weapons Center 2. Naval
Systems Weapons Center

NSWG—Nuclear Safety Working Group

NSWSES—Naval Ships Weapons Systems
Engineering Station

nt—nit (luminance)

ntc—negative temperature coefficient

NTC—National Training Center (Fort Irwin, CA)

NTDS—Naval Tactical Data System

NTE—naval test and evaluation

NTI—national technology initiative

NTIK—nontechnical instrumentation kit

NTIS—national technical information service

NTM—national technical means

ntp—normal temperature and pressure

NTPI—Navy Technical Proficiency Inspection

NTRB—Nuclear Technology Reference Book

NTS—Nevada Test Site

NTSC—National Television Standards (or System) Committee (US)

NTSO—Nevada Test Site Office

NUC—nuclear

NUCSLU—nuclear station logic unit

NUCWA—nuclear weapons accounting (system)

NUDET—nuclear detonation (and detection)

NuPac—Nuclear Packaging, Inc.

NUREG—A number issued for an NRC document

NUSC—Naval Underwater Systems Center

NV—Nevada Operations Office (DOE)

NVA—North Vietnamese Army

NVD—1. nonviolent disablement 2. night-vision device

NVEOL—Night Vision and ElectroOptical Laboratory

NVO—Nevada Operations Office (DOE); now *NV*

nW—nanowatt

NW—nuclear weapon

NWAI—nuclear weapons acceptance inspection

NWC—1. Naval Weapons Center 2. Nuclear Weapons Complex 3. Nuclear Weapons Council

NWCSC—Nuclear Weapons Council Standing Committee

NWCT—nuclear weapons critical technologies

NWC/WSC—Nuclear Weapons Council/Weapons Safety Committee

NWD—1. nuclear weapon data 2. nuclear weapon design

NWDG—nuclear weapon development guidance

NWEF—Naval Weapons Evaluation Facility (Kirtland Air Force Base)

NWER—nuclear weapon effects research

NWET—nuclear weapon effects test

NWIU—nuclear weapon interface unit

NWLE—nuclear weapon liaison element

NWM—nuclear weapon (or warhead) management

NWP—nuclear weapon production

NWPA—Nuclear Waste Policy Act

NWRP—nuclear weapon release procedures

NWRS—1. nuclear weapon response system
2. nuclear weapon requirement study

NWSB—Nuclear Warfare Status Branch

NWSM—Nuclear Weapons Stockpile Memorandum

NWSS—nuclear weapon subsystem

NWSSG—Nuclear Weapon Systems Safety Group

NWSSTG—Nuclear Weapon Subsystem Test Group

NWSSTP—Nuclear Weapon Subsystem Test Plan

NWTI—nuclear weapon technical inspection

NWTS—nuclear waste terminal storage

NWTSHEG—Nuclear Weapon Transportation Safety Hazard Evaluation Group

O

Ω—ohm

O—oxygen (chemical symbol)

OA—office automation

OAA—office administrative assistant

OAC—Office of Arms Control

OACNP to OHEG

OACNP—Office of Arms Control and Non-Proliferation (Systems)

OAD—1. operational availability date 2. ordnance available date

OADR—originating agency's determination (is) required

OAS—1. Office Automation Subcommittee
2. offensive avionics system

OASDC³I—Office of the Assistant Secretary of Defense Communications, Command, Control, and Intelligence

OASPL—overall sound pressure level

OAU—Origin of African Unity

OAWG—Office Automation Working Group; obsolete. New name: Laboratory Information Network (LINK)

OB/OD—open burning/open detonation

obs—observed

OC—1. open circle 2. outside circumference

OCE—operations control element (or equipment)

OCI—organizational conflicts of interest

OCN—organization change notice

OCONUS—outside contiguous United States

OCR—1. operational change report 2. optical character recognition

OCRWM—Office of Civilian Radioactive Waste Management

OCS—1. outer continental shelf 2. on-scene commander

OCSA—order compliance self-assessment

OCSAP—order compliance self-assessment program

OCV—1. overcharged voltage 2. outer containment vessel

OD—1. optical density 2. outside diameter

ODC—ozone-depleting chemicals

ODE—ordinary differential equation

ODES—operational deployment experiment simulator

ODF—ODES development flight

ODS—ozone-depleting substances

ODTX—one-dimensional time to explosion

Oe—oersted

OE—1. optical engineering 2. order expert
3. optoelectronics

OEA—Office of External Affairs (DOE)

OEC—Optoelectronics Center

OECD—Office for Economic Cooperation and Development

OEM—original equipment manufacturer

OEMT—operational emergency management team

OEPO—Office of Emergency Plans and Operations

OER—operating experience report

OET—operational employment test

OFA—other federal agencies

OFB—output feedback

OFC—Organizational Facility Coordinator

OFCCP—Office of Federal Contract Compliance Program

OFFE—Office of Federal Facilities Enforcement

OFP—operational flight program

OFS—operational flight software

OGS—Overseas Ground Station

OHEG—Organization and Human Effectiveness Group

OHL —over high limit	OPAC —Operations (Office for) Arms Control
OI —operating (or office) instruction	OpAmp —operational amplifier
OIDA —Optoelectronics Industry Development Association	OPCC —Offutt Processing and Correlation Center
OIDT —operator-interactive display terminal	op. cit. — <i>opere citato</i> , in the work cited
OIE —Office of Inspection and Enforcement	OPCW —American Translation: International Chemical Weapon Inspectorate
OIG —Operations Interface Group	OPDAR —optical direction and ranging
OIS —ordnance initiation set	OPEC —1. Organization of Petroleum-Exporting Countries 2. On-Premises Educational Committee
OISA —Office of International Security Affairs	OPEIU —Office and Professional Employees International Union
OIT —Office of Industrial Technologies	OPD —operational plan document
OJCS —Office of the Joint Chief of Staff	OP-FTIR —open path Fourier transform infrared spectrometers
OJT —on-the-job training	OPM —1. Office Procedures Manual 2. operations performance monitor
OL —operating location	OPMODEL —operational model
O&M —operation and maintenance	OPNAV —Office of the Chief of Naval Operations
OMA —Office of Military Applications (DOE)	OPORD —operational order
OMB —Office of Management and Budget	OPSEC —operations security
OMG —Operational Maneuver Group (Soviet)	OPSEL —option select
OMI —Office of Medical Investigator	OPTASM —optical target signature model
ONPG —Operations Nuclear Planning Group	OPTEVFOR —Operational Test and Evaluation Force (Navy)
ONR —Office of Naval Research	OQP —organizational quality plan
ONT —Office of Naval Technology	OR —1. Oak Ridge 2. occurrence report 3. operations requirements
ONWI —Office of Nuclear Waste Isolation (Battelle Memorial Institute)	ORLA —optimum repair-level analysis
OOH —out of hours	ORNL —Oak Ridge National Laboratory
OOL —out of limit	ORO —Oak Ridge Operations (DOE)
OOPS —object-oriented program symbols (computers)	ORR —operation readiness review
OOSS —overseas operational storage site	
OP —operating procedure	
OPA —Office of Planning and Analysis	

ORRIBLE to pA

ORRIBLE—Oak Ridge reactor inlet blockage code (computers)

ORS—organization reconstruction system

ORTA—Office of Research and Technology Applications

Os—osmium (chemical symbol)

OS—1. operating system 2. Office of Space

OSA—Optical Society of America

OSAG—Office Systems Advisory Group

OSAP—Operational Survivability Assessment Program

OSC—1. on-scene commander 2. oscilloscope

OSD—Office of the Secretary of Defense

OSE—Office of Security Evaluations

OSHA—1. Occupational Safety and Health Administration 2. Occupational Safety and Health Act

OSHWPP—Occupational Safety and Health Worker Protection Plan

OSI—open systems interconnect

OSIA—on-site inspection agency

OSL—optically stimulated luminescence (see COSL)

OSM—on-site monitor

OSNP—Office of Space Nuclear Projects (DOE)

OSO—offensive systems officer

OSR—1. operational safety requirements
2. operational safety report

OSS—1. Office of Safeguards and Security (DOE)
2. operating system software 3. operational storage site

OSSP—Outstanding Student Summer Program

OST—operational suitability test

OSTD—off-site technical director

OSTI—Office of Scientific and Technical Information (DOE)

OSTP—Office of Science and Technology Policy

OT—operational test

OTA—Office of Technology Assistant

OTDR—optical time-domain reflectometry

OT&E—operation test and evaluation

OTEA—Operational Test and Evaluation Agency

OTEC—ocean thermal energy conversion

OTF—optical transfer function

OTH—over the horizon

OUO—official use only

OV—Office Vision

OWI—Office of Waste Isolation (now Office of Nuclear Waste Isolation)

OWBPA—Older Worker Benefits Protection Act

Oy—orralloy

OYOC—one-year-on-campus

oz—ounce

P

p-—pico- (prefix indicating 10^{-12})

p—1. proton 2. page (plural is *pp*)

P—1. peta- (prefix indicating 10^{15}) (Not to be used for *poise* in dynamic viscosity) 2. precision
3. phosphorous (chemical symbol) 4. Pershing Missile (as in Pershing II or PII)

Pa—1. protactinium (chemical symbol) 2. pascal (unit of pressure or stress)

pA—picoampere

PA—1. power amplifier 2. prearmed 3. public address 4. pressure advisor 5. protected area 6. production agency 7. position analyzer 8. progress assessment

PAA—1. primary aircraft authorization 2. procurement action approval

PAAC—program analysis adaptable control

PAB—Project Advisory Board

PABX—private automatic branch exchange

PAC—Pershing airborne computer

PACA—Professional Aerospace Contractor's Association

PACAF—Pacific Air Force

PACCS—Post-Attack Command Control System

PACE—plant and capital equipment

PACES—pressurized-air-combustor exhaust simulator

PACOM—Pacific Command

PACPADS—Portsmouth alarm communication processing and display system

PACX—Private Automatic Computer Exchange

PAD—1. procurement action documentation 2. Pajarito Dynamics (computer code)

PADAR—passive detection and ranging

PADS—procurement assistance data system

PAGOSA—a data-parallel version of MESA

PAHR—postaccident heat removal

PAL—1. permissive action link 2. phase alternate line 3. programmable array logic 4. protective action levels

PAM—1. pulse-amplitude modulation 2. prearm monitor 3. pulse-accumulation module

PAMTRAK or Pam Trak—personnel and material tracking (system)

PAN—peroxyacetylnitrate

PAO—1. Pinellas Area Office (DOE) 2. public affairs officer

PAP—1. Performance Action Plan 2. Personnel Assurance Program (or Plan)

PAPS—permissive arming and protection system

par—1. paragraph 2. parallel 3. parenthesis

PARCS—perimeter acquisition radar (attack) characterization system

PARD—Protect As Restricted Data (Note: Use this only with the permission of the Alb. Computer Security Site Manager.)

Par-Q—physical activity readiness questionnaire

PAS—1. Primary Alerting System 2. protective aircraft shelter (see HAS)

PASC—probability of adversary sequence completion

PASEM—passive environmental monitor

PASS—1. Personnel Access Security System 2. Personnel Administrative Support System

PASTA—program for application to stress and thermal analysis (computer code)

PASTF—Photovoltaic Advanced Systems Test Facility

PAT—1. Progress Assessment Team 2. plutonium air-transportable (container)

PATRAM—package and transport of radioactive material

PATRICIA—practical algorithm to retrieve information coded in alphanumeric (computer program)

PATS—prototype automatic target screener

PAVE PAWS—precision acquisition vehicle entry phased array warning system

PAVING—a mesh-generation software algorithm

PAWS—portable acoustic wave system

Pb to PDL

Pb—lead (chemical symbol)

PBE—prompt burst energetics

PBFA—particle-beam fusion accelerator

PBFTU—prebuilt flight test unit

PBGC—Pension Benefits Guaranty Corporation

PBPT—pixel-by-pixel transfer

PBV—post-boost vehicle

PBW—parts by weight

PBX—1. plastic bonded explosive 2. private branch exchange (teletype) 3. public branch exchange

PC—1. printed circuit 2. polymer concrete
3. photoconductive 4. port contenders
5. personal computer 6. PAL controller
7. physician's certificate

P-C—plano-convex

PCA—physical configuration audit

PCAP—Process Capability Assurance Program

PCB—1. printed circuit board 2. polychlorinated biphenyl 3. personal computer board

PCC—1. Platoon Control Center 2. percent correct classification 3. Policy Coordinating Committee

PC-CAPRS—personal computer compensation and performance review system

PCCS—ported coaxial cable sensor

PCD—program control document

PC/DAS—personal computer/document accountability system

PCE—PAL control equipment

P&CE—plant and capital equipment

pcf—pounds per cubic foot; preferred: lb/ft^3

PCI—1. permanent complete incapacitation
2. pellet-clad interaction

PCL—positive control launch

PCM—1. pulse code modulation 2. pulse count modulation 3. pulse colliding mode locked

PCMDI—program for climate modeling, diagnosis, and intercomparison

PCN—polyurethane-coated nylon

P-Code—precision code

PCP—product change proposal

PCR—program change request

PCS—project (or property) control system

PCSD—programmable communications security device

PC/SPR—portable computer/seal pattern reader

pct—percent (with a number, the symbol % is preferred: 15%)

PCT—1. peak clad temperature 2. Process Certification Team

PCTAP—positive control turnaround point

PCTH—a parallel shockwave physics code

Pd—palladium (chemical symbol)

PD—1. pulse duration 2. pulse Doppler
3. potential difference 4. performance decrement

