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Abbreviations for Technical Writers

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ABBREVIATIONS FOR TECHNICAL WRITERS

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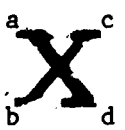
Introduction

This is a comprehensive listing of abbreviations most likely to be encountered by Sandia Laboratories (SLA) writers. It has been culled from Sandia Technical reports, other military and Sandia listings, and commercial publications. Although the listing is informal and is meant to be descriptive rather than prescriptive, it can be considered authoritative by SLA Technical writers. A listing by expansion is not included because writers seldom generate abbreviations.

The placement of subscripts and superscripts around atomic elements is often a perplexing question. Therald Moeller in Inorganic Chemistry* writes that, according to the INTERNATIONAL UNION OF CHEMISTS, the most nearly unambiguous system is the following (element X):



Position a = the MASS number
Position b = NUCLEAR CHARGE
Position c = ION CHARGE (if any)
Position d = NUMBER OF ATOMS PRESENT in a molecule

Those SI abbreviations based on a person's name (volt, hertz, pascal, etc) have the first letter capitalized (V, Hz, Pa). Normally abbreviations are not pluralized or punctuated with a period except at the end of a sentence. Their expansion is capitalized only at the beginning of a

*Therald Moeller, Inorganic Chemistry; An Advanced Textbook (New York: John Wiley and Sons, 1952).

sentence. A unit value is separated from its abbreviation with a space (16 V, 30 MHz) or a symbol (30°C, -275°F).

Abbreviations of prefixes indicating the powers of 10 are capitalized from mega- upwards and are lower-cased downward; their expansion is capitalized only at the beginning of a sentence.

Most expansions are listed as they would normally appear in text. However, for clarity, those abbreviations that are all capitals have had the corresponding letters in the expansions capitalized although the text would not necessarily call for capitalization. When pluralizing all capital abbreviations, use lower-case "s" without apostrophe.

All recipients of this guide are invited to provide input to future editions by sending their contributions to the author. If extra copies are desired, contact the author.

Besides reports written by SLA engineers and scientists, the following authorities have been consulted:

--Robert A. Ackley, Physical Measurements and the International (SI) System of Units (San Diego: Technical Publications, 1970).

--Elmor Devor, "Scientifc and Technical Abbreviations and Symbols," (Albuquerque: Sandia Laboratories memorandum, dated February 18, 1972).

--Daniel N. Lapedes., ed., Dictionary of Scientific and Technical Terms (New York: McGraw-Hill Book Co., 1974).

--David Hathwell and A. W. Kenneth Metzner, eds., Style Manual: For Guidance in the Preparation of Papers for Journals Published by the American Institute of Physics and its Member Societies (3rd ed, New York: American Institute of Physics, 1978).

--ABRACADABRA (Lexington, MA: Raytheon Co., 1973).

--"The Scientific Report: A Guide for Authors" (Lawrence Radiation Laboratory memorandum, May 1969).

--U. S. Government Printing Office (GPO) Style Manual (Washington: U. S. Government Printing Office, January 1973).

--Metric Practice Guide (Washington: American Society for Testing and Materials (ASTM), February 1976).

--Office Procedures Manual, Section VIII (Albuquerque: Sandia Laboratories, December 1977).

--Style Manual for Technical Reports (Albuquerque: Sandia Corporation, 1963).

--A Selected List of Abbreviations, Acronyms, and Codewords, SC-M-69-786 (Albuquerque: Sandia Laboratories, November 1969).

--Sandia Laboratories Engineering System (SLEDS) (Albuquerque: Sandia Laboratories, 1978).

--A Glossary of Terms, SC-M-69-169 (Albuquerque: Sandia Laboratories, April 1969).

--Style Manual (New York: American Institute of Physics, 1973).

--Standard Distribution for Classified Scientific and Technical Reports (Washington: Energy Research and Development Administration, September 1977).

--Metric Roster (Washington: American National Metric Council), published biweekly.

--Douglas M. Considine, ed., Van Nostrand's Scientific Encyclopedia (5th ed, New York: Van Nostrand Reinhold Company, 1976).

--EPRI Style Guide (Palo Alto, CA: Electric Power Research Institute, January 1978).

A&F	Arming and Fuzing
a	atto- (a prefix indicating 10^{-18}); are (area;100 m^2)
A	ampere (see amp); (length; 10^{-10} m)
A	angstrom
aA	abampere
AA	Atomic Absorbtion
AAAS	American Association for the Advancement of Science
AAM	Air-to-Air Missile
AAU	Accelerated Aging Unit
ab-	A prefix identifying cgs electromagnetic units (abamperes, abvolts, abhenries, etc); SI recommends avoidance
abamp	absolute ampere
ABC	Advanced Biomedical Capsule; Atomic, Biological, and Chemical (warfare)

ABRES	Advanced Ballistic ReEntry System
abs	absolute
ac	alternating current
Ac	actinium (chemical symbol)
aC	abcoulomb
AC	Access Control (in SCCS)
ACCM	Alternate CCM (see ACCS)
ACCS	Auxilliary Central Control Station (replaces ACCM)
ACE	Access Control Element (SCCS); Automatic Checkout Equipment
Ac-Em	Actinium-Emanation (also known as actinon (An))
acfm	active cubic feet per minute (chemical engineering)
ACIA	Asynchronous Communications Interface Adapter (SCCS)
ACM	Association for Computing Machinery
ACPR	Annular Core Pulse Reactor (see ACRR)
ACRE	Automatic Checkout and Readiness Equipment
ACRR	Annular Core Research Reactor (upgraded ACPR; gradually replacing it).
ACS	Advanced Computer Systems
AcU	actinouranium (nuclear physics)
AD	Arming Device; Advanced Development
A/D	Analog-to-Digital (converter; see ADC); Arm/Disarm
ADAC	Alarm Display and Assessment Console (SCCS)
ADC	Analog-to-Digital Converter (PPS); Air Defense Command; Atomic Demolition charge
ADCI	American Die Casting Institute
ADCON	ADdress CONstant (computers)
ADEP	Advanced Development Earth Penetrator
ADF	Adaptive Digital Filtering; Automatic Direction Finder