P_D—probability of detection; sometimes written as P_d

PDA—principal development activity

PDAC—Photovoltaic Design Assistance Center

PDB—power distribution box

PDC—1. power drive controller 2. polycrystalline diamond compact

PDE—partial differential equation

pdl—poundal

PDL—Program Design Language

PDM—1. pulse duration modulation 2. portable data module

PDME—portable data module emulator

PDO—process development order

PDP—1. programmed data processor 2. preferred dentist program

PDR—1. preliminary design review 2. prototype design review

PDS—1. protected distribution system 2. personnel data sheet 3. processing and display system

PDSP—plutonium-dispersed studies program

PDU—process demonstration (or development) unit

PDW—phosphate development works

pe—probable error

PE—1. pyroelectric 2. polyethylene

P&E—personnel and education

PECS—probabilistic evaluation of cladding stress (computers)

PECVP—plasma-enhanced chemical vapor deposition

PED—photoelectric detector

PEEK—polyetheretherketone

PEIS—Programmatic Environmental Impact Statement

PEL—1. property on external loan 2. permissible exposure limit

PEL/MEL—property on external loan/material on external loan

PEM—1. passive environmental monitors 2. production evaluation missile

PENARDS—penetration aids

PEO—program executive officer

PEP—performance enrichment program

PEPCI—providing emergency Presidential communication interface

PEPS—photovoltaic electric power system

PERD—professional experience research and development

PERMITS—plant engineering management information and tracking system

PERSEP—Pershing Survivability Evaluation Program

PERT—program evaluation review technique (computers)

PES—plant electrical system

PETC—Pittsburgh Energy Technology Center

PETN—pentaerythritol tetranitrate (explosive)

PEV—pyroelectric voltage

PEVN—polyethylene co-vinyl nitrate

pF—picofarad

PF—power factor

PFA—power FORTRAN accelerator

PFBC—pressurized fluidized-bed combustion

PFC—plasma facing component

PFM—pulse-frequency modulation

PFMAINT—permanent file maintenance (computers)

pfm/cw—pulse frequency modulated/continuous wave

PFN—1. pulse-forming network 2. prompt fission neutron

PFRP—process to further reduce pathogen

PFS—protected firing station

PGM—precision-guided munition

PGP—professional graphics producer

PGS to PLZT

PGS—perimeter guard station

ph—1. phase 2. phot (illuminance; use *lux* instead)

pH—potential of hydrogen

PHA—preliminary hazard assessment

PHC—1. preferred health care 2. preliminary hazard classification

Ph.D.—Doctor of Philosophy

PERMEX—pulsed high-energy radiographic machine-emitting x rays

PHTS—primary heat transport system

PI—1. principal investigator 2. probability of intercept (see *Pk*) 3. purchasing instruction 4. performance indicator 5. probability of interruption 6. product improvement 7. pressure installer

PIA—1. peripheral interface adapter (computers) 2. parallel interface adapter

PIBAL—pilot balloon

PIC—1. polymer-impregnated concrete 2. polyethylene-insulated conductor 3. Personnel Information Center 4. plastic-insulated cable

PICS—property inventory control system

PID—1. personnel identification device 2. pulse-integrating detector

PIDAS—perimeter intrusion detection and assessment system

PIE—1. post-irradiation examination 2. partners in education

PIF—productivity investment fund

PIFITE—pipe flooding transient (computers)

PIM—pulse interval modulation

PIMS—1. passive infrared motion sensor 2. purchasing information management system

PIN—1. personal identification number 2. P-type, intrinsic N-type

PINEX—pin experiment

PING—pulsed interrogation neutron and gamma (methodology)

PINPAL—physical inventory pallet

PINS—Proliferation Information Network System

PIO—1. programmed input/output 2. peripheral input/output

PIOCS—physical input/output control system (see *LIOCS*)

PIP—1. peripheral interchange program 2. prearm in progress 3. programmable image processor 4. pulsed integrating pendulum

PIPER—pulse-intense plasma for exploratory research

PIR—passive infrared

PIV—positive identity verification

pixel—picture element

P_k or PK—probability of kill (see *PI*)

pkg—package

PI—poiseuille (viscosity)

PL—path length

PLBR—prototype large breeder reactor

PLD—programmable logic device

PLMS—Pylon launcher missile simulator

PLMSCP—Pylon Launcher Missile Simulator Computer Program

PLRS—position locating and reporting system

PLS—prelaunch survivability

PLUTO—prediction of molten-fuel behavior under transient overpower conditions (computers)

PLYWD—precision low yield weapon design (Air Force)

PLZT—lead lanthanum zirconate titanate

p.m.—*post meridiem* (after noon)

Pm—promethium (chemical symbol)

PM—1. phase modulation 2. pulse modulation
3. photomultiplier 4. preventive maintenance
5. project manager 6. particulate matter

PMA—primary management area

PMATS—property management assets tracking system

PMCT—PAL Management Control Team (or Test)

PMF—performance management form

PMI—1. Project Management Institute 2. probable measurement inaccuracy

PMM—pulse mode multiplex

PMMA—polymethyl methacrylate

PMP—1. parts, materials, and processes 2. project (or performance) management plan

PMR—proton magnetic resonance

PMRF—Pacific Missile Range Facility (Navy)

PMS—1. property management system 2. program management system 3. planned maintenance system

PMT—1. Polymicro Technologies 2. process (or performance) management team 3. photo-multiplier tube

PMTF—Plasma Materials Test Facility

PMV—PAL material verifier

P/N—part number

PNA—pulse neutron activation

PNC—Power (Reactor and) Nuclear (Fuel Development) Corp.

PNE—peaceful nuclear explosion

PNET—Peaceful Nuclear Explosions Treaty

PNL—Pacific Northwest Laboratory

PNP—positive-negative-positive (electronics circuits)

PNS—Parabolized Navier-Stokes (computer code)

Po—polonium (chemical symbol)

PO—purchase order

POC—point of contact 2. proof of concept

POCC—Plant Operations Control Center

POC/ET—proof of concept/experimental testbed

POG—project officers group

POINTER—particle orientation interferometer

POLICE—protecting our lives, interests, concerns, and enterprises

POM—program objective memorandum

PONC—price of nonconformance

POP—1. period of performance 2. plan of operations and practices

POPS—probabilistic evaluation of transient overpower cladding stress (a computer program)

PORPLUG—porous plug heat-generating blockage (computer program)

pos—positive

POS—point of sale

Post-IOC—post-initial operational capability

POTAS—program for technical assistance (to IAEA) safeguards

POTU—Pershing operational test unit

POTW—publicly owned treatment work

pp—pages

PP—1. peak to peak 2. pilot production 3. Pinellas Plant (formerly GENDD)

ppb—parts per billion

PPBS—planning, programming, and budget system

PPC to PRP

PPC—production process characterization

PPCM—portal perimeter continuous monitoring

PPE—1. personal protection equipment 2. PAVE PAWS East

PPI—process prove-in

PPL—preferred parts list

P-Plan—programming plan

ppm—parts per million

PPM—pulse position (or pulse phase) modulation

PPMO—Pershing Project Management Office

P&PO—Planning and Programming Order

PPPD—pilot-production program definition

PPPL—Princeton Plasma Physics Laboratory

PPRC—Pulsed-Power Research Center

pps—pulse per second

PPS—1. plant protection system 2. plutonium protection system 3. physical protection system 4. preliminary planning schedule

PPSC—Pulsed Power Safety Committee

PPSE—PAVE PAWS Southeast

PPSW—PAVE PAWS Southwest

ppt—parts per thousand

PPT—performance prototype trough

PP/TMS—pilot production/tool-made sample

PPW—PAVE PAWS West

PQ—product qualification

PQA—1. President's Quality Award 2. preliminary quality assessment

PQMI—process quality management and improvement

PQT—product quality team (obsolete; changed to qualification evaluation team)

Pr—praseodymium (chemical symbol)

PR—1. purchase requisition 2. public relations 3. personnel representative

PRA—1. probabilistic risk assessment (or analysis) 2. programmatic risk assessment 3. PAL recode adapter

PRAI—PAL recode adapter interface

PRAM—parameter RAM

PRC—1. programmatic risk classification 2. Peoples' Republic of China

PRCF—Plutonium Recycle Critical Facility

PRCR—purchase requisition/change requisition

PRD—primary responsible organization

PRDA—program research and development announcement

PREP—Production Risk Evaluation Program

PRESS-CM—pit reuse for enhanced safety and security cruise missile

PRF—pulse repetition frequency

pri—primary

PRISM—physically reasonable infrared signature model

PRLS—portable, reconfigurable line sensor

PRO—primary responsible organization

PROM—programmable read-only memory

PRONTO—SNL mechanic code (dynamic) (see SANTOS)

PROTEC—programmable ordnance technology

PROVCORPSV—Provisional Corps, Vietnam

PRP—1. pulse repetition period 2. personnel reliability program

PRR—1. pulse repetition rate 2. protective response recommendation

PRRS—penetration resistance rating system

PRS—1. personnel reporting system 2. plasma radiation source

PRSC—Purchase Requisition Service Center

PRT—platinum resistive thermometer

PRVM—peak-reading voltmeter

ps—picosecond

PS—1. product specification (drawing number)
2. primary specification

P&S—1. production and systems 2. production and surveillance

PSA—1. Presidential Special Aircraft (Andrews AFB, MD) 2. power switching assembly 3. PAL switch adapter

PSAC—Pressure Safety Advisory Committee

PSAR—preliminary safety analysis report

PSC—1. protective sample container 2. Principal Subordinate Command (NATO)

psi—pounds per square inch; also *lb/in²*

PSI—personnel security interview

psia—psi absolute

psig—psi gauge

PSK—phase-shift keying (see FSK)

PSM—program support manager

PSN—prototype secure network (computing)

PSO—program senior officials

PSP—Pension Security Plan

PSPM—Pressure Safety Practices Manual

PSR—1. program status review 2. perfectly stirred reactor

PSS—1. pressure-sensitive seals 2. perimeter surveillance system

PSU—1. program storage unit 2. portable surveillance unit

PSZT—lead tin zirconium titanate

PT—1. production type 2. Pigmy Trilock (connectors) 3. point 4. product tester (as in PT3003) 5. property transfer

P&T—packaging and transportation

PTC—Pentagon Telecommunications Center

PTD—product test data

PTF—phase transfer function

PTFE—polytetrafluorethylene

PTM—1. pulse time modulation (or multiplex)
2. pan/tilt mount

PTR—pressure test record

PTT—Postal Telephone and Telegraph

PTTSA—pre-Tiger Team self-assessment

PTV—parachute test vehicle

Pu—plutonium (chemical symbol)

Pub—publication

PUC—PAL unit card

PUPS—pick-up points

PUREX—plutonium-uranium reduction extraction

PV—photovoltaics

PVA—photovoltaic array

PVDF—polyvinylidene difluoride

PVE—preset/verify/execute

PVT—pressure-volume-temperature

PVTB—productivity validation testbed

pW to QP

pW—picowatt

PW—pulse width

PWA—1. process waste assessment 2. printed wiring assembly

PWB—printed wiring board

PWC—password control

PWDR—preliminary weapon development report

PWG—Prioritization Working Group

PWM—pulse-width modulation

PWR—pressurized water reactor

PWT—parachute wind tunnel

PX—Pantex Plant

PXD—manganin wire pressure transducer

Pz—pi ze (pressure)

PZT—lead zirconate titanate

Q

Q—quality (one of the three Corporate values) (See L and T)

QA—quality assurance

QAA—Quality Assurance Agency (DOE)

QAER—qualification acceptance equipment release

QAIA—Quality Assurance Inspection Agency (DOE)

QAIP—quality assurance inspection procedures

QAP—quality assurance procedure (or program)

QAPPC—Quality Assurance Program Planning Committee

QAR—quality action request

QASL—Quality Assurance, Sandia (National) Laboratories

QAST—quality assurance service test

QAT—quality action team

QATI—quality assurance test instructions

QAVI—quality assurance verification instructions

QBE—query by example

QBF—query by form

QC—1. quality control 2. quality circle 3. quality criteria

QCD—quantum electrodynamics

QCR—quality control/reliability

QD—quality/distance

QDA—quartz-based digital accelerometer

QED—quantum electrodynamics

QEP—quality engineering project

QER—qualification evaluation release

QERD—qualification evaluation research for dismantlement

QEST—quality evaluation systems tester

QET—qualification evaluation team (formerly PQT)

QFD—quality function deployment

QIP—quality improvement project

QIPM—quality improvement process management (see *QPMI*)

QIT—quality improvement team

QLORD—quantum-limited optical resonance detector

Qm—quartermaster

QML—qualified manufacturers' list

QMS—quality management system

QNOW—quality news on weapons

QP—1. quartz phenolic 2. quality plan 3. quick pay

QPL—qualified parts list

QPMI—quality process management and improvement (AT&T training; see *QIPM*)

QRA—1. quick reaction alert 2. qualitative risk analysis

QS—1. qualification sample 2. quality system

QSC—quality steering council

QSG—quality support group

QSI—Quantum Systems, Inc. (Albuquerque)

QSP—questionnaire for sensitive positions

qt—quart

QTE—qualification testing evaluation

qtr—quarter

qty—quantity

quad—quadrant

qual—qualitative

QUEST—quality-enhancement strategies

QUIC—quasi-instantaneous control

QWL—quality of work life

R

r—radius

R—1. roentgen (see *rad*) 2. resistance

°R—degrees Rankine (e.g., 99°R), used in the Rankine temperature scale

R1, R2—Range 1, Range 2

R²—rewards and recognition

R_A—Rockwell, "A" scale hardness

R_B—Rockwell, "B" scale hardness

RA—relay assembly

RAC—Research Advisory Committee

RACS—remote access system

rad—1. radian (plane angle) 2. radiation absorbed dose 3. unit of absorbed radiation dose liberating 100 ergs of energy per gram or 10⁻²J/kg (supersedes the roentgen)