ADIZ	Air Defense Identification Zone
ADM	Atomic Demolition Munition
ADP	Automatic Data Processing
AEC	Atomic Energy Commission (now DOE)
AET	Accelerated Environmental Test
AEU	Accelerated Environmental Unit
af	audio frequency
aF	abfarad (discontinue); attoFarad
AFAP	Artillery Fired Atomic Projectile
AFBC	Atmospheric Fluidized-Bed Combustion
AFC	Automatic Frequency Control; Automatic Flight Control
AFD	Arming and Fuzing Device
AFE	AntiFerroElectric
AF&F	Arming, Fuzing, and Firing
AFGL	Air Force Geophysical Laboratory
AFLC/NSO	Air Force Logistics Command/Nuclear Support Office
AFS	Arming and Fuzing System
AFWL	Air Force Weapons Laboratory
Ag	silver (chemical symbol)
AGC	Automatic Gain Control
AGE	Aerospace Ground Equipment
AGL	Above Ground Level
AGR	Advanced Gas-cooled Reactor
AGZ	Actual Ground Zero
Ah	ampere hour
aH	abHenry

AI	Atomics International
AICBM	Anti ICBM
AIE	Acceptance Inspection Equipment
AIEE	American Institute of Electrical Engineers
AIFI	Automatic InFlight Insertion
AIP	American Institute of Physics
AIRS	Advanced Inertial Reference Sphere (missile guidance)
AK	Adaption Kit (QA)
aka	also known as
Al	aluminum (chemical symbol)
ALBM	Air-Launched Ballistic Missile
ALCM	Air-Launched Cruise Missile
ALDR	Abstracts of Limited Distribution Reports (by TIC)
ALGOL	ALGOrithmic (computer) Language
ALO	ALbuquerque Operations (field office of DOE)
alt	altitude; alternating
ALU	Arithmetic-Logic Unit (microprocessor CPU)
Am	americium (chemical symbol);ammonium
AM	Amplitude Modulation
A/m	ampere per meter (magnetic field strength)
AMBUSH	(an acronym for a computer teaching tool (game) to train SCCS personnel)
amp	amperage
AMPX	(a modular computer code)
amu	atomic mass unit
An	actinon (chemical symbol)
ANC	Aerojet Nuclear Corporation

AND	Advanced Nuclear Demolition
ANL	Argonne (or Aberdeen) National Laboratory
ANL/AP	ANL/Applied Physics division
ANL/CT	ANL/Components Technology division
ANL/MS	ANL/Material Sciences division
ANL/RAS	ANL/Reactor Analysis and Safety division
ANMC	American National Metric Council
ANS	American Nuclear Society; Aerospace Nuclear Safety
ANSI	American National Standards Institute
ANT	Advanced Nosetip Test
a/o	atom percent
AOI	And-Or-Invert
AP	Asbestos Phenolic
APAS	Automated Plutonium Assay System
API	American Petroleum Institute
APL	Advanced Physics Laboratory; Average Picture Level
APR	Airborne Profile Recorder (see TPR)
APT	Automatic Programming Tool
AQL	Acceptable Quality Level
Ar	Argon (chemical symbol)
ARES	Advanced ReEntry System
ARL	Acceptable Reliability Level
As	arsenic (chemical symbol)
AS	Air Speed
aS	abmho (absiemen)
ASA	American Standards Association (succeeded by USASI)
ASAP	As Soon As Possible

asb	apostilb (luminance; also known as blandel)
ASD	Adversary Sequence Diagram (SCCS)
ASM	Air-to-Surface Missile
ASME	American Society of Mechanical Engineers
assy	assembly
ASTM	American Society for Testing Materials
asym	asymmetric
at	atomic
At	astatine (chemical symbol); ampere-turn
ATBM	Advanced Tactical Ballistic Missile
ATIS	Air Transportable Instrumentation Shelter
At/m	Ampere-turn per metre
atm	atmospheres
ATMX	ATomic Munition eXplosive rail transport car
ATS	Administrative Terminal System (computers)
at wt	atomic weight
au	atomic units;astronomical unit
Au	gold (chemical symbol)
aux	auxiliary
aV	abvolt
AVC	Automatic Volume Control
AW	Atomic Weapon; Atomic Warhead
AWD	Atomic Weapon Data
Awg	American wire gage (should be accompanied by SI values)
AWRE	Atomic Weapons Research Establishment (England)
AWTG	Atomic Weapons Training Group

b	barn (unit of area; 10^{24} cm^2); bit (see bit)
B	bel (logarithmic ratio); boron (chemical symbol); brewster (optics)
Ba	barium (chemical symbol)
BA	Basic Assembly; Budget Authority
BAM	Ballistic Advance Missile
BASIC	Beginner's All-purpose Symbolic Instruction Code (computers)
Batt	Battery
BB	Black Body
bbl	barrel
bcc	body-centered cubic
BCD	Binary Coded Decimal
Bd	baud
BDT	Burst Delay Timer
Be	beryllium (chemical symbol)
Bé	Baumé (specific gravity)
BE	Binding Energy
BEHAVE	in-pile BEHAV(E)ior of fuel pins (computers)
beV	billion electron volts (now obsolete; use GeV)
BFO	Beat Frequency Oscillator
Bi	bismuth (chemical symbol); biot (an abampere; discontinue)
BISS	Base and Installation Security System
BISSPO	BISS Program Office
bit	BInary digiT (now accepted as a full word but seldom abbreviated when used alone; see, however, kb/S, Mb/S)
BIT	Built-In Test
Bk	berkelium (chemical symbol)
BKC	Bendix Corporation, Kansas City

BL	BaseLine
BNC	Bayonet, Neill Concelman (rf connector developed by Neill & Concelman)
BNFP	Barnwell Nuclear Fuel Plant (South Carolina)
BNL	Brookhaven National Laboratory
BNWL	Battelle NorthWest Laboratory
BO	Budget Obligation
BOD	Biochemical Oxygen Demand
bp	boiling point
BP	Band Pass
bpF	boil point °Fahrenheit
BPG	Boron Pyrolitic Graphite
Bq	becquerel (unit of activity of ionizing radiation)
Br	bromine (chemical symbol)
BRL	Ballistic Research Laboratory (Aberdeen)
b/s	bit per second (see bit)
BSI	British Standards Institute
BS&W	Basic Sediments and Water
BSR	Bulk Shielding Reactor
BTE	Battery Timing Equipment
BTL	Bell Telephone Laboratories
Btu	British thermal unit
BTX	Benzene-Toluene-Xylene
BW	BandWidth; Biological Warfare
Bwg	Birmingham wire guage
BWO	Backward-Wave Oscillator
BWR	Boiling Water Reactor

BY	Budget Year
c	centi- (a prefix indicating 10^{-2}; avoid, use mm)
C	capacitance; circumference; celsius (temperature); coulomb (quantity of electricity, in electrons); carbon (chemical symbol)
ca	approximately (use with dates only)
Ca	calcium (chemical symbol)
CABRA	Copper And Brass Research Association
CACECO	CAlculation of sodium spills in CElls for COntainment (computers)
CAD	Computer Aided Design
CAES	Compressed-Air Energy Storage
CAIS	Coded Aperature Imaging System
cal	calorie (avoid and discontinue ASAP; use the Joule)
CAL	Conversational Algebraic Language (computer)
calc	calculated
CAM	Completely Assembled Missile
CAS	Calibrated Air Speed; Compressed-Air Storage
CASP	Comparative Analysis of Standards (computer) Program
CAT	Clear Air Turbulence
CAW	Channel Address Word
Cb	columbium (chemical symbol; called niobium (Nb) by chemists)
cc	cubic centimetre (avoid; use cm^3)
c.c.	complex conjugate
CCB	Configuration Control Board
CCC	Command Control and Communications
CCEP	Close Coupling - Effective Potential (electron excitation)
CCM	Central Control Module (Safeguards System; see CCS); Counter-CounterMeasure

CCR	Cyclic Catalytic Reforming (chemical process)
CCS	Central Control Station (replaces CCM)
CCTV	Closed Circuit TeleVision
CCVT	Coupling Capacitor Voltage Transformer
ccw	counterclockwise
CCW	Channel Command Word
cd	candela (luminous intensity)
Cd	cadmium (chemical symbol)
CD	Computer Diode; Command Disable
CDA	Core Disruptive Accident (see HCDA)
CDC	Cumulative Defects Criteria
CDRL	Contractor Data Requirements List (BISS)
CDU	Capacitor Discharge Unit
Ce	cerium (chemical symbol)
CEP	Circular Error Probable (ICBM impact accuracy)
CERL	Commercial Equipment Requirements List
cf	compare
Cf	californium (chemical symbol)
CFRD	Confidential, Formerly RD
cg	centigram
CG	Center of Gravity
CGPM	Conference General des Poids et Measures (General Conference on Weights and Measures)
cgs	centimeter-gram-second (use of all units particular to this system is discouraged by SI)
chan	channel
CHEMKIN	CHEMical KINetics (computer code)
Ci	curie

CIA	Control Indicator Assembly
ckt	circuit
Cl	chlorine (chemical symbol)
CL	CenterLine
CLAZAS	CLad Axial (Z-direction) motion in subASsemblies (computers)
CLC	Central Logic and Control; Current-Limiting Conductor; Command Logic Control
cm	centimetre
cm^2	square centimetre (or cubed if with superscript 3)
c.m.	center of mass
Cm	curium (chemical symbol)
CM	Container Module (PPS)
cmf	circular mils/foot (electrical conductivity)
CMF	Common-Mode Failure
CMFD	Compressed Magnetic Field Device
cmil	circular mil
CMOS	Complementary Metal Oxide Semiconductor (Fast Adder)
CMP	Container Module Packaging (a room in PPS)
CMU	Control Monitor Unit
CNWDI	Critical Nuclear Weapon Design Information
Co	cobalt (chemical symbol)
coax	coaxial
COBOL	COmmon Business-Oriented Language (computers)
COBRA	Calculation Of flow in rod Bundle Reaction Assemblies (computers)
COD	Crack-Opening Displacement (oil shale fragmentation)
COED	Computer Operated Electronic Display

coef	coefficient (also coeff)
COGO	COordinated GeOmetry (computers)
COGS	Continous Orbital Guidance System
COI	Certificate Of Inspection (QA)
COIN	COunter INsurgency (QA)
colog	cologarithm
COM	Computer Output Microfilm
COMET	Computer-Operated Management Evaluation Technique
COMINT	COMmunications INTelligence
COMRADEX	effects of COntainment and Meteorology on the environmental RADiation EXposure resulting from a power reactor accident (computers)
COMSAT	COMmunication SATellite corporations
COMUX	COmbinatorial MUltipleX (oil shale retorts)
conc	concentrated; concentration
const	constant
CONTRN	(computer language not requiring translation)
CONUS	CONtinental United States
conv	converter
COPE	Critically Ordered Path Evaluator (computers)
CORCON	CORe/CONcrete (interaction code)
cos	cosine
cosh	hyperbolic cosine
cot	cotangent
COTAR	Correlated Orientation Tracking And Range (engineering)
COTAT	COrrelated Tracking And Triangulation (engineering)
coth	hyperbolic cotangent
COZI	COmmunication Zone Indicator

cp	chemically pure; candlepower
cP	centipoise
CP	Carbon Phenolic; Control Point
cpd	contact potential difference
CPFF	Cost Plus Fixed Fee
CPJ	Chlorinated Polyethylene Jacket (LOCA testing)
CPM	Critical Path Method (computer program)
CPS	Cycles Per Second (obsolete; use Hz)
CPU	Central Processing Unit (SCCS Computer Network)
Cr	chromium (chemical symbol)
CR	Catalytic Reforming
CRBRP	Clinch River Breeder Reactor Plant
CRC	Cyclic Redundancy Code (computers)
CREG	Controlled Reluctance Eddy-current Generator
CRF	Combustion Research Facility
CRM	Chemical Remanent Magnetization
CRO	Cathode Ray Oscilloscope
CRT	Cathode Ray Tube
Cs	cesium (chemical symbol)
CS	Can Select (container module power-enable signals in the PPS for selecting cans in which SNM is stored)
c/s	cycle(s) per second (obsolete; use Hz)
CSA	Canadian Standards Association; Canned SubAssembly
csc	cosecant
csch	hyperbolic cosecant
CSNI	Committee on Safeguards of Nuclear Installations
CSP	Chopped Silica Phenolic

CSS	Coded Switch Set; Component Support Structure
cSt	centistokes
CSW	Channel Status Work
CT	Cryoresistive Transmission; Current Transformer
CTB	Comprehensive Test Ban
CTBN	Carboxy Terminated polyButadiNe acrylonitiril
CTM	Collimation Test Module
CTP	Comprehensive Test Plan (QA)
CTR	Controlled Thermonuclear Reactor
CTW	Clean Tactical Weapon
cu	cubic
Cu	copper
CUSUM	CUmulative SUMation (SCCS)
CVC	Conserved Vector Current
CVT	Current Viewing Transformer
cw	continuous wave
cwt	hundredweight
CY	Calendar Year
C-4	Plastic explosive
d	density; day; deci- (a prefix indicating 10^{-1}); deuteron or deutron (nucleus of D)
D	debye (unit of electric dipole moment that equals 10^{-18} franklin cm); deuterium; dee (in a cyclotron); diopter (optics); darcy (unit of permeability; see mD)
da	dry air; deka- (a prefix indicating 10^{1})
DAC	Data Acquisition and Control (SCCS)
DARCOM	Development And Research COMmand
DAS	Data Acquisition System (thermometry)