RAD—1. radiation absorbed dose 2. random-access device

radar—radio detection and ranging (originally an acronym but now accepted as a word)

RADCON—radiation contamination

RADEC—radiation detection capability

RADEX—radiation exposure

RADIAC—radiation detection indication and computation

RADINT—radar intelligence

RADM—Rear Admiral

rad/s—radians per second (preferred over *rad/sec*)

RAE—Royal Aircraft Establishment

RAeS—Royal Aeronautical Society

RAF—Royal Air Force

RAISE—Rural American Indian Science Education

RAL—recommended allowance list

RAM—1. random-access memory 2. read-and-modify memory (digital controllers) 3. radioactive material 4. RADEC analysis and monitor 5. rocket-assisted mode 6. radar-absorbing (or absorption) material 7. radiation area monitor 8. reliability, availability, and maintainability

RAMS—1. remote atmospheric monitoring system 2. radiation area monitor system

RAN—Restricted Access Network

RAP—Restricted Access Program

RAPADS to REB

RAPADS—rapid (deployment) access delay system

RAPID—1. radiation pattern identification
2. retrofit-assisted parachute in-flight delivery

RAPRENOX—rapid reduction of nitrogen oxides

RAS—1. roof antenna system 2. reactor analysis and safety

RASER—radio-frequency amplification by stimulated emission of radiation

RASLE—radiating and absorbing shock layer equilibrium

RASSPVDN—random sphere (model of) simultaneous particle and vapor deposition

RATLER—robotic all-terrain lunar exploration radar

RATT—radioteletype

RB—1. reentry body 2. rule based

RBA—reentry body assembly

RBE—relative biological effectiveness (of radiation)

RBFTU—rebuild flight test unit

RC—1. radiochemical 2. reinforcing capability

R-C—resistance capacitance

RCA—1. root cause analysis 2. Radio Corporation of America

RCAF—Royal Canadian Air Force

RCD—release circuits disconnect

R&CG—Resource and Coordination Group

RCI—receipt for classified information

RCRA—Resource Conservation and Recovery Act

RCS—1. reaction control system 2. radar cross section

RCSM—radar cross-section measurement

RCU—reference control unit

rd—rutherford (a unit of the decay rate of radioactive material)

RD—restricted data

R&D—research and development

RDA—Research and Development Associates (DNA subcontractor)

RD&A—research, development, and application

R to D to A—research to development to application

RDD—radiation dispersal device

RD&D—research, development, and demonstration

RDE—radiation-detection equipment

RD&E—research, development, and engineering

RDF—radio direction finder

RDJTF—Rapid Development Joint Task Force

RDRF—receive data register full (computers)

RDS—records depository system

RDТ—reactor development and technology

RD&T—research, development, and testing

RDТ&E—research, development, testing, and evaluation

RDU—1. remote data unit 2. RADEC data unit

RDX—abbreviation for the explosive cyclomite

RE—rare-earth

R&E—research and engineering

REA—retard airburst

REAC/TS—Radiation Emergency Assistance Center/ Training Site (Oak Ridge, TN)

REASURE—reporting evaluation auditing system for unsatisfactory reports

REB—relativistic electron beam

REBA —relativistic electron-beam accelerator	RFA —request for analysis
RECAP —review and command assessment of projects	RFAO —Rocky Flats Area Office (DOE)
RECCE —reconnaissance	RFCS —request for change of scope
REDAR —radiation and environmental data acquisition and recording	RFD —1. rotating flexible decelerator 2. reduced forward deployment 3. radio frequency detection
REDCOM —readiness command	RFF —response force facility
redox —reduction oxidation	RFFS —request for facilities support
REEC —Reynolds Electrical and Engineering Co. (subsidiary of EG&G, Inc.)	RFI —1. radio-frequency interference 2. request for information
ref —reference	RF/MW —radio frequency and microwave (frequency)
ref sym —reference symbol (also RS)	RFP —1. request for proposal (DOE) 2. Rocky Flats Plant (EG&G)
REG —1. range extender with gain 2. retard ground	RFQ —request for quote
REGAL —report generator algorithm reporting	RFT —response force time
rem —roentgen equivalent man (or mammal) (use sv for sievert instead)	RGB —red, green, blue
REM —1. recovery exercise module 2. recognition memory (computers)	RGC —Rio Grande Chapter (Local Chapter of the Project Management Institute)
REMBASS —remote battlefield sensor system	RGH —rare-gas halogen
rep —roentgen equivalent physical (a unit of ionizing radiation)	RGZ —recommended ground zero
RER —relative encryption range	Rh —rhodium (chemical symbol)
RES —remote equipment shelter	RII —relative humidity
RESL —Radiological and Environmental Science Laboratory	RHALE —robust hydrodynamics arbitrary Lagrangian Eulerian
REST —retrofit evaluation system test	RHCP —right hand circularly polarized
Ret —retired	RHEPP —repetitive high-energy pulsed power
RETA —R. E. Timm & Associates	RHIC —radiation-hardened integrated circuit
RET-ER —retirement engineering release	RHM —roentgen per hour at one meter
rev —revolution	RHO —Rockwell-Hanford Operations
rev/s —revolutions per second; <i>rps</i> is preferred	RH-TRU —remote handled transuranic waste
RF —1. radio frequency 2. response force 3. Rocky Flats 4. research foundation	RI —1. radio interference 2. Rockwell International 3. responsible individual

RIA to ROMC

RIA—1. Robotics Industries Association 2. range insensitive axis

RIB—reference information base

RIC—1. resistance inductance capacitance 2. Rare-Earth Information Center

RID—requirements identification document

RIMS—roll-stabilized inertial measurement system

RIMU—reentry inertial measurement unit

RIOM Manual—RACON Installation, Operation, and Maintenance Manual

RIP—1. retirement income plan 2. rapid interface phototyping

RIPE—robot independent programming environment

RIPL—robot independent programming language

RISC—reduced instruction set computer

RIT—record (or receipt) of internal transfer

RIU—radar interface unit

RL—radioluminescent

RLCU—remote launch control unit

RLGA—ring laser gyro assembly

RLPG—regenerative liquid propellant gun

RMA—return material authorization

RMAP—Risk Management Action Plan

RMF—remote monitoring facility

RMIEP—risk methodology integration and evaluation program

RML—1. remote maintenance line 2. reactive multi-layers

RMMA—radioactive material management area

RMP—Risk Management Program

rms or RMS—root-mean-square

RMS—rotating mass storage

RMSEL—Robotics Manufacturing, Science, and Engineering Laboratory

RMT—remote maintenance terminal

RMWS—rail mobile weapon system

Rn—radon (chemical symbol)

RN—regency net

RNLN—Royal Netherlands Navy

$r\Omega c$ —reciprocal ohm centimeter (electrical conductivity)

$r\Omega m$ —reciprocal ohm meter

RO—retrofit order

ROA—record of assembly

ROADS—range optimal advanced-development system

ROBAT—robotics obstacle breaching assault tank

ROBCOM—robot communication

ROC—1. required operation characteristics
2. required operation capability

ROCAPS—remote operation of cask penetration system

ROCOMP—radio- or computer-operated mobile platform

ROD—1. record of decision 2. record of disassembly

RODAN—robotic optical disk access node

ROI—return on investment

ROK—Republic of Korea

ROM—1. read-only memory (computers) 2. rough order of magnitude

ROMC—read-only memory control

ROO—record of origination

RORSAT—radar ocean-reconnaissance satellite

ROSES—remote oscilloscope sealed environment system

ROTL—remote office test line

ROV—remotely operated vehicle

ROVER—remotely operated vehicle for emplacement and reconnaissance

RP—1. radiation protection 2. rendezvous point
3. Reynold part (followed by the part number)

RPC—remote procedure cells

RPDL—Rapid Prototype Development Laboratory

RPG—rocket-propelled grenade

Rph—roentgens per hour

RPL—reactor-pumper laser

rpm—revolutions (or rate) per minute (see rps)

rps or rev/s—revolutions per second (*rps* is preferred)

RPU—receiver/processor unit

RPV—remotely piloted vehicle

RQ—reportable quantities

RQP—responsibilities, qualifications, and performance (ES&H)

R/R—recapture/recovery

RRA—Radiation Research Associates, Inc.

RRPS—robotic reconnaissance point sensor

RRR—reduced residual radiation

RRRV—rate of rise of recovery voltage

RRSAS—robotic radiation survey and analysis system

RRV—robotics reconnaissance vehicle

RS—1. reentry system 2. reference symbol (also abbreviated: ref. sym.)

r/s—revolutions per second (*rps* is preferred)

RSA—reimbursable (or reimbursement) spending account

RSAD—requirements and self-assessment database

RSAS—regional seismic array system

RSCG—Revolutionary Security Concepts Group

RSE—receiver shield enclosure

RSI—reactor safeguards information

RSL—Remote Sensing Laboratory (Las Vegas, NV)

RSLP—reentry systems launch program

RSNF—Royal Saudi Naval Forces

RSP—1. render-safe procedure 2. rapid solidification processing

RSPA—Research and Special Programs Administration

RSS—1. reactor safety study 2. remote security station 3. relay station status 4. remote subsystem

RSSPS—remote sensor system for physical security

RSTA—reconnaissance, surveillance, and target acquisition

RSTAKA—reconnaissance, surveillance, target acquisition, kill, and assessment

RSTN—regional seismic test network

RSV—robotic security vehicle

RSVP—1. Remote Sensing and Verification Program 2. Retired Senior Volunteer Program

rt or RT—1. room temperature 2. rise time

RT—1. room temperature 2. rise time 3. real time

RTAF—read-time aperture flux

RTB—1. reentry thermal battery 2. robotic testbed

RTDM—remote transponder data modules

RTECS to SAIR

RTECS—registry of toxic effects of chemical substances

RTG—radioisotope thermoelectric generator

RTL—resistor-transistor logic (computers)

RTO—rail transportation office

RTP—1. restructured test program 2. rapid thermal process

RTR—routine technical report

RTS—return from subroutine

RTV—room-temperature vulcanizing (or vulcanized)

RUPL—radar-updated path length

RV—1. reimbursement voucher 2. reentry vehicle

RVA—radar (or range), velocity, and attenuation

RVB—retractable vehicle barriers

RWA—reaction wheel assembly

R wave—Rayleigh wave (seismology)

RWMC—Radioactive Waste Management Complex

RwoH—reliability without hermeticity

Ry—rydberg (see kayser)

S

s—second

S—1. survivable 2. sulphur (chemical symbol)
3. siemens

S²—safeguards and security

S³—safety, security, and survivability

SA—1. Sandia (National Laboratories) apparatus
2. storage activities 3. staging area 4. standard assembly 5. self-assessment

SAALC—San Antonio Air Logistics Center

SAAT—Sandia Accessibility Advocacy Team

SABRE—Sandia accelerator and beam research experiment

SAC—1. Sandia auxiliary closure 2. Strategic Air Command

SACCS—SAC Command Control System

SACEUR—Supreme Allied Commander, Europe (NATO)

SACLANT—Supreme Allied Commander, Atlantic

SACNET—Secure Automatic Communication Network (DOE)

SACR—SAC Regulation

SACROC—Strategic Air Command required operational characteristics

SACS—safeguards alarm and communications system

SADARM—search-and-destroy armament

SADCAT—structural analysis of 3-D core assembly transient (a computer program)

SADM—small (or special) atomic demolition munition

saf—safed

SAF—1. security automated fabrication 2. safe, arm, and fuze

SAFE—1. safeguards automated facility evaluation 2. Sandia award for excellence

SAFER—security and force-protection enhancement resources

SAFF—safe, arm, fuze, and fire

SAFM—safe monitor

SAGE—semi-automated ground environment

SAHP—solar-augmented heat pump

SAI—Science Applications, Inc. (La Jolla, CA)

SAIC—Science Applications International Corp.