DASA	Defense Atomic Support Agency (now DNA)
dB	decibel
DB	Depth Bomb
dBm	decibel referred to 1 milliwatt
dc	direct current
DC	Data Concentrator (computer network)
DCTL	Direct-Coupled Transistor Logic
DCU	Data Control Unit
DCWV	Direct Current Working Volts
DDA	Digital Differential Analyzer
DDTA	Derivative Differential Thermal Analysis
DEB	Depolarizer Electrolyte Binder (batteries)
DEC	Digital Equipment Corporation
DECANAL	DECision ANALyses (computer code)
DEFORM	fuel DEFORMation calculation (computers)
deg	degree
DEGS	DiEthylGlycolSuccinate (explosive)
DELSOL	"Of the Sun (Span)"; a solar energy computer code
DEMO	DEMOnstration plant (CRBRP) analysis (computers)
der	derivative
det	detonator
dev	deviation
df	direction finding
DFD	Demolition Firing Device
dg	decigram
DGZ	Designated Ground Zero

dHvA	de Haas-van Alphen (solid state magnetics)
DHX	Dump Heat eXchanger
dia	diameter
DIA	Defense Intelligence Agency (defunct)
dim	dimension
DIP	Dual In-line Package (SCCS)
dis/s	disintegrations per second
dL	decilitre
DLC	Data Link Control or Controller (SCCS)
dm	decimetre
DM	adamsite (army symbol)
dma	direct memory access
DMA	Division of Military Application (now Assistant Secretary for Defense Programs)
DMC	Digital MicroCircuit
DMP	Discrepancy MicroProcessor (SCCS)
DNA	Defense Nuclear Agency
DNB	Departure from Nucleate Boiling
DNT	DiNitroToluene (explosive)
DOB	Depth Of Burst
DOD	Department Of Defense
DOE	Department Of Energy
DOT	Department Of Transportation
DOVAP	DOppler Velocity And Position
DP	DewPoint
DPA	Diversion Path Analysis
dpdt	double-pole, double-throw (switches)
DPM	Dual Purpose Missile

dpst	double-pole, single-throw (switches)
DRAAG	Design Review And Acceptance Group
DRM	Depositional Remanent Magnetization
DSK	DiSK
DSB	Double Side Band (modulation)
DSP	Doctoral Study Program (SLA)
DTL	Diode Transistor Logic
DT	deuterium-tritium
DVM	Digital VoltMeter
DXT	Depth Times Thickness
dwg	drawing
Dy	dysprosium (chemical symbol)
DYMAC	DYnamic MAterial Control
dyn	dyne (unit of force in cgs system; avoid and use newtons)
E	einsteinium (chemical symbol - see also Es); exa- (a prefix indicating 10^{18})
EACLOC	Electron-Alkali (atom) CLOse Coupling (computer code)
EACT	Emergency Action and Coordination Team
EASI	Estimate of Adversary Sequence Interruption
EBFA	Electron Beam Fusion Accelerator
EBM	Electron Beam Machining
EBR-II	Experimental Breeder Reactor - II
EBW	Exploding Bridge Wire
EBWR	Experimental Boiling Water Reactor
ECA	Electronic Component Assembly
ECC	Emergency Core Coolant; Emergency Core Cooling
ECCM	Electronics Counter-CounterMeasures

ECCS	Emergency Core Cooling System
ECD	Electron Capture Detectors (of explosives)
ECLO	Emitter-Coupled Logic Operator
ECM	Electronic CounterMeasures; ElectroChemical Machining
eco	electron-coupled oscillator
ECPs	Engineering Change Proposals
ECSW	Extended Channel Status Word
ECTL	Emitter-Coupled Transistor Logic
ED	Engineering Development
EDM	Electron Discharge Machining
EDP	Electronic Data Processing
EDS	Energy Dispersive Spectroscopy; Emergency Disablement System
eff	efficiency
EHD	ElectroHydroDynamics
ehf	extremely high frequency
EHV	Extra High Voltage
EIA	Electronics Industries Association; Energy Information Administration (DOE)
EIC	Environmental Information Center
EIS	Environmental Impact Statement
EIVR	Exchange of Information by Visits and Reports (in regard to USA/UK defense agreement)
elf	extremely low frequency
ELINT	ELectromagnetic INTelligence
ELS	Explosive Light Sources
EMC	ElectroMagnetic Compatibility
emf	electromotive force
EMF	ElectroMagnetic Force

EMG	Explosive Marx Generator
EMI	ElectroMagnetic Interference (SCCS)
EMP	ElectroMagnetic Pulse
EMR	ElectroMagnetic Radiation
EMU	ElectroMagnetic Unit
ENDF	Evaluated Nuclear Data File
ENIAC	Electronic Numerical Integrator And Calculator (first digital computer, 1942)
ENS	Emergency Notification System
e/o	enrichment/percent
EOS	Equation Of State
EP	Earth Penetrator
EPA	Environmental Protection Agency
EPI	Electronic Position Indicator
EPR	Ethylene Propylene Rubber
EPROM	Erasable PROM; Electrically Programmable ROM
eq	equation
EQ	Equipment Qualification (QA)
equiv	equivalent
Er	erbium (chemical symbol)
ERA	ERDA Research Abstracts; Electron Ring Accelarator; Economic Regulatory Administration (DOE)
ERDA	Energy Research and Development Administration (now DOE)
ERDAM	ERDA Manual
erf	error function
erg-s	erg-second (the unit "erg" is no longer accepted in SI; use joules)
EROM	Erasable ROM

ERP	Effective Radiated Power
Es	einsteinium (chemical symbol - see also E)
ESD	Environmental Sensing Device
ESR	Electron Spin Resonance
ESS	Engineered Safeguards System
esu	electrostatic unit
ETS	Energy Transfer System
eu	entropy unit
e.u.	electron units
Eu	europium (chemical symbol)
EURATOM	EURopean ATOMic energy community
eV	electron Volt
EWP	Emergency War Plan
exp	exponent or exponential
f	femto- (a prefix indicating 10^{-15})
F	farad (electric capacitance); fermi; florine (chemical symbol)
FACT	Fully Automatic Compiler-Translator
FAD	Fuzing Arming Device
FA&F	Fuzing, Arming, and Firing
FAR	False Alarm Rate (SCCS)
FAS	Federation of American Scientists
FATE	Fuzing Arming Test and Evaluation
FBA	Force Balance Accelerometer
FBC	Fluidized-Bed Combustion
FBR	Fast Breeder Reactor
fc	footcandle; flow chart

fcc	face-centered cubic
FCDC	Flexible Confined Detonating Card
FCI	Fuel Coolant Interaction
FCL	Fault Current Limiter
FCTI	Fuel Coolant Thermal Interaction
fdm	frequency division multiplex
Fe	iron (chemical symbol)
FE	FerroElectric
FEB	Functional Electronic Block
FEP	Front End Processor (computers)
FERC	Federal Energy Regulatory Commission (DOE)
FESEM	Forcible Entry Safeguards Effectiveness Model (SCCS)
fet	field-effect transistor (switch)
FFM	Failed Fuel Mockup facility
FFT	Fast Fouier Transform (seismography)
FFTF	Fast Flux Test Facility
FGD	Flue Gas Desulfurization
FIC	Frequency Interference Control
FIFO	First-In, First-Out (inventory)
fig.	figure (avoid in technical writing; best to spell out)
FIR	Far-InfraRed (laser)
FIRL	Franklin Institute Research Laboratory
fl	fluid
FLEA	Flux Logic Element Array
FLECHT	Full-Length Emergency Core Heat Transfer
FLOSIM	FLOw SIMulation (computer code; simulates Pu Purification process)

fm	femtometre
Fm	fermium (chemical symbol)
FM	military term for Titanium Tetrachloride (TiCl4), a screening smoke; Frequency Modulation; FerroMagnetic
FMD	Fuel Motion Detection
FMDF	Fixed-Mirror Distributed Form
FMSC	Fixed-Mirror Solar Concentrator
fnp	fusion point (nuclear technology)
FORTRAN	FORmula TRANslation (computers)
FOSDIC	Film Optical Scanning Device for Input to Computers (computers)
fp	freezing point
FPA	Federal Preparedness Agency
FPFF	Full Power, Full Frequency (dry run)
FPS	Fence Protection System (SCCS)
FPU	First Production Unit
FQR	Field Quality Representative (QA)
Fr	francium (chemical symbol); franklin (known as statcoulomb, a unit of charge; discontinue)
FRAS	Fission gas Release And Swelling (computers)
FRD	Formerly Restricted Data
FREADM	Fast Reactor Excursion and Accident Dynamics Model (computers)
freq	frequency
FRG	Federal Republic of Germany (West)
FS	Fuming Sulphuric (acid; smoke agent)
FSAR	Final Safety Analysis Report
FSK	Frequency Shift Keying

FSN	Federal Stock Number
ft	foot (feet)
FTIR	Fourier Transform InfraRed spectroscopy
ftL	footlambert
ft-lbf	foot-pound force
FTR	Fast Test Reactor in FFTF
FTU	Flight Test Unit
FU	Finsen Unit (electromagnetics)
FUFO	FUll Fuzing Option (concept)
fV	femtovolt
FWCC	Fine Weave Carbon-Carbon (nosetip material)
fwd	forward
FWDR	Final Weapon Development Report
FWHM	Full Width, Half Maximum (pulse description)
FY	Fiscal Year
g	gram; acceleration due to gravity
G	gauss (avoid); giga- (prefix indicationg 10^9)
ga	gage
Ga	gallium (chemical symbol)
gal	gallon
GAO	General Accounting Office
Gb	gilbert (unit of electromagnetic force, discontinue)
GCFBR	Gas-Cooled Fast Breeder Reactor
Gc/s	gigacycle per second (obsolete; use GHz)
GC/MS	Gas Chromatography/Mass Spectroscopy
Gd	gadolinium (chemical symbol)

GE-BRD	General Electric - Breeder Reactor Division
GDS	General Declassification Schedule
Ge	germanium (chemical symbol)
GEOTEMP	GEOlogical TEMPerature (computer model)
GEND	General Electric Neutron Device
GESMO	Generic Environmental Statement on Mixed Oxide
GeV	gigaelectronvolt
GFE	Government Furnished Equipment
Gg	Gigagram
GHz	gigahertz
Gi	gilbert
GIF	Gamma Irradiation Facility (at Sandia)
GIGO	Garbage In, Garbage Out (computers)
GIS	Gas-Insulated Substation
gmv	gram-molecular volume
GMB	Glass MicroBalloon
gnd	ground
GOCO	GOvernment COntractor (DOE)
GOX	Gaseous OXygen
GPBTO	General Purpose Barbed Tape Obstacle (Concertina)
GPC	Gas Permeation Chromotography
GPO	Government Printing Office
gr	grain; gross
GRASS	Gas Release And Swelling Subroutine (computers)
GS	Geological Survey
GSA	General Services Administration
Gy	Gray (unit of radiation dosage)

GZ	Ground Zero (nuclear detonation)
h	hour; hecto- (prefix indicating 10^2)
H	henry (electric inductance); hydrogen (chemical symbol)
ha	hectare
HAA	Heterogeneous Aerosol Agglomeration (computers)
HAC	(followed by numeral) Heliostat Array Control (STTF)
HAF	High-Altitude Fuze
HAMOC	Hammer Analysis Method Of Characteristics (computers)
HARP	High Altitude Research Project
hav	haversine
HC	HexaChloroethane (screening smoke); Honey Comb
HCDA	Hypothetical Core Disruptive Accident
hcp	hexagonal close packed
HDR	Hot Dry Run
HDX	Half-DupleX (circuits)
He	helium (chemical symbol)
HE	High Explosive
HEDL	Hanford Engineering Development Laboratory (Washington)
HEED	High-Energy Electron Difraction
HELIOS	(computer analytic code in heliostat technology)
HELP	High Energy Laser Program
HEM	Homogeneous Equilibrium Model (computer subroutine)
HEPA	High-Efficiency Particulate Absolute (filters)
hex	hexagonal
hf	high frequency
Hf	hafnium (chemical symbol)

hfdf	high-frequency direction finder
HFIR	High-Flux Isotope Reactor
hfs	hyperfine structure
Hg	mercury (chemical symbol)
HHC	High Heat Capacity (ACPR)
HIACA	High Intensity Adjustable Cobalt Array
HK	Hefner candle (optics)
HLGPT	High-Level General Process Trash
HLLW	High-Level Liquid Waste
HLW	High-Level Waste (nuclear waste technology)
HMC	Hybrid MicroCircuit
HNL	Holifield National Laboratory
Ho	Holmium (chemical symbol)
HOB	Height Of Burst
HOP	High-Oxygen Pressure
HOPE	Hypothetical OverPower Excursion (computers)
HOTPIM	Hydrodynamics Or Two-Phase Internal Mixture (computers)
hp	horsepower
HPFL	High-Performance Fuel Laboratory
HPOF	High-Pressure Oil-Filled
HPT	High-Potential Tester
HRS	Heat Rejection System (STTF)
ht	height
HTGR	High Temperature, Gas-cooled Reactor
hv	high voltage
HVAC	Heating, Venting, and Air Conditioning (vents)
HYDAC	HYbrid DAC