SAIR—safe and in-range

SAK —a one-dimensional kinetics computer code	SARA —Superfund Amendment and Reauthorization Act
SAL —Safeguards Analytical Laboratory (Seibersdorf, Austria)	SARF —special airburst radar fuze
SALAD —1. slide-actuated, laser-armed detonator 2. seismic acoustic low-altitude aircraft detector	SARL —Sandia Aerosol Research Laboratory
SALE —safeguards analytical laboratory evaluation	SAROS —synthetic aperture radar for open skies
SALOGS —Sandia logic simulation	SARP —1. safety analysis report for packaging 2. severe accident risk program
SALSIM —SALOGS simulation	SAS —1. safety analysis system (computers) 2. statistical analysis system 3. sealed (or secure) authentication system 4. secondary alarm station 5. Senate Armed Services (Committee)
SALT —Strategic Arms Limitation Talks	SASA —severe accident sequence analysis
SAM —1. sensor access manager 2. surface-to-air missile 3. scanning Auger microscope	SASL —a stress computer code
SAMP —Sickness Absence Management Plan	SASP —special ammunition supply point
SAMPE —Society for the Advancement of Material and Process Engineering	SASS —1. special aircraft stores shop 2. sequential access storage system
SAMS —Sandia/Air (Force) Materials Study	SAT —1. security alert team 2. supervised autonomous testbed 3. staff assistant technical 4. satellite 5. Scholastic Aptitude Test
SAMSO —Space and Missile Systems Organization	SATC —seismic/acoustic target classifier
SAMSON —semiautonomous mobile system for ordnance neutralization	SATCAP —satellite capability
SAMT —state-of-the-art medium terminal	SATCOM —satellite communications
SAN —San Francisco Operations Office (DOE)	SATIN —SAC AUTODIN teletype interface
SANDAC —1. Sandia data acquisition computer 2. Sandia airborne computer 3. Sandia aerospace computer	SATTLIF —Sandia Transportable Triggered Lightning Instrumentation Facility
SAND DEVIL —Sandia digitally encoded video junk	SAVI —systematic analysis of vulnerability to intrusion
SANDUS —Sandia digital underground system	SAW —1. surface acoustic wave 2. squad automatic weapon
SANTOS —SNL mechanic code (static) (see PRONTO)	SAWE —Sandia water-entry
SAO —Sandia Area Office (DOE)	SAXS —small-angle x-ray scattering
SAP —1. simulation administration program 2. special access program	Sb —1. stibium (antimony) (chemical symbol) 2. stilb (optics)
SAR —1. safety analysis report 2. synthetic aperture radar	SB —1. small business 2. surface burst

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

2 of 2

SBA—Small Business Administration

SBC—single-board computer

SBEL—Structural Behavior Engineering Laboratory
(Phoenix, AZ)

SBIR—small business innovation resource

SBIRCCD—Schottky barrier infrared charge-
coupled device (a computer program)

SBX—single-board extension

S²C—safety, security, and control

Sc—scandium (chemical symbol)

SC—1. shape component 2. separable component

SCA—Service Contract Act

SCALEBOARD—NATO designation for Soviet
SS-12 missile

SCARS—1. Status, Control, Alerting, and Reporting
System (NATO) 2. System Control and Receiving
Station

SCB—1. semiconductor bridge 2. Sandia
Classification Bulletin 3. sliding crash beam

SCBA—self-contained breathing apparatus

SCC—1. stress corrosion cracking 2. SECOM
Control Center 3. Security Control Center
4. Switching Control Center 5. Security
Command Center (SNL) 6. Sandia Compens-
ation Council 7. Sandia Computer Committee

SCCF—sprayed chopped-carbon fiber

SCCM—standard cubic centimeters per minute

SCCS—1. Safeguards Central Control System
2. Safeguards Control and Communications
System 3. source code control system
4. single-code coded switch

SCCT—survivable command center technology

SCD—source control drawing

SCDC—signal certification device coder

SCDR—Sandia Corporation Development Report
(one of the designations for early SAND reports;
now obsolete)

scfh—standard cubic feet per hour

SCI—sensitive compartmented information

scf—standard cubic feet

SCIAD—science advisor (SNL)

SCILS—sensitive countries information logging
system

SCIS—1. Security Configuration Information System
2. Service Center Integrated System 3. Service
Center Information System 4. Survivable
Communications Integration System

SCISEARCH—Science Citation Index Search

SCM—1. sensor capabilities modeling 2. small-core
memory 3. statistical crack mechanics

SC-M—Sandia Corporation Miscellaneous (one of the
designations for early SAND reports; now obsolete)

SCN—Sandia Computing Newsletter

SCNMTAA—South Central New Mexico Technicians
Affiliate Association

SCORE—Service Corp of Retired Executives

SCORES—scenario-oriented recurring evaluation
system

SCP—1. Squadron Command Post 2. shelter
control panel 3. secure conferencing project

SCPR—Sandia Corporation progress report (one of
the designations for early SAND reports; now
obsolete)

SCPV—safeguards coordination and performance
verification

SCR—1. silicon controlled rectifier 2. Sandia
contracting representative (buyer)
3. Semiconductor Research Corporation

SCRR—Sandia Corporation research report (one of
the designations for early SAND reports; now
obsolete)

SCS—1. secure container system 2. supplementary cooling system 3. Sandia Contracting Specialist

SCSC—Small Computer Support Center

SCSD—secure codes storage device

SCSI—small computer system interface

SCSP—single-crystal silicon photovoltaics

SCSR—Sandia Corporation Systems Report (one of the designations for early SAND reports; now obsolete)

SCT—stockpile confidence test

SCTIS—single-channel transponder injection system

SCTM—Sandia Corporation Technical Memorandum (obsolete; now SNL Internal Memorandum)

SCWD—Sandia Corporation Weapon Development (one of the designations for early SNL SAND reports; now obsolete)

SCWO—supercritical water oxidation

SD—1. self-destruct 2. standard deviation 3. source data

SDA—1. source data acquisition (computers) 2. system design alternatives

SDACS—stored data acquisition system

SDB—small disadvantaged business

SDC—Strategic Defense Command

SDD—1. safety determination documentation 2. system design description (or document)

SDDB—stockpile dismantlement database

SDDM—Secretary of Defense Decision Memorandum

SDF—Strategic Defense Facility

SDI—1. strategic defense initiative 2. selective dissemination of information

SDL—Spectra Diode Laboratories

SDM—scanning detection mode

SDMS—shared document management system

SDP—subseabed disposal program

SDR—1. systems design review 2. Sandia delegated representative 3. spin dependent recombination

SDT—1. shock detonation transition 2. signal data translator

SDU—slave display unit

SDW—special development warhead

SDWA—Safe Drinking Water Act

SE—standard error

SEA—Statement of Employee Account

SEAB—Secretary of Energy Advisory Board

SEAD—safeguards engineering and analysis database

SEAL—sea-air-land (observation)

SEAM—spin ejector adapter module

SEARA—stockpile evaluation and reliability assessment

SEASAT—SEAL (observation) satellite

SEAV—security enhancement to Area V (Sandia/NM)

SEB—Source Evaluation Board

SEBAS—scattering of electrons by atomic systems (a computer code)

sec—1. secure 2. secant

SEC—1. secondary electron conduction 2. Sandia ES&H Council 3. securities and exchange commission

SECAS—security assurance

SECDEC—single error correcting, double error correcting

SECDEF or SecDef to SFMT

SECDEF or SecDef—Secretary of Defense

SECOM—security communications

SECSY—spin-echo correlated spectroscopy

SED—1. stockpile entry date 2. skin erythema dose (radiation) 3. statistical experimental design

SEDO—specified external distribution only (obsolete; use a current unclassified release statement)

SEEK-TALK—jam-resistant radio (USAF)

SEES—security exercise evaluation simulation (or system)

SEFOR—southeast fast oxide reactor

SEI—space exploration initiative

SEIS—Supplemental Environmental Impact Statement

SEL—special equipment list

SEM—1. scanning electron microscopy
2. sensor and environment monitor
3. Society of Experimental Mechanics
4. science, engineering, and mathematics

SEMATECH—semiconductor manufacturing technology

SEMS—seafloor earthquake measurement system

SEMY—summer employment (for) minority youth

SEN—Secretary of Energy Notice

SENLEX—sensor layout expert (system)

SEP—1. spherical error of probability 2. selective employment package 3. systematic evaluation program 4. surface electrical potential

SEPUP—Science Education for Public Understanding Program

SEPW—strategic earth-penetrator weapon

seq—sequence

SEQR—stockpile evaluation qualification release

SER—1. Safety Evaluation Report 2. Stockpile Emergency Report

SERF—Sandia Engineering Reactor Facility

SERI—Solar Energy Research Institute

SERIP—SIGINT/EW Readiness Improvement Program

SERP—Sandia employee recreation program

SERS—surface-enhanced Raman spectroscopy

SES—1. Standards Engineers Society 2. system external specifications 3. stationary energy storage

SETAF—Southern European Task Force (Army)

SETEC—Semiconductor Equipment Technology Center

SETS—set equation transformation system (computer programming)

SEU—single-event upset

SEV—stockpile emergency verification

SE/VMS—security-enhanced virtual memory system

SF—1. security force 2. special forces

SFA—security fault analysis

SFD—system field demonstration

SFE—1. Sandia-furnished equipment 2. slim loop ferroelectric

SFEE—small forces engagement exercises

SFFT—superconducting flux-flow transistor

SFI—significant finding investigation

SFIR—significant finding investigative report

SFIS—striped-filter image sensor

SFK—special-function keyboard

SFMT—San Francisco-Moscow teleport (an electronic bulletin board)

SFRD —secret, formerly restricted data	SIDAS —sodium iodide detector (response) analysis software
SFT —stockpile flight test	SIDSS —Sandia irradiator for dried sewage solids
SG —1. superconducting generation 2. silicon gate	SIED —sophisticated improvised explosive device
SGC —Space General Corporation	SIER —special instruction engineering release
SGEMP —system-generated electromagnetic pulse	SIEX —steady-state in-pile behavior of mixed-oxide fuels (a computer program)
SGM —spark-gap modulation	SIG —1. special-interest group 2. selenide-isotope generator
SGML —standard generalized markup language (international standard for text markup)	SIGDISC —special-interest group (for optical) disks
SGT —1. secure ground transport 2. safeguards transport	SIGINT/EW —Signals Intelligence Early Warning
SHAC —solar heating and cooling	Sigma —a weapon data access designator
SHAD —Sandia helicopter acoustic detector	SIK —system independent kernel
SHAPE —Supreme Headquarters Allied Powers, Europe	SIMD —single instruction, multiple data
SHEAC —Safety, Health, and Environment Appraisal Committee	SIMOX —separation by implementation of oxygen
SHED —solar heat-exchange drive	SIMPLE —subassembly interchange mixing program for flow effects (a computer program)
SHEE —safe high-energy explosive	SIMS —Sandia intruder motion simulator
SHF or shf —super-high frequency	sin —sine
SHORAN —short-range (radio)	SIN —Site Information Network
SHRP —Strategic Human Resources Plan	SINGARS —single-channel ground and aircraft radio system
Si —silicon (chemical symbol)	SIOP —Single Integrated Operational Plan
SI —1. <i>Système International d'Unités</i> (International System of Units) 2. security inspector 3. Special Intelligence 4. storage inspection	SIP —1. stockpile improvement program (or plan) 2. shock-induced polarization
SIAM —self-initiated attack missile. (Also known as "Little David")	SIPE —soldier integrated protective ensemble
SIC —standard industrial classification	SIPI —Southwestern Indian Polytechnic Institute
SICADS —site-independent configurable alarm display system	SIR —1. Sandia (National Laboratories) interior robot 2. semi-annual inventory report
SICBM —small intercontinental ballistic missile	SIRAS —Sandia Independent Review and Appraisal System
SICBM/HML —SICBM/hard mobile launcher	SIREN —search intercept retrieve expulsion nuclear

SIS to SMCTF

SIS—1. Safeguards Information System
2. Superconductivity Information System
3. system internal specifications
4. shaft instrumentation system

SIT—1. sonar impingement test 2. silicon intensified target 3. system interface test

SITAN—Sandia inertial terrain-aided navigation

SITV—Stanford Instruction Television

SIVC—systematize, internationalize, vitalize, and commercialize

SJSSA—Sandia Jump Start Self-Assessment

SKEDS—Sandia/Kirtland Emergency Database System

SL—strong-link (adjective); strong link (noun)

SLA—1. Sandia Laboratories, Albuquerque (obsolete; changed to SNL/New Mexico) 2. sequential launch adapter 3. sea, land, and air

SLAP—saboted light-armor penetrator (or penetration)

SLAR—side-looking airborne radar

SLATEC—Sandia/LANL AFWL Technical Exchange Committee

SLATS—solar linear array thermal system

SLAVE—Sandia Laboratories Augmented VAX Editor

SLBM—submarine-launched ballistic missile

SLC—subscriber loop carrier

SLCM—sea-launched cruise missile

SLEDS—Sandia Laboratories engineering drawing standards

SLFCU—Sandia Laboratories Federal Credit Union

SLFE—slim loop ferroelectric

SLI—Sandia Laboratories Instruction (obsolete; now Sandia Laboratories Policy)

SLIC—Sandia Laboratories Information Center

SLIFER—shorted location indication from electrical resonance

SLIM—Sandia/LANL interface mockup

SLIME—sublethal interdicting materials experiment

SLIS—Sandia Livermore Information Systems

SLL—Sandia Laboratories, Livermore (obsolete; now SNL/California)

SLM—1. standard liters per meter 2. subscriber loop multiplex

SLP—Sandia (National) Laboratories Policy (formerly SLI)

SLS—1. strained-layer superlattice 2. strained-layer semiconductor 3. strong-link switch 4. selective laser sintering

SLSC—small linear-shaped charge

SLT—stockpile laboratory test

SLUMPY—fuel slumping (a computer program)

SLWPG—Senior-Level Weapons Protection Group

Sm—samarium (chemical symbol)

SM—1. status messages 2. standard missile (Navy)

SMAC—shipment mobility accountability collection

SMART—sequential modular architecture for robotics and telecommunication

SMARTS—Sandia modular advanced reconfigurable telemetry system

SMARTWELD—computerized system for rapid-response manufacturing

SMAS—switched maintenance access system

SMC—system monitor and control

SMCS—surveillance monitoring and control subsystem

SMCTF—Solar Materials and Components Test Facility

SMD—surface mount device

SMDC—supervisors' management development course

SME—Society of Manufacturing Engineers

SMERF—Smoke Emission Reduction Facility

SMES—superconducting magnetic energy storage

SMFAS—simplified modular frame assignment system

SMI—1. salary merit increase 2. static memory interface (microprocessors)

SMLM—Soviet Military Liaison Mission

SMMP—Special Microelectronics Master's Program

SMOL—strained-metal overlayers

SMP—1. Software Management Program 2. Special Master's Program

SMPC—specialty metals processing consortium

SMS—site management system

SMTS—senior member of technical staff

SMUG—Sandia Macintosh Users' Group

sn—sensor

S/N or SN—1. signal to noise 2. stock number 3. serial number

SNA—systems network architecture

SNAFU—situation normal, all fouled up

SNAP—1. systems for nuclear auxiliary power 2. safeguards network analysis procedure

SNEC—Subgroup on Nuclear Export Coordination

SNF—short-range nuclear force

SNIPER—subnanosecond impulse radiator

SNL—When referring to a specific Sandia location, use the formal (Sandia National Laboratories), informal (Sandia), or acronym (SNL) name as appropriate, with the state name following, separated by a slash.