Hz	hertz (cycles per second)
I	iodine (chemical symbol)
IACS	International Annealed Copper Standard
IAEA	International Atomic Energy Agency
IAeS	Institute of Aerospace Sciences
IANUS	Integrated Analysis of NUclear Systems (computers)
IAW	In Accordance With
IC	Integrated Circuits or Chips; Inductance-Capacitance
ICA	Item Controlled Area (computer safeguards, vault)
ICBM	InterContinental Ballistics Missile
ICD	Interface Control Document
ICECO	Implicit Continuous Eulerian COntainment code (computers)
ICECO-H	ICECO-Hydrodynamic
ICECO-HT	ICECO-Heat Transfer
ICEPEL	ICECO Piping and ELbow analysis
ICFM	In-Core Fuel Management
ICRU	International Commission on Radiological Units and measurements
ICS	Intermittent Control System
ICT	International Critical Tables
icw	interrupted continuous wave (e.g., Morse code)
ID	Inside Diameter
IDMM	Integrating Digital MultiMeter (computerized measurement)
IDO	Internal Distribution Only
IDP	Integrated Data Processing
IEEE	Institute of Electrical and Electronics Engineers, Inc.
IEMP	Internal ElectroMagnetic Pulse

if	intermediate frequency
IFF	Identification, Friend or Foe
IGZ	Indicated Ground Zero
IHE	Insensitive High Explosive
IHTS	Intermediate Heat Transport System
IHX	Intermediate Heat eXchanger
ILF	InfraLow Frequency
ILLW	Intermediate-Level Liquid Waste
ILW	Intermediate-Level Waste
IMU	Inertial Measurement Unit
in.	inch (avoid; use SI units)
In	indium (chemical symbol)
INEL	Idaho National Engineering Laboratory
INMM	Institute of Nuclear Material Management
INTEC	IN-hours Technical Education Courses (SLA)
I/O	Input/Output
IOC	Initial Operational Capability
IOCS	Input/Output Control System
IOIS	Input/Output Interface System (in the Modcomp™)
IPL	Information Processing Language (computers)
ips	inches per second
Ir	iridium (chemical symbol)
IR	InfraRed
IRBM	Intermediate Range Ballistics Missile
IRE	Institute of Radio Engineers
IRM	Isothermal Remanent Magnetization

IRV	Interim Reentry Vehicle (parachute recovery)
ISB	Independent SideBand (modulation)
ISC	Instrument Sector Committee (subdivision of ANMC)
ISEM	Insider Safeguards Effectiveness Model (SCCS)
ISLR	Integrated SideLobe Ratio
ISO	International Standards Organization
ISOSHLD	ISOtope SHieLDing calculations (computers)
ISTM	International Society for Testing Materials
ITI	Ion Track Instrument (explosive detection)
ITU	International Telecommunications Union
IWDR	Interim Weapon Development Report
IWPA	International Word-Processing Association
J	joule (work, energy, quantity of heat)
JANUS	Nd-glass Laser System (name of system)
JAWTIG	Joint Atomic Weapon Technical Information Group
JB	Junction Box
jct	junction
J/deg	joule per degree
JFTP	Joint Flight Test Plan
JIT	Joint Interface Tests (QA)
J/K	joule per kelvin
JNACC	Joint Nuclear Accident Coordinating Center
JOSS	Johanniac Oren-Shop System (a time-sharing computer language)
JOVIAL	Jules (Schwartz) Version of the International Algorithmic Language (computers)
JOWOG	JOint WOrking Groups (US/UK bilateral defense agreement)
JSSP	Joint Stockpile Sampling Program (QA)

JTA	Joint Test Assembly (QA)
JTS	Joint Test Subassembly (QA)
JTWG	Joint Test Working Group (QA)
k	kilo (prefix indicating 10^3)
K	kelvin (thermodynamic temperature; since 1967 the degree symbol has been discontinued with this); potassium (chemical symbol); kayser (unit of reciprocal length; known as rydberg)
kA	kiloampere
kb	kilobarn
kbar	kilobar
kb/s	kilobits per second (see bit)
kcal	kilocalorie
KCAS	Knots Calibrated AirSpeed
kc/mol	kilocalories per mole
kc	kilocycle (obsolete; use kHz)
kCi	kilocuries
kc/s	kilocycle per second (see Hz)
KE	Kinetic Energy
keV	kiloelectronvolt
kg	kilogram
kG	kilogauss
kgf	kilogram force (avoid; use newtons (N))
$kg \cdot m^2$	kilogram-metre squared (moment of inertia and product of inertia)
kHz	kilohertz
kin	kinetic
kips	kilo-instructions per second
kJ	kilojoule

kL	kilolitre
km	kilometre
KMR	Kwajalein Missile Range
kn	knot (speed)
Kr	krypton (chemical symbol)
KSI	Kips per square inch (K = 1000)
kt	kilo ton
KTAS	Knots True AirSpeed
kV	kilovolt
kVA	kilovoltampere
kvar	kilovar (1000 volt-amperes reactive)
kW	kilowatt
kWh	kilowatthour
K_I	Stress intensity factor for Mode I crack opening (materials)
K_{Ic}	Critical stress intensity factor for Mode I crack opening (materials)
l	The International symbol for litre (see L; equals one cubic decimeter; use permitted in SI but discouraged because it represents two measures)
L	Since Nov. 16, 1976, the U.S. symbol for litre since lower case l can be confused with the numeral 1*
L	lambert (unit of luminance); inductance
La	lanthanum (chemical symbol)
LAC	Lightning Arrester Connector (used in conjunction with EMR)
LADAR	LAser Detection And Ranging
LAFO	Los Alamos Field Office
LASER	Light Amplification by Stimulated Emission of Radiation

*The Metric Reporter, 4:26 (December 24, 1976); Office Procedure Manual II, February 24, 1978

LASL	Los Alamos Scientific Laboratory
lat	latitude
LD_5	Lethal Dose (subscript = dose)
lb	pound
lbf	pound force
LBL	Lawrence Berkeley Laboratory
LC	inductance/capacitance; Liquid Chromatography
LCC	Life-Cycle Cost
LCD	Local Control and Display (SCCS)
LCE	Laboratory Component Evaluation (QA)
LCM	Least Common Multiple; Large Core Memory
LCT	Laboratory Component Test
L/D	Link/Diameter
LED	Light Emitting Diode
LEED	Low Energy Electron Defraction
LEMUF	Limit of Error on Material Unaccounted For
LET	Linear Energy Transfer (stopping power)
lf	low frequency
LHe	Liquid Helium
Li	lithium (chemical symbol)
LICA	Low-Intensity Cobalt Array
LIFE	anaLysis of In-pile Fuel Elements (computers)
LIFO	Last-In First-Out (inventory)
lim	limit
lin	lineal; linear
LISP	LISt Processing (computer language)
LJT	Long Junior Trilock

LIOCS	Logical Input/Output Control System (computers)
LLC	Limited Life Component
LLGPT	Low-Level General Process Trash
LLL	Lawrence Livermore Laboratories; Low-Light Level (optics); Low-Level Logic (computers)
LLW	Low-Level Waste (nuclear waste technology)
lm	lumen (luminous flux)
LMFBR	Liquid Metal Fast Breeder Reactor
lm-s	lumen second
LNG	Liquified Natural Gas
LO	Local Oscillator
LOC	Limited Operational Capability
LOCA	Loss-Of-Cooling Accident
LOF	Loss-Of-Flow accident
LOFT	Loss-Of-Fluid Test
LOFAR	LOw-Frequency Acquisition and Ranging
log	logarithm (common)
long	longitudinal
LORAN	LOng RAnge Navigation
LOS	Line Of Sight
LOX	Liquid Oxygen eXplosive (commonly used only for liquid oxygen)
LP	Linear Programming
LPT	Line PrinTer
Lr	lawrencium (chemical symbol)
LRAM	Long Range Attack Missile

LRL	Lawrence Radiation Laboratories (obsolete; now LLL)
LSB	Least Significant Bit (computers)
LSD	Least Significant Digit (computers)
LSI	Large-Scale Integrated circuit (SCCS)
LTE	Local Thermodynamic Equilibrium
LTPD	Lot Tolerance Percent Defective (QC)
Lu	lutetium (chemical symbol)
LVDT	Linear Variable Displacement Transformer
LVT	Linear Velocity Transducer
LWC	Liquid Water Content (Climatology)
LWIR	Long-Wave InfraRed
LWR	Light Water Reactor
lx	lux (illuminance)
LY	Low Yield
L^3	(see LLL)
μ	micro -
μm	micrometer (formerly called micron)
μs	microsecond
m	metre; milli- (a prefix indicating 10^{-3})
m	molarity (chemistry)
M	mega- (a prefix indicating 10^6); molarity (chemistry)
M	mole
m	milliohm
M	megohm
mA	milliampere
MAC	Material Accountability Computer; Military Airlift Command
MAD	Maintenance, Assembly, and Disassembly (atomic weapons)

MADDS	Machine Aided Design Definition System (interactive computer graphics system)
MADM	Medium Atomic Demolition Munition
MADT	MicroAlloy Diffused Transistor
MAF	Moisture Ash Free
MAID	Monitor Adaptor Isolation Device; Magnetic Anti-Intrusion Detector (SCCS; see MILES)
MAGLOC	MAGnetic LOgic Computer
MAP	MacroAssembly Program (computers)
MARGE/SLUMP	MARGE/fuel SLUMPing (computers)
MARV	MAneuvering Reentry Vehicle
MASER	Microwave Amplification by Stimulated Emission of Radiation
MASP	Mobile Automatic Scanning Photometer (STTF)
MAVIS	Modeling and Analysis of Valve InteractionS (computer code)
MAW	Medium Assault Weapon
MAWP	Maximum Allowable Working Pressure
max	maximum
mb	millibarn
MBA	Material Balance Accounting
mbar	millibar
Mb/s	Megabits per second
Mc	megacycle (obsolete; use MHz)
MC	Major Component
MCCS	Multiple Code Coded Switch
mCi	millicurie
MCi	megacurie
md	median

mD	millidarcy (geology)
Md	mendelevium (chemical symbol- see also Mv)
MDF	Mild Detonating Fuze
MDR	Mandatory Dry Run
meas	measured
MEASIM	MEAsurement SIMulation (computer code)
meq	milliequivalent
MELT	MultiplE-channel anaLysis of Top accidents (computers)
meq	milliequivalent
MESFET	Metal Electrode Semiconductor Field Effect Transistor
MeV	million electron volts (megaelectronvolt)
MEW	Microwave Early Warning
mF	millifarad
MFLOPS	Million FLOating Point operations per Second (computers)
mf	medium frequency
mfp	mean free path
mg	milligram
Mg	magnesium (chemical symbol); megagram--one metric ton (often written tonne without the metric; avoid, use megagrams)
MGS	Missile Guidance Set
MHB	Medium Height Burst
mhd	Magnetohydrodynamics
mH	millihenry
mHz	millihertz
MHz	megacycle per second (megahertz)
mi	mile (statute)
MILES	Magnetic Intrusion LinE Sensor (SCCS; generally coupled with MAID); Multiple Integrated Laser Engagement System (fireams aimer)

MILSPEC	MILitary SPECification
MILVAN	a standard military freight container
min	minute; minimum
MINT	Miniature Instrumental Nosetip Test
MIRV	Multiple Independently (targeted) Reentry Vehicle
MIRVAL	MIRror eVALuation (computer program for heliostats)
MITMS	Military/Industry Technical Manual Specification
MITE	Magnetically Insulated Transmission Experiment
Mk	(followed by a number) Mark-
Mkg	megakilogram (avoid; use Gg)
mks	metre-kilogram-second
mL	millilitre
mm	millimetre
mM	millimole
mmf	magnetomotive force
mmHg	millimetre of mercury,conventional
MMA	Materials Measurement and Accounting (SCCS/PPS); Martin Marrieta Aeospace (Orlando, FL)
MMRBM	Mobile Medium Range Ballistic Missile
mmu	millimass-unit
Mn	Manganese (chemical symbol)
MNOS	Metal-Nitride - Oxide Semiconductor
MNR	MonoNitroResorcinate
Mo	molybdenum (chemical symbol)
mod	modification
MOFFF	Mixed-Oxide Fuel Fabrication Facility (SCCS)
MOC	Material Operation Computer (SCCS)