Examples: 1. Sandia National Laboratories/New Mexico is the site of PBFA II. 2. The Combustion

Research Facility at Sandia/California develops and applies new research tools to problems in combustion research.

Note: For internal audiences and others familiar with Sandia, the short forms "Sandia/NM" and "Sandia/CA" may be used. Facilities may also be referred to as "the California laboratory" and the "New Mexico laboratory." Sandia Corporation is the official corporate name. Use it in legal and official documents, contracts, or leases.

SNLESC—SNL Electrical Safety Committee

SNM—1. strategic nuclear material 2. special nuclear material

SNOBOL—string oriented symbolic language (A computer language developed by Bell Labs.)

SNORT—supersonic naval ordnance research track

SNOS—1. silicon nitrate oxide semiconductor 2. silicon nitride oxide silicon

SNR—1. sodium-cooled nuclear reactor 2. signal-to-noise ratio

SNS—Sandia Notification System

SNTP—space nuclear thermal propulsion (or program)

SNU—solar neutrino unit

SNUPPS—standardized nuclear unit power plant system

SOA—systems ordering agreement

SOAR—Space Operations and Applications Research

SOC—1. security operations computer 2. security overpack container

SOCOM—special operations command

SODAS—Sandia optical disk archival system

SOF—Special Operations Forces

SOFPARS—Special Operations Forces Planning and Rehearsal System

SOH—state of health

SOI—silicon-on-insulator

sol to SPST

sol—soluble

sol-gel—solution gelation

SO/LIC—special operations/low intensity conflict

soln—solution

SOMNET—Sandia (Labs) Open Mail Network

sonar—sound navigation and ranging

SOP—Standard (or Safe) Operating Procedure (ES&H)

SOR—1. specific operational requirement 2. service order request

SOS—1. silicon-on-sapphire (memory) 2. self-optimized sector (a code)

SOTAS—standoff target acquisition system

SOTF—security operations training facility

SOUTHCOM—Southern Command

SOW—1. statement of work 2. standoff weapon

sp—1. special 2. specific

SP—sparkplug

S&P—synthesis and processing

sp act—specific activity

SPADAT—space detection and tracking

SPADIS—Space Defense Information System

SPADOC—Space Defense Operations Center

SPAT—strategic plan accountability team

SPC—1. statistical process control 2. switching power combiner

SPCC—Spill Prevention Countermeasure and Contingency (Plan)

SPCDS—small permanent communications and display segment

SPD—summary plan description

SPDT—single pole, double throw (electrical switch)

spec—specification

SPETsNAZ—American Translation: Soviet Special Forces

SPFE—special projects flight experiment

SPG—single-point ground

sp gr—specific gravity

sp ht—specific heat

SPIC—serial/parallel/interrupt controller (card)

SPIE—Society of Photo-Optical Instrumentation Engineers

SPIR—short perimeter intrusion radar

SPIRITS—spectral and in-band radiometric imaging of targets and scenes

SPL—1. sound pressure level 2. semiconductor packaging laboratory 3. self-propelled launcher 4. spare parts list 5. silent-power limited

SPLTS—Special Private Line Telephone System

SPMS—Safety Performance Measurement System

SPMT—Small Project Management Team

SPN—stop-production notice

SPO—1. security police officer 2. Special Projects Office (Navy)

SPOT—*Satellite pour l'Observation de la Terre*

SPR—1. Sandia Pulsed Reactor 2. strategic petroleum reserve

SPRINT—Sub-Program (Manager) Integration Team

sps or SPS—samples per second

SPS—1. sun-present sensor 2. simplified processing station 3. sample protection system

SPSE—savings plan for salaried employees

SPST—single pole, single throw (electrical switch)

SPT —signal processor and timer	SRCS —Sandia Radiological and Criticality Safety Committee
SPUR —space power unit reactor	SRD —secret restricted data
SPV —small projectile vault	SRE —subsystem research experiment
sp vol —specific volume	SREMP —source-region electromagnetic pulse
sq —square (use of the superscript ² is preferred)	SRF —Secure Reserve Force
SQA —software quality assurance	SRI —Stanford Research Institute
SQF —subjective quality factor	SRIC —Semiconductor Research Integration Center
SQIT —Sandia quality improvement team	SRIR —semirigid inspection resin
SQL —structured query language	SRIS —short-range thermal sight
SQLC —Sandia Quality Leadership Council	SRL —Savannah River Laboratory
SQL/DS —structured query language/data system	SRO —Savannah River Operations (DOE)
SGPC —Secretarial Quality Process Council	SRP —Savannah River Plant
SQSC —Sandia Quality Steering Council	SRS —1. Savannah River site 2. secure recode system
SQW —single quantum well	SRT —Special Response Team
SQWFET —strained quantum well, field-effect transistor	SR/TR —strategic reconnaissance/tactical reconnaissance
sr —steradian (solid angle)	SRV —1. surrogate research vehicle 2. small reentry vehicle
Sr —strontium (chemical symbol)	SRVS —Sandia Reimbursement and Vouchering System
SR —1. supplementary requirements 2. software requirements 3. slant range 4. suppressed radiation 5. Steel Room	SS —1. stainless steel 2. special (or system) specification (a drawing prefix) 3. US designator for Soviet surface-to-surface missile 4. sole source 5. stockpile support
S&R —shipping and receiving	S&S —safeguards and security (obsolete; use <i>S</i> ²)
SRA —1. Sandia recognition award 2. special recognition award	SSA —1. senior scientific adviser 2. single stronglink assembly 3. source selection authority
SRAM —1. short-range attack missile 2. static random-access memory	SSAC —Source Selection Advisory Council
SRAM-T —short-range attack missile, tactical	SSB —single sideband
SRB —solid-fuel rocket booster	SSBN —Navy designator for its ballistic missile launching nuclear submarine
SRBM —short-range ballistic missile	
SRC —1. sample recovery canister 2. space response cell 3. Semiconductor Research Corporation	

SSC to START

SSC—Soldier Support Center (Army)

SSCC—Site Security Control Center

SSCR—1. system software change request 2. senior Sandia contracting representative

SSD—1. steady-state distribution 2. solid-state storage device 3. safe secure dismantlement

SSDA—synchronous serial data adapter

SSDC—Site Security Defense Center

SSEB—Source Selection Evaluation Board

sSF—standard saybolt fural

SSF—1. Service Storage Facility 2. saybolt seconds fural

SSFC—Self-Service Finance Center

S²SG—Survivability and Security Steering (and Working) Group

SSI—1. ship's system instrumentation 2. small-scale integrated

SSL—1. Secondary Standards Laboratories 2. Sandia Standards Laboratory

SSM—1. secure storage modules 2. single sideband modulation 3. solid-state memory 4. surface-to-surface missile

SSN—1. shape-stable nosetip 2. social security number 3. Secure Supercomputing Network (SNL)

SSNM—strategic special nuclear material

SSO—source selection officer

SSP—1. Stockpile Sampling Program 2. Savings and Security Plan 3. Schedule Strike Plan

SSPO—Strategic Systems Project Office

SSR—1. solid-state relays 2. safe-secure railcar 3. stockpile surveillance reliability

SSRS—Strategic (Command) Secure Recode System

SSS—Systems Science and Software (Company)

SSSA—Soil Science Society of America

SSSP—Safeguards and Security Site Plan

SST—1. safe-secure trailer (or transport) 2. single-shell tank

SSTB—Salton Sea Test Base

SSTS—space surveillance and tracking system

SSOTP—Safeguards System Test Target Program (missile launching)

sSU—standard saybolt, universal

SSU—1. saybolt seconds, universal 2. security system upgrade

SSV—simplified storage vault

St—stoke (use m³s for kinematic viscosity)

ST—1. space (and missile) technology 2. Sandia traveler 3. superconducting transmission

S&T—systems and technology

STA—senior technical associate

STAC—stemming anchor closure

STACS—Strategic and Theater (Tactical) Advanced Communications Study

STADAN—Space Tracking and Data Acquisition Network

stalo—stable local oscillator

STANAG—Standardization Agreement (NATO)

STAR—1. shock thermodynamics applied research 2. Shock Technology Applied Research

STARBASE—security tracking and response base

STARFIX—satellite timing and ranging fix

STARLOC—Sandia target location computer

STARS—strategic target system

START—Strategic Arms Reduction Treaty

STAS—safe-to-arm signal

stat-—Prefix indicating an electrical unit in electrostatic centimeter-gram-second system of units; SI recommends discontinuing the term.

STC—1. Society for Technical Communication
2. seismic target classifier

STCS—short-term compliance statement

std—standard

STE—system test equipment

STED—solar turboelectric drive

STEL—short-term exposure level

STEM—scanning transmission electron microscope

STEP—1. solar total energy project 2. stockpile transition enabling program 3. standard for the exchange of product (model data) 4. standardization enabling project (or program)

STEPS—Sandia Text Editing and Photosetting System

STF—1. safety test facility 2. system test facility

ST&I—security theme and implementation

STI—1. scientific and technical information
2. surveillance test interval

STL—simulation technology laboratory

STM—1. secure transport module 2. scanning, tunneling microscope 3. stirling thermal motors
4. scientifically tailored materials

STMBMS—simultaneous thermogravimetric modulated beam mass of spectrometry

STMPO—solar ten-megawatt project office

S&TNF—strategic and theater nuclear forces

STNG—sealed tube neutron generator

STOC—Special Technical Operations Center

STOL—short takeoff or landing

STOP—safety training observation program

STOLS—surface towed ordnance locator system

STOVL—short takeoff or vertical landing

STP—1. system test plan 2. standard temperature and pressure 3. special technologies program
4. software test plan 5. surety technology program

STPP—standard truncated pyramid pillar

STR—software trouble report

STRAC—Strategic Army Corps

STRATCOM—1. Strategic Communications
2. Strategic Command

STRAW—structural analysis of subassembly wrappers (a computer program)

STREP—System Technology Reentry Experiments Program (Army)

STRESS—structural engineering system solver (a computer program)

STRICOM—Strike Command

STS—1. stockpile-to-target sequence 2. safeguards transportation system

STSC—secure transportation and storage container

STTF—Solar Thermal Test Facility (now the National Solar Thermal Test Facility)

STTR—small-business technology transfer

STU—1. scientific test unit 2. special test unit
3. seismic test unit 4. secure telephone unit

SUCI—sensitive use control information

SUM—Software User's Manual

SUMMER—Sandia unmanned mobile-machine experimentation range

SUPA—submicron particle analyzer

SUPER—science understanding promotes environmental responsibility

SURF—system utilization reaction factor

SURP to Ta

SURP—Sandia university research program

sv—sievert (J kg^{-1} ; formerly *rem*)

SV—1. space vehicle 2. Secure Voice 3. standoff vulnerability

SVC—special verification commission

SVDI—Sandia virtual device interface

SVIS—Sandia Voice Information System

SVL—Secure Voice Link

SVLS—submarine vertical launch system

SVMS—Sandia voice messaging system

SVN—Secure Voice Network

SVT—system verification test

SW—shortwave

SWAP—stress wave analysis program

SWAPS—Secretarial, Writing, and Professional Standards

SWAT—1. special weapons and tactics 2. sum of weighted accelerations technique

SWE—Society of Women Engineers

SWERVE—Sandia winged energetic reentry vehicle

SWF—Strategic Weapon Facility

SWFLANT—Strategic Weapon Facility, Atlantic

SWFPAC—Strategic Weapon Facility, Pacific

SWG—Seabed Working Group

SWHAS—1. Sandia workplace hazards awareness system 2. Sandia workplace hazards awareness signs

SWIFTII—a computer code

SWIM—special weapon inventory management

SWIRC—Southwest Information and Research Center

SWMU—solid waste management unit

SWOE—Smart Weapons Operability Enhancement

SWOG—Special Weapons Overflight Guide

SWOP—1. Southwest Organizing Project 2. special weapons ordnance publication

SWORD—Sandia Wafer-level Software for Reliable Devices

SWOT—strengths, weaknesses, opportunities, and threats

SWP—safe work permit

SWR—standing wave ratio

SWRD—system for weapon rapid deployment

SWTP—secretarial work training program

SX—space experiments

SXR—special exception release

SXRP—stellar X-ray polarimeter

SYNF—synthetic (gaseous and liquid) fuels

SYNROC—synthetic rock

SYSCON—systems control

SYSIN—system input (computers)

SYSOP—systems operator

T

t—1. triton (the nucleus of tritium) 2. temperature in Celsius; sometimes written as *T*

T-—tera- (prefix indicating 10^{12})

T—1. tesla (magnetic flux density) 2. temperature 3. transmission 4. teamwork (one of the three corporate values; see L and Q) 5. tritium (chemical symbol) 6. Trident (as in Trident II)

T_a—antenna noise temperature

Ta—tantalum (chemical symbol)

TA—1. transverse acoustic 2. test apparatus
3. technical associate 4. travel authorization
5. technical area

TABM—tactical antiballistic missile system

TAC—Tactical Air Command

TACAMO—take charge and move out

TACC—Tactical Air Control Center

TACCAuto—Tactical Air Command and Control
(USAF Automated System)

TACFIRE—Army automated tactical system for
artillery fire direction

TACM—total automatic control module

TACOM—Tank Automotive Command (Army)

TACP—Tactical Air Control Party

TADP—Technology Assessment Development Plan

TADS—technician automated diagnostic system

TAFIG—Tactical Forces Interoperability Group

TAFIIS—Tactical Air Force Integrated Information
System

TAGS—text and graphics support

TALC—tactical laser communications

TALO—time after liftoff

TAMMBA—thermoanalyzer modulated molecular
beam apparatus

tan—tangent

TAOS—technology for autonomous operational
survivability

TAP—unit of impulse (1 dyne s/cm²)

TAPS—1. tunnel and pipe system 2. tunnel and pipe
seal

TARC—transportation accident-resistant container

TARE—telemetry automatic reduction equipment

TARS—terrain-aided reckoning system

TASM—1. Tomahawk antiship missile 2. tactical
air-to-surface missile

TASS—tactical automated security system

TATB—triaminotrinitrobenzene

TAWC—Tactical Air War Center

Tb—turbium (chemical symbol)

TBC—test-bed concentrators (related to solar)

TBD—to be determined

TBE—total binding energy

TBI—1. text-based instruction 2. through bulkhead
igniter

Tc—technetium (chemical symbol)

TC—1. thermocouple 2. test component 3. tools
component

T&C—terms and conditions

TCA—trichloroacetic acid

TCATS—target cueing and tracking system

TCC—Technical Control Center

TCCC—Transceiver Central Control Center

TCD—trouble call desk

TCE—trichlorethylene

TCF—1. Technical Control Center 2. trillion cubic
feet

TCG—1. track control group 2. technical
coordination group

TCI—technology commercialization initiative

TCLP—toxicity characteristic leaching procedure

TCMC—Technical Communications Management
Council

TCNT—transpiration-cooled nosetip

TCO to TFTR

TCO—technology commercialization office

TCP/IP—transmission control protocol/internet protocol

TCRC—Technical Classification Review Committee

TCREP—Technical Counters and Response Experimental Program

TD—1. theoretical density (sometimes written as Td) 2. timer driver

TDBI—test during burn-in

TDD—target device detection

TDDL—time division data link

TDF—1. turbulent diffusion flame 2. Target Development Facility

TDI—1. target data inventory 2. time-delayed integration

TDLR—training device letter requirement

TDM—time-division multiplexing

TDMA—time-division multiple access

TDP—1. targets development program 2. technical drawing package

TDR—training device requirement

TDRE—transmit data register empty

TDS—1. transporter detection system 2. tamper detection system 3. Textron Defense Systems (Wilmington, MA) 4. test definition subsystem

TDTC—Test, Development, and Training Center

TDY—temporary duty

Te—tellurium (chemical symbol)

TE—1. transverse electric 2. thermoelectric 3. terminal equipment

TEARS—tank effect augmentation by remote subsystems

TEC—total electron content

TECTU—Tomahawk electrical compatibility test unit

TEDCG—Test Equipment Design Coordination Group

TEF—Test and Evaluation Facility

TEG—Test and Evaluation Group

TEL—transporter-erector launcher

TELER—telecommunications requirement

TELNET—Telecommunications Network

TEM—1. transverse electromagnetic
2. transmission electron microscopy

temp—temperature

TEQ—test equipment qualification

TERA—terminal effects research and analysis

TERCOM—terrain contour matching; sometimes written TERCONTM

TERSE—Terminal Reporting System

TES—thermal energy storage

TESS—tactical engagement simulation system

TESSTA—thermal energy storage for solar thermal applications

TEVES—thermal enhanced (soil) vapor extraction system

TEX—Telex

TFD—Thomas-Fermi-Dikac

TFDD—thermal/flash protective device

TFM—thin-film membrane

TFP—traffic facility practices

TFS—terminal fix system

TFT—thin-film transistor

TFTR—Tokamak Fusion Test Reactor (Princeton's Plasma Physics Laboratory)

- TFW**—Tactical Fighter Wing
- TGA**—thermal gravimetric analysis
- TGES**—Task Group on Electrical Safety
- TGP**—two-gimbal platform
- Th**—thorium (chemical symbol)
- TH**—telemetry head
- THB**—1. test head battery 2. test head B
- THIS**—trouble-handling information system
- thk**—thick
- thm**—therm (British unit of temperature)
- THM**—terminal homing munitions
- THREX**—threshold experiment
- THT**—transient heat transfer
- TI**—Texas Instruments
- TIADS**—Tonopah Integrated Air Defense System
- TIC**—Technical Information Center (Oak Ridge);
TIC is now obsolete; see *OSTI*
- TID**—traveling ionospheric disturbances
- TIDS**—Technical Information Distribution System
- TIE**—1. technical institute equivalency (program)
2. technical information exchange
- TIE-In**—technology information environment for
industry
- TIG**—tungsten inert gas
- TIM**—1. target insertion mechanism 2. technical
interchange meeting
- TIMS**—Technical Information Monitoring System
- TIO**—technical integration office
- TIP**—1. transaction interface package 2. tokamak
improvement program 3. thulium isotope power
- TIQLR**—teamwork, integrity, quality, leadership, and
respect
- TIRC**—technical information resource consultant
- TIS**—1. technical information specialist 2. technical
information service 3. Telephone Intercept System
- TIU**—transducer interface unit
- TK**—temperature Kelvin (see K)
- TL**—transmission level
- T²L**—transistor-transistor logic; use *TTL* instead
- TLAM**—Tomahawk land-attack missile
- TLAM-C**—Tomahawk land-attack missile,
conventional
- TLAM-N**—Tomahawk land-attack missile, nuclear
- TLC**—total life concept
- TLCC**—thin-line connectivity capability
- TLD**—1. threshold lung damager
2. thermoluminescent dosimeter
- TLDE**—theater launch detection experiment
- TLE**—target-location error
- TLI**—treaty-limited item
- TLTA**—two-loop test apparatus
- TLV**—threshold limit value
- TLX**—short for telex
- TM**—1. tone modulation 2. transverse magnetic
3. technology manager 4. telemetry 5. thematic
mapper 6. technical manual
- T&M**—time and material
- TMAB**—tetramethylammonium borohydride
- TMAC**—Toxic Materials Advisory Committee
- TMAP**—1. teleoperated mobile anti-armor
platform 2. tactical multipurpose automated
platform

TMD to TRAC

TMD—theater missile defense

TMDE—test, measurement, and diagnostic equipment

TMI—Three-Mile Island

TMP—technology maturation program

TMS—1. The Metals Society 2. tool-made sample

TMSS—telemanaged (or teleoperated) mobile security station (pronounced “Thomas”)

TN—thermonuclear

T_N—noise temperature

TNA—thermoneutron activation

TNAZ—trinitroazetidine

TNCHP—trizacycloheptene

TNF—1. tactical nuclear forces 2. theater nuclear forces

TNFC³S—Theater Nuclear Forces Command, Control, and Communication System

TNNW—Treaty on Nonproliferation of Nuclear Weapons

TNSA—technical nuclear surety analysis

TNT—trinitrotoluene

TO—1. transverse optic 2. technical order (sometimes written as T.O.)

TOA—time of arrival

TOC—1. Test Operations Center 2. Technical Operations Center 3. total organic carbon

TOFF—transient overpower fuel-element failure (a computer program)

TOFMS—time of flight mass-spectrometry (or spectrometer)

TOG—technical oversight group

tol—tolerance

TOO—targets of opportunity

TOP—1. technical operating plan 2. transient overpower (accident) 3. total obscuring power (measure of smoke screening)

TOS—1. Tactical Operations System 2. Transportation Options Study

TOSI—technical on-site inspection

TOSM—transceiver on-site multiplexer

TOUGH—transport of unsaturated groundwater and heat

TOV—teleoperated vehicle

TOW—time of week

TP—technical publication

TPA—1. terephthalic acid 2. tri-party agreement 3. terminal processing assembly

TPC—transaction processing center

TPD—temperature programmed desorption

TPICK—Telecommunications Plan for Improving Communications in Korea

TPR—terrain profile recorder (also known as airborne profile recorder, or *APR*)

TPS—1. thermal power system 2. tamper-protected sensors 3. transactions per second

TPU—text processing utility

TPV—thermophotovoltaic

TPX—1. tokamak physics experiment 2. polymethylpentene

TQG—tactical quiet generator

TQM—total quality management

Tr—trainer

TRA—test reactor area

TRAC—transient reactor analysis code

TRACE —tamper-resistant authenticated camera enclosure	TSAR —terminal special-access request
TRADOC —Training and Doctrine Command (Army)	TSC —1. touch screen control 2. triple standard concertina 3. Technology Support Center
TRANSWRAP —transient sodium water reaction analysis program (a computer program)	TSCA —Toxic Substances Control Act
TRAPP —transient response to applied pressure pulses (a computer program)	TSCC —Technical Support Coordinating Committee
TREAT —Transient Reactor Test Facility	TSCM —technical security countermeasure
TRED —technology for regional-based economic development	TSD —1. treatment, storage, and disposal 2. technical system design
TREE —transient radiation effects in electronics	TSE —test support equipment
TRI —Tech Reps, Inc.	TSER —transportation safety evaluation report
TriP —transient ignition phenomena	TSG —Telephone Security Group
TRISP —time-resolved infrared spectral photography	TSLS —trajectory stronglink switch
TRITAC —Tri-Service Joint Tactical Communications Office	TSN —Terminal Switching Network
TRL —Tritium Research Laboratory	TSO —time-sharing option
TRL/SRC —Tritium Research Laboratory/Safety Review Committee	TSP —1. traffic service position 2. transportation/storage program 3. testbed setup program
TROKA —Third Republic of Korea Army	TSPI —time-space position information
TRP —technology reinvestment project	TSRS —tactical secure recode system
TRS —1. text recognition system 2. telemetry receiving station	TSS —transportation security system
TRSS —tactical remote sensor system	TSSG —1. trajectory-sensing signal generator 2. Transportation Study Steering Group
TRU —1. transuranic 2. total resource utilization	TSSP —trajectory sensing signal processor
TRUPACT —transuranic package transporter	TSSPE —trajectory sensing signal processor enable
TRV —tactical robotic vehicle	TSTS —Tomahawk system test set
TRW —Thompson, Ramo, Wooldridge (Corporation)	TTA —tube-transformer assemblies
TS —1. technical support 2. target strength	TTAP —Tiger Team Action Plan
TSA —1. technical staff associate 2. technical safety appraisal	TTB —1. tank testbed 2. target technology base
TSAM —tri-service standoff attack missile	TTBT —Threshold Test Ban Treaty
	TTC —Technology Transfer Center
	TTIM —TACOM thermal image model

TTL to UDL

TTL—transistor-to-transistor logic

TTLD—Teflon thermoluminescent dosimeter

TTM—two-tone modulation

TTR—Tonopah Test Range

TTS—time-transfer system

TTV—test target vehicle

TTY—1. teletype 2. teletypewriter

Tu—tuballoy

TU-ART—twin universal asynchronous receiver/transmitter

TUDE—terminal user data entry

TUL—time until launch

TUQS—trajectory unique signal

TVA—Tennessee Valley Authority

TVATP—tactical vulnerability assessment training program

TVC—Technology Ventures Corporation

TVI—television interference

TVL—tenth value larger

Tw or **Twad**—Twaddell (a unit of specific gravity on the Twaddell scale)

TW—terawatt (trillion watts)

TWAA—tactical warning/attack assessment

TWCS—Tomahawk Weapon Control System

TWNP—tape-wound nylon phenolic

TWO-DFFT—two-dimensional fast Fourier transform

TWP—1. transuranic waste program 2. tactical warfare program

TWPG—Trident Warhead Project Group (US/UK)

TWS—Tomahawk Weapon System

TWT—1. traveling-wave tube 2. transonic wind tunnel

TWX—teletypewriter exchange (service)

U

u—atomic mass unit (unified)

UART—universal asynchronous receiver/transmitter

UAV—unmanned aerospace vehicle

U-AVLIS—uranium-atomic vapor laser isotope separation

UBITRON—undulating beam interaction electron (tube)

UC—use control

U&C—usual and customary

UCAI—unclassified controlled access information

UCBT—uncollimated Compton backscattering tomography

UCC—use-control characteristics

UCCATS—urban combat computer-assisted training system

UCC/ND—Union Carbide Corporation/Nuclear Division

UCG—underground coal gasification

UCL—upper control limit

UCNI—unclassified controlled nuclear information

UCP—1. Universal construction package 2. Unified Command Plan

UCPOG—use-control project officer's group

UCS—unclassified computer software

UDETSS—underwater deterrent security system

UDL—use denial lock

UDT—Underwater Demolition Team

UF—Upward Feedback

UFC—Uniform Fire Code

UFFCS—ultrasonics, ferroelectrics, and frequency control society

UG—underground

UGS—unattended ground sensor

UGT—underground test

UGV—unmanned ground vehicle

UHDL—unified hardware description language (computers)

UHF or uhf—ultra-high frequency

UHI—upper-head injection

UHLCADS—ultra-high-level container airdrop system

UHV—ultra-high voltage

U/I—urban-industrial

UIC—user identification code

UIS—user interface simulation

UJT—unijunction transistor

UK—United Kingdom

UKAEA—United Kingdom Atomic Energy Authority

ULF—ultra-low frequency

ULSI—ultra-large-scale integrated

UMS—1. ultrasonic motion sensor 2. universal maintenance standards

UNAAF—Unified Action Armed Forces

UNC—1. unified national coarse (holes) 2. United Nuclear Corporation

UNCAI—unclassified noncontrolled access information

UNICCAP—universal cable circuit analysis program (computers)

UNIX—a computer operating system developed at Bell Labs

UNSCOM—United Nations Special Commission

UO₂—uranium dioxide

UOR—unusual occurrence report

UPC—universal PAL controller

UPEC—University Programs Education Committee

UPH—underground pumped hydro

UPI—1. United Press International
2. Unidynamics Phoenix, Inc.

UPS—uninterruptible power supply

UPT—university part-time

UQS—unique signal

UR—unsatisfactory report

URA—uniformly redundant array

URS—UHF ranging system

US—1. United States (often written as U.S.)
2. ultrasonic

U&S—unified and specified

USA—United States Army

USAAG—US Army Artillery Group

USABC—US Advanced Battery Consortium

USADC—US Army Defense Command

USAF—United States Air Force

USAFAD—US Army Field Artillery Detachment

USAFE—US Air Force, Europe

USAKA—US Army Kwajalein Atoll

USAREUR—US Army, Europe

USART to VAFB

USART—universal synchronous/asynchronous receiver/transmitter

USARV—US Army in Vietnam

USASDC—US Army Strategic Defense Command

USASI—USA Standards Institute (replaces *ASA*)

USASOC—US Army Special Operations Command

USCINCEUR—US Commander-in-Chief, Europe (NATO)

USCINCPAC—US Commander-in-Chief, Pacific Command

USCINCSO—US Commander-in-Chief, Southern Command (NATO)

USCOMDOMREP—US Commander, Dominican Republic

USDA—1. US Department of Agriculture 2. unique signal device assembly

USDOE—US Department of Energy

USDRE—Under Secretary of Defense for Research and Engineering

USDSD—ultrasonic seal data storage device

USEUCOM—US European Command

USFK—US Forces in Korea

USG—1. US Government 2. unique signal generator

USGCRP—US Global Change Research Program

USGS—US Geological Survey

USJVP—Utility Scale Joint-Venture Project

USMB—US Metric Board

USMC—US Marine Corps

USN—US Navy

USNC/RM—US National Committee for Rock Mechanics

USRADS—ultrasonic ranging and data system

USRD—ultrasonic seal reading head

USS—United States ship

USSAN—US Security Affairs NATO

USSIOP—US single integrated operational plan

USSR—Union of the Soviet Socialist Republic (see NIS and FSU)

UST—1. unique signal train 2. underground storage tank

UT—ultrasonic testing

UTC—universal time coordinated

UTMC—United Technologies Microelectronics Center

UTRC—United Technologies Research Center

UU—ultimate user

UUT—unit under test

UV—ultraviolet

UVASER—ultraviolet amplification by stimulated emission of radiation

UV-LIDAR—ultraviolet light detection and ranging

UV-Vis—ultraviolet visible

UWB—ultra-wide band

UXO—unexploded ordnance

V

v—1. velocity 2. vibration

V—1. vanadium (chemical symbol) 2. volt

VA—1. voltampere 2. vulnerability assessment

vac—vacuum

VAC—1. Vacuum Atmospheric Company (Hawthorne, CA) 2. volts, alternating current (see VDC) 3. vacuum

VAFB—Vandenberg Air Force Base

VAIS —visually artificial intelligent surveillance	VFP —variance frequency processor
VAMS —visits and assignments management system	VGA —1. video graphics array 2. video graphics adapter 3. voluntary group accident (insurance)
VANA —Vector Automatic Network Analysis	VH —velocity (or validation) head
VAr —volt-ampere reactive	V&H —vulnerability and hardening
VAR —1. visual-aural range 2. vacuum-arc-remelt	VHDL —VHSIC hardware description language
VAWT —vertical-axis wind turbine	VHF or vhf —very high frequency
VAX —virtual address extension	VHSIC —very high speed integrated circuit
VB/TWSS —vehicle barrier/taut-wire sensor system	VIA —volunteers in action
VC —verification chamber	VIP —1. visual information projection 2. vital issue process 3. video imaging projectile
VCC —voice conferencing console	VISAR —velocity interferometer system for any reflector
VCE —vinyl copolymer ethylene	VISDTA —video imaging system for detection, tracking, and assessment
VCO —1. voltage-controlled oscillator 2. virtual cathode oscillator	VISTA —very intelligent surveillance and target acquisition
VCP —1. volunteer contribution plan 2. verifiable control procedures	VITA —volunteers in technical assistance
VCR —videocassette recorder	Viterbi —redundancy for error checking
VCSEL —vertical cavity surface-emitting laser	VIU —VME I/F unit
V&CT —verification and control technology	viz. — <i>videlicet</i> ; namely
VDC —volts, direct current (see VAC)	VKA —volatile keying assembly
VDFG —variable diode function generator	VLBI —very low baseline interferometry
VDI —1. video disk interactive (computers) 2. virtual device interface	VLF or vlf —very low frequency
VDT —video display terminal	VL&H —vulnerability, lethality, and hardening
Ve —exhaust velocity (expressed in m/s)	VLOS —vertical line of sight
VE —viscoelastic (materials)	VLR —very long range
VEC —variable explosive chamber	VLS —vertical launching system
VENUS —computer code superseding MARS code for disassembly analysis	VLSI —very large scale integration
vf or VF —video frequency	VM —1. velocity modulation 2. voltmeter 3. virtual machine
VFO —variable frequency oscillator	

VMD to WALI

VMD—video motion detection

VME—versa-module, Europe

VMS—virtual memory system

VNIR—very near infrared

v/o—volume/percent

VOC—volatile organic compounds

V/OD—voice/open data

vol—volume

VOM—volt-ohm-milliammeter

VOR—VHF omni range

VP—1. video processor 2. vault processor

V_P—pinchoff voltage

VPIC—Russian acronym for Soviet Military Industrial Commission

VR—virtual reality

VRF—Visual Recording Facility

VRIS—Vault Remote Inventory System

VRLA—valve regulated lead-acid (batteries)

VRTWG—verification research technology working group

vs.—versus

VS—very survivable

VS_B—vestigial sideband

VSIS—Vault Safety and Inventory System

VSM—vestigial sideband modulation

V-SMOW—Vienna standard mean ocean water

VSS—video storage system

VSTOL—vertical/short takeoff or landing

VSU—1. voice synthesizer unit 2. video surveillance unit

VSWR—voltage standing-wave ratio

VT—vacuum tube

VTE—virtual test environment

VT_{ERM}—virtual terminal

VTL—voluntary term life

VTOL—vertical takeoff and landing

VT_{PP}—Verification Test Plan and Procedures

VTR—video tape recorder

VT_{VM}—vacuum tube voltmeter, used now only on old equipment; use *EVM* for electronic voltmeter

VTWS—vertical taut-wire sensor

VTZF—variable threshold zonal filter

vu—volume unit

Vu-graph—informal spelling of viewgraph

VUA—virtual user address

VUV—vacuum ultraviolet

V&V—validation and verification

VVT—variable valve timing

W

W—1. watt 2. wolfram (or tungsten) (chemical symbol) 3. warhead

WA—work authorization

WAC—1. weapons advisory committee
2. weapons activity committee
3. weapons allocation committee

WADS—weapon access delay system (formerly the igloo access delay system)

WAIS—1. wide area intrusion (detection) system
2. wide area information server (OSTI)
3. wide area infrared sensor

WALI—workstation for the analysis of LISA images

WALT —warning assessment logic terminal	WeDID —Waste Component Recycle Treatment and Disposal Integrated Demonstration
WALTS —wide-angle laser transmitter system	WERC —Waste-Management Education and Research Consortium
WAM —1. wide-area mine 2. warhead arming maneuver	WES —1. warhead electrical system 2. weapon electrical system 3. Waterways Experiment Station (Army)
WAN —Wide Area Network	WESF —Waste Encapsulation and Storage Facility (Hanford)
WAP —weapon appraisal process	WESTCOM —Western Command
W-ARD —Westinghouse, Advanced Reactors Division	WESTLANT —Western Atlantic Command (NATO)
WARSS —wide area ramp surveillance system	WFO —work for others
WATCH —wireless alarm transmission of container handling	wg —weapon grade
WATS —wide-area telephone service	WGA —Western Governors Association
Wb —weber	WGBC —waveguide beyond cutoff
WBCN —wide-band communications network (DOE) (Transmission between Production Facilities and the Weapons Labs)	wgs —water-gas shift
WBS —work breakdown structure	WGS —World Geodetic System
WCD —weapon compatibility date	WGSP —Western Gas Sands Project
WCP —weapon control panel	Wh —watt-hour
WCS —weapon control system	WH —warhead
WCU —WATCH controller unit	WHC —Westinghouse Hanford Company
WDCR —weapon design and cost report	WHCA —White House Communications Agency
WDD —wing data disk	WHI —warhead installation
WDEC —weapon design, engineering, and certification	WHOI —Woods Hole Oceanographic Institution
WDL —work days lost	WH/RV —warhead and/or reentry vehicle
WDR —weapon development report	WHS —warhead section
WDSR —weapon development status report	WHTU —warhead test unit
WDT —warning display terminal	WIMP —weakly interacting massive particle
w.e. —water equivalent	WINS —well-based inertial navigation system (now banned)
WE —Western Electric	WIPP —Waste Isolation Pilot Plant
WEC —Westinghouse Electric Corporation	

WIR to WSS

WIR—weapon information report

WIS—WWMCCS Information System

WITS—warhead (or weapon) integration test system

WITU—a weapon identification device

WIU—weapon interface unit

wk—week

WL—1. Wright Laboratory 2. weapons laboratory

WLANT—West Atlantic

WM—waste management

WMD—waste-management defense

WMS—warehouse management system

WNINTEL—Warning Notice: Intelligence (Sources or Methods Involved)

w/o—1. weight/percent; see *wt. %* (preferred)
2. without

WO—work order

WOB—women-owned (or woman-owned) business

WOC—Wing Operations Center

WORM—write once read many

WOTS—work order tracking system

WP—1. white phosphorus (screening smoke)
2. West Point 3. Warsaw Pact (now obsolete)
4. word processing (or word processor)

WPAS—work package authorization system

WPC—Women's Program Committee

W/PC—work/passenger car

wpm—words per minute

wpn—weapon

WPPSL—Weapons Production Primary Standards Laboratory

WPT—weapon preload test

WR—1. war reserve (stockpile of weapons)
2. working receiver

WRD&T—weapons research, development, and testing

WR&TD—weapons research and technology development (program)

WRE—Weapons Research Establishment (UK)

WRO—weapon retrofit order

WROC—waste reduction operations complex

wrs—weighted residual squared

WRT—WIPP radioactive test

WR & TD—weapons research and technology development

WS—1. weapon system 2. warhead section
3. weapon storage 4. work station

WS³—weapons storage and security system

WSA—weapons storage area

WSARG—Weapon Safety Assessment and Review Group

WSC—weapons security container

WSET—weapon systems evaluation test

WSI—Wackenhut Services, Inc. (DOE contractor)

WSLI—weapon surety link interface

WSMC—Western Space and Missile Center

WSMR—White Sands Missile Range

WSNSO—weather service nuclear support office

W/sr—watt per steradian

WSRS—Westinghouse Savannah River Site

WSRSG—weapon system review study group

WSS—weighted sum of squares

WSSB—Weapon System Safety Branch

W/st—watt per steradian

WSV—weapon storage vault

wt—weight

wt. %—weight percent

WTDC—waste tank diverter cell

WTE—warhead test environment

WTO—Warsaw Treaty Organization

WTS—Washington tactical switch

WTTV—WSMC transponder test van

WTV—Russian acronym for Western Theater of Military Operations

WW—world war; initial-cap words when used with a number as World War II (WWII)

WWC—wire-wound calorimeter

WWMCCS—World-wide Military Command and Control System

WWVCS—World-Wide Voice Conferencing System

WYSIWYG—"what you see is what you get"

X

X—reactance

XCHEM—explosive chemical

XDT—delayed detonation

XGDS—exempt from general declassification schedule

XISPS—X-ray image scan processing system

X-MIBA—external microbeam analysis

X-MP—x-multiplexer-processor

XNS—Xerox Network System

XPS—X-ray photoelectron spectroscopy

XRD—1. X-ray detector 2. X-ray diode

XRL—X-ray laser

XTL—crystal

xu—x-unit (a unit of length)

XUV—extreme ultraviolet

Y

Y—yttrium (chemical symbol)

YAG—yttrium aluminum garnet (laser)

Yb—ytterbium (chemical symbol)

yd—yard

YIG—yttrium iron garnet (laser)

YMP—Yucca Mountain Project

YOT—youth opportunity trainee

yr—year

YTD—year to date

Y-Term—Yale terminal emulator

Z

ZB—Zodiac Beauchamp

ZEG—zero energy growth

ZES—zero energy state

ZnS—zinc sulfide

ZOC—zone operations control

ZPPR—zero-power plutonium reactor

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Appendix A

Chemical Elements

(From the Handbook of Chemistry and Physics, 70th edition, 1988-1990, CKC Press)

	Symbol	Atomic Number		Symbol	Atomic Number
Actinium	Ac	89	Neodymium	Nd	60
Aluminum	Al	13	Neon	Ne	10
Americium	Am	95	Neptunium	Np	93
Antimony (Stibium)	Sb	51	Nickel	Ni	28
Argon	Ar	18	Niobium	Nb	41
Arsenic	As	33	Nitrogen	N	7
Astatine	At	85	Nobelium	No	102
Barium	Ba	56	Osmium	Os	76
Berkelium	Bk	97	Oxygen	O	8
Beryllium	Be	4	Palladium	Pd	46
Bismuth	Bi	83	Phosphorus	P	15
Boron	B	5	Platinum	Pt	78
Bromine	Br	35	Plutonium	Pu	94
Cadmium	Cd	48	Polonium	Po	84
Calcium	Ca	20	Potassium	K	19
Californium	Cf	98	Praseodymium	Pr	59
Carbon	C	6	Promethium	Pm	61
Cerium	Ce	58	Protactinium	Pa	91
Cesium	Cs	55	Radium	Ra	88
Chlorine	Cl	17	Radon	Rn	86
Chromium	Cr	24	Rhenium	Re	75
Cobalt	Co	27	Rhodium	Rh	45
Copper	Cu	29	Rubidium	Rb	37
Curium	Cm	96	Ruthenium	Ru	44
Dysprosium	Dy	66	Samarium	Sm	62
Einsteinium	Es	99	Scandium	Sc	21
Erbium	Er	68	Selenium	Se	34
Europium	Eu	63	Silicon	Si	14
Fermium	Fm	100	Silver	Ag	47
Fluorine	F	9	Sodium	Na	11
Francium	Fr	87	Strontium	Sr	38
Gadolinium	Gd	64	Sulfur	S	16
Gallium	Ga	31	Tantalum	Ta	73
Germanium	Ge	32	Technetium	Tc	43
Gold	Au	79	Tellurium	Te	52
Hafnium	Hf	72	Terbium	Tb	65
Helium	He	2	Thallium	Tl	81
Holmium	Ho	67	Thorium	Th	90
Hydrogen	H	1	Thulium	Tm	69
Indium	In	49	Tin	Sn	50
Iodine	I	53	Titanium	Ti	22
Iridium	Ir	77	Tungsten	W	74
Iron	Fe	26	Unnilhexium	Unh	106
Krypton	Kr	36	Unnilpentium	Unp	105
Lanthanum	La	57	Unnilquadium	Unq	104
Lawrencium	Lr (Lw)	103	Unnilseptium	Uns	107
Lead	Pb	82	Uranium	U	92
Lithium	Li	3	Vanadium	V	23
Lutetium	Lu	71	Xenon	Xe	54
Magnesium	Mg	12	Ytterbium	Yb	70
Manganese	Mn	25	Yttrium	Y	39
Mendelevium	Md	101	Zinc	Zn	30
Mercury	Hg	80	Zirconium	Zr	40
Molybdenum	Mo	42			

Appendix B
Classified Information Accessible
L-Cleared or Q-Cleared Employees

Employees are cleared to view classified material in accordance with the following categories and guidelines:

Level	Restricted Data	Formerly Restricted Data	National Security Information
L-Cleared	<ul style="list-style-type: none">• Confidential	<ul style="list-style-type: none">• Secret• Confidential	<ul style="list-style-type: none">• Secret• Confidential
Q-Cleared	<ul style="list-style-type: none">• Secret• Confidential	<ul style="list-style-type: none">• Top Secret• Secret• Confidential	<ul style="list-style-type: none">• Top Secret• Secret• Confidential

Appendix C

Common Abbreviations Used for Functions

ad	adjoint
arg	argument
cos	cosine
cosh	hyperbolic cosine
cot or ctg	cotangent
coth	hyperbolic cotangent
det	determinant
dim	dimension
exp	exponential
GL	general linear
hom	homology
Im	imaginary
inf	inferior
ker	kernel
lim	limit
lim inf	limit inferior
lim sup	limit superior
ln (or log)	logarithm
lub	least upper bound
max	maximum
min	minimum
mod	modulus
P	property
PL	piecewise linear
Re	real
sin	sine
sinh	hyperbolic sine
SL	special linear
tan	tangent
tanh	hyperbolic tangent
tr	trace
wr	wreath

Appendix D

Approximate Conversion Factors for Selected SI (Metric Units)

Multiply SI (Metric Unit)	By	To Obtain US Customary Unit
Celsius (°C)	$9/5 + 32$	Fahrenheit (°F)
Centimeters (cm)	0.39	Inches (in.) Meters
Cubic Meters (m ³)	35.0	Cubic Feet (ft ³)
Grams (g)	0.035	Ounces (oz)
Hectares (ha)	2.5	Acres
Kilograms (kg)	2.2	Pounds (lb)
Kilometers (km)	0.62	Miles (mi)
Liters (L)	0.26	Gallons (gal)
Meters (m)	3.3	Feet (ft)
Micrograms per gram (mg/g)	1.0	Parts per Million (ppm)
Milligrams per Liter (mg/L)	1.0	Parts per Million (ppm)
Square Kilometers (km ²)	0.39	Square Miles (mi ²)

Appendix E

IBM Flowcharting Templates

The symbols below conform to the International Organization for Standardization (ISO) International Standard 1028 — "Information Processing — Flowchart Symbols," and American National Standard Flowchart Symbols and Their Usage in Information Processing, ANSI X3.5-1970. IBM usages beyond the above standards are three symbols: off-page connector, transmittal tape, and keying, which are identified IBM.

*Composite Symbols (preceded by a star) are those drawn by adding to or combining shapes provided by cutouts in the template.

Symbols are in three groups: (1) basic symbols; (2) processing and sequencing symbols related to programming; (3) input/output, communication link, or processing symbols related to systems.

Appendix F

Greek Alphabet

Identity	Lower Case	Capital	Samples of Handwritten Forms
alpha (a)	α	A	α A α α α α α α
beta (b)	β	B	β B β β β β β β
gamma (g)	γ	Γ	γ Γ γ γ γ γ γ γ
delta (d)	δ	Δ	δ Δ δ δ δ δ δ δ
epsilon (e)	ϵ	E	ϵ E ϵ ϵ ϵ ϵ ϵ ϵ
zeta (z)	ζ	Z	ζ Z ζ ζ ζ ζ ζ ζ
eta (e)	η	H	η H η η η η η η
theta (th)	θ	Θ	θ Θ θ θ θ θ θ θ
iota (i)	ι	I	ι I ι ι ι ι ι ι
kappa (k)	κ	K	κ K κ κ κ κ κ κ
lambda (l)	λ	Λ	λ Λ λ λ λ λ λ λ
mu	μ	M	μ M μ μ μ μ μ μ
nu (n)	ν	N	ν N ν ν ν ν ν ν
xi (x)	ξ	Ξ	ξ Ξ ξ ξ ξ ξ ξ ξ
omicron (o)	$\omicron$	O	$\omicron$ O $\omicron$ $\omicron$ $\omicron$ $\omicron$ $\omicron$ $\omicron$
pi (p)	π	Π	π Π π π π π π π
rho (r)	ρ	P	ρ P ρ ρ ρ ρ ρ ρ
sigma (s)	σ	Σ	σ Σ σ σ σ σ σ σ
tau (t)	τ	T	τ T τ τ τ τ τ τ
upsilon (u)	υ	Υ	υ Υ υ υ υ υ υ υ
phi (ph)	ϕ	Φ	ϕ Φ ϕ ϕ ϕ ϕ ϕ ϕ
chi (ch)	χ	X	χ X χ χ χ χ χ χ
psi (psi)	ψ	Ψ	ψ Ψ ψ ψ ψ ψ ψ ψ
omega (o)	ω	Ω	ω Ω ω ω ω ω ω ω

Appendix G

Metrix Terminology

<u>Prefix</u>	<u>Terminology</u>
micro	one millionth (10^{-6})
milli	one thousandth (10^{-3})
centi	one hundredth (10^{-2})
tera	one trillion (10^{12})
deci	one tenth (10^{-1})
deka (or deca)	ten (10)
hekto (or hecto)	one hundred (10^2)
giga	one billion (10^9)
kilo	one thousand (10^3)
myria	ten thousand (10^4)
mega	one million (10^6)
atto	one quintillionth (10^{-18})
nano	one billionth (10^{-9})
pico	one trillionth (10^{-12})
femto	one quadrillionth (10^{-15})

Appendix H

Official Sandia Addresses

The official mail addresses for Sandia National Laboratories are:

- **Sandia/New Mexico**
P.O. Box 5800
Albuquerque, New Mexico 87185-5800
- **Sandia/California**
P.O. Box 969
Livermore, California 94551-0969
- **Tonopah Test Range**
P.O. Box 871
Tonopah, Nevada 89049

Appendix I. Proofreader's Marks

The proofreading symbols shown on these pages represent the accepted system of marking changes on both copy and proofs.

<i>wf</i>	Wrong font (size or style of type)
<i>lc</i>	Set in <u>LOWER CASE</u> or LOWER CASE
<i>caps</i>	SET IN <u>capitals</u>
<i>caps + lc</i>	Lower Case with Initial Caps
<i>sm. caps</i>	SET IN <u>small capitals</u>
<i>roman</i>	Set in <u>roman</u> (or regular) type
<i>Ital</i>	Set in <u>italic</u> (or oblique) type
<i>L.F.</i>	Set in <u>lightface</u> type
<i>bf</i>	Set in <u>boldface</u> type
☐	Move to right
☐	Move to left
☐	Lower (letters or words)
☐	Elevate (letters or words)
☐	Straighten line (horizontally)
<i>tr.</i>	Transpose letters in a word
<i>tr.</i>	Transpose enclosed in ring (matter)
<i>lead</i>	Insert lead between lines
<i>ld</i>	Take out lead or <i>tr. lead</i>
☐	Close up entirely; take out space
☐	Less space between words
<i>eq #</i>	Equalize space between words

<i>l/s</i>	LETTER-SPACE ^ ^ ^ ^ ^ ^ ^ ^ ^
#	Insert space (or more space)
☐	Em quad space or indentation
<i>2</i>	Delete, take out
<i>stet</i>	Let it stand — (all matter above dots)
<i>¶</i>	Begin a paragraph
<i>no ¶</i>	No paragraph
<i>run in</i>	Run in
<i>flush ¶</i>	No paragraph indentation
☐	Period ^ Comma
☐	Semicolon : Colon
☐	Apostrophe or 'single quote'
☐	Quotation marks "quotes"
<i>?</i>	Question mark or "query"
<i>!</i>	Exclamation point
<i>=</i>	Hyphen
<i>(/)</i>	Parentheses
<i>[/]</i>	Brackets
☐	Reverse (upside-down type or cut)
<i>⊥</i>	Push down space or lead that prints
<i>(sp)</i>	Spell out (20 gr)
<i>OK w/c</i> <i>OK a/c</i>	OK "with corrections" or "as corrected"

Appendix J

Signs and Symbols

+	Plus
-	Minus
$\times$	Multiplied by
$\div$	Divided by
=	Equal to
$\pm$	Plus or minus
$\mp$	Minus or plus
$\pm$	Plus or equal
$\equiv$	Identical with, congruent
$\neq$	Not identical with
$\approx$	Not equal to
$\approx$	Nearly equal to
$\approx$	Equals approximately
$\geq$	Equal to or greater than
$\leq$	Equal to or less than
$<$	Less than
$<$	Less than
$>$	Greater than
$>$	Greater than
$\geq$	Greater than or less than
$\leq$	Not less than
$\leq$	Not greater than
$\leq$	Less than or equal to
$\leq$	Less than or equal to
$\leq$	Less than or equal to
$\leq$	Less than or greater than

$\geq$	Greater than or equal to
$\geq$	Greater than or equal to
$\geq$	Greater than or equal to
$\geq$	Greater than or equal to
$\equiv$	Equivalent to
$\neq$	Not equivalent
$\neq$	Not equivalent
$\subset$	Included in
$\supset$	Excluded from
$\perp$	Perpendicular to
$\parallel$	Parallel
$\nparallel$	Not parallels
$\angle$	Angle
$\therefore$	Hence, therefore
$\therefore$	Multiplied by
$\therefore$	Ratio
$\sqrt{\quad}$	Square root
$\sqrt[3]{\quad}$	Cube root
Σ	Summation of
Π	Product sign
π	Pi (3.1416)
$\cup$	Union sign
$\cap$	Intersection sign
$!$	Factorial sign
$\in$	Is an element of
$\notin$	Is not an element of

Δ	Delta
∇	Nabla; del
δ	Variation
∞	Infinity
$h/2\pi$	$h/2\pi$
∂	Partial differential
$\int$	Integral
$\oint$	Contour integral
$\rightleftharpoons$	Equilibrium reaction beginning at right

Appendix K

State Abbreviations

Alabama	AL	Kentucky	KY	Ohio	OH
Alaska	AK	Louisiana	LA	Oklahoma	OK
Arizona	AZ	Maine	ME	Oregon	OR
Arkansas	AR	Maryland	MD	Pennsylvania	PA
California	CA	Massachusetts	MA	Puerto Rico	PR
Colorado	CO	Michigan	MI	Rhode Island	RI
Connecticut	CT	Minnesota	MN	South Carolina	SC
Delaware	DE	Mississippi	MS	South Dakota	SD
District of Columbia	DC	Missouri	MO	Tennessee	TN
Florida	FL	Montana	MT	Texas	TX
Georgia	GA	Nebraska	NE	Utah	UT
Guam	GU	Nevada	NV	Vermont	VT
Hawaii	HI	New Hampshire	NH	Virginia	VA
Idaho	ID	New Jersey	NJ	Virgin Islands	VI
Illinois	IL	New Mexico	NM	Washington	WA
Indiana	IN	New York	NY	West Virginia	WV
Iowa	IA	North Carolina	NC	Wisconsin	WI
Kansas	KS	North Dakota	ND	Wyoming	WY

Appendix L

Suggestions Form

TO: Betty J. Tolman, 7151

SAND89-0217, Revised
Acronyms, Initialisms, and Abbreviations
April 1994

SUGGESTIONS FORM

Please correct the following:

Page Number	Acronym	Correction

COMMENTS:

(Please Print Your Name, Department, and Phone Number)

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