Modcomp	(trade name; acronym for Modular Computer Systems, Inc. products)
mol	mole (amount of substance - gram molecule; see M)
mol wt	molecular weight
MONAL	MObile Nondestructive Assay Laboratory
MORT	Management Oversight and Risk Tree (accident investigations)
MOS	Metal Oxide Semiconductor
MOS FET	MOS Field-Effect Transistor
MOTION	analysis of head MOTION due to HCDA loads (computers)
MOV	Metal Oxide Varistor
MOX	Mixed OXide
mp	melting point; mean effective pressure
MPa	megapascal
MPC	Maximum Permissable Concentration
MPE	Maximum Permisable Exposure (radiation)
MPLS	MultiPhenomena Line Sensor (SCCS)
mrad	millirad
Mrad	megarad
mR	milliroentgen
MRBM	Medium Range Ballistics Missile
mrem	millirem
ms	millisecond
mS	millisiemens
MSB	Most Significant Bit (computer programming)
MSBR	Molten Salt Breeder Reactor
MSD	Most Significant Digit (computer programming)
MSI	Medium-Scale Integrated circuit (SCCS)

msl	mean sea level
MSLB	Main Steam Line Break
MSR	Molten-Salt Reactor
Mt	megaton
MTBF	Mean Time Between Failure(s) (QA)
MTHM	Metric Tons Heavy Metal
MTTF	Mean Time To Failure
MTTFF	Mean Time To First Failure
MTR	Mean Time to Restore
MTU	Metric Tons Uranium
MUF	Material Unaccounted For
MUX	MUltipleXing equipment
Mv	mendelevium (chemical symbol - see also Md)
mV	millivolt
MV	megavolt
MVPD	Median Volume Pore Diameter
mW	milliwatt
MW	megawatt
MWd	Megawatt days
MWe	megawatt (electrical); SI discourages this usage (ASTM, 1976)
MWth	megawatt (thermal); see MWe
Mx	maxwell (unit of magnetic flux; discontinue)
MY	ManYear
mya	myriare (10,000 ares)
myL	myrialitre
mym	myriametre
n	neutron; nano- (a prefix indicating 10^{-9})

N	newton (unit of force); nitrogen (chemical symbol); normal (chemistry)
nA	nanoampere
Na	sodium (chemical symbol)
NA	Not Available; Not Applicable
NAHAMMER	sodium (Na) fluid-HAMMER anaylsis (computers)
NALAP	sodium (Na) version of reLAP (computers)
NAND	Not-AND (computer Logic)
NATRAN	sodium (Na) TRANsient analysis (computers)
NAS	National Academy of Sciences
NASA	National Aeronautics and Space Administration
nb	nota bene (note well); nanobarn
Nb	niobium (chemical symbol; called columbium (Cb) by metallurgists)
NBDS	Nuclear Burst Detection System
NBS	National Bureau of Standards
NCM	NonConforming Material
Nd	neodymium (chemical symbol)
ND	Neutral Density
NDRO	NonDestructive ReadOut (computers)
NDT	NonDestructive Testing
Ne	neon (chemical symbol)
NEC	National Electrical Code
neg	negative
NELIAC	Nary Electronics Laboratory International ALGOL Compilers (computers)
NERVA	Nuclear Engine for Rocket Vehicles Applications
NEST	Nuclear Emergency Search Team

nF	nanofarad
nf	noise factor
NFS	Nuclear Fuel Services
n/gs	neutron per gram-second
Ni	nickel
Ni-Cad	nickel-cadmium (battery)
NLT	Not Later Than
nm	nanometre
N·m	newton metre
NMFT	New Material Flight Test (QA)
nmi	nautical mile
NMIS	Nuclear Material Identification System
NMLT	New Material Laboratory Testing (QA)
NMMSS	Nuclear Materials Management and Safeguards Systems
NMR	Nuclear Magnetic Resonance (oil shale retorting)
NMST	New Material System Testing
No	nobelium (chemical symbol)
NOCSIM	Nitrate-to-Oxide Conversion SIMulation (computer code)
nom	nominal
NO OP	NO OPeration (computers)
NOR	Not OR (computer logic)
NOS	Network Operating System (timesharing on SLA computers)
Np	neper (logarithmic ratio); neptunium (chemical symbol)
NPG	Nuclear Planning Group
NPN	Negative-Positive-Negative (transistor)
NRC	Nuclear Regulatory Commission

NRDS	Nuclear Rocket Development Station (defunct)
NRV	Nose Recovery Vehicle (parachute recovery)
ns	nanosecond
NSF	National Science Foundation
NSI	National Security Information
NSPE	National Society of Professional Engineers
NSS	National Stockpile Site
NSSS	Nuclear Steam Supply System
nt	nit (lumininance)
ntc	negative temperature coefficient
NTIS	National Technical Information System (clearing house operated by the U.S. Dept of Commerce)
ntp	normal temperature and pressure
NTS	Nevada Test Site
NUMEC	NUclear Materials and Equipment Company
NUREG	(a number issued by NRC for a document)
NVO	NeVada Operations office (of DOE)
nW	nanowatt
NWEF	Naval Weapons Evaluation Facility, KAFB
Ω	ohm
O	oxygen (chemical symbol)
OAD	Ordnance Available Date
obs	observed
OCE	Operations Control Element (SCCS)
OCONUS	Outside CONUS
OCR	Optical Character Recognition (Data Processing)
OD	Optical Density; Outside Diameter

Oe	oersted (unit of magnetic field flux in cgs; discontinue)
ONWI	Office of Nuclear Waste Isolation
OPDAR	OPtical Direction And Ranging
OPM	Office Procedure Manual (SLA)
OPST	Out-of-Pile Systems Test
ORLA	Optimum Repair-Level Analysis
ORNL	Oak Ridge National Laboratory
ORO	Oak Ridge Operations
ORRIBLE	Oak Ridge Reactor Inlet BLockagE code (computers)
Os	osmium (chemical symbol)
OT&E	Operation Test And Evaluation
OUO	Official Use Only
OWI	Office of Waste Isolation (nuclear waste technology; now ONNI)
Oy	oralloy (^{235}U)
oz	ounce
p	proton; pico- (prefix indicating 10^{-12})
P	poise(dynamic viscosity avoid); phosphorus (chemical symbol); peta- (prefix indicating 10^{15})
Pa	pascal (unit of pressure, stress); protactinium (chemical symbol)
pA	picoampere
PA	Power Amplifier
PAC	Pershing Airborne Computer
PAAC	Program Analysis Adaptable Control
PAD	PAjarito Dynamics code (computers)
PADAR	PAssive Detection And Ranging
PAHR	PostAccident Heat Removal

PAL	Permissive Action Link
PAM	Pulse Amplitude Modulation
PAN	PeroxyAcetylNitrate
PAPS	Permissive Arming and Protection System
PASC	Probability of Adversary Sequence Completion (SCCS)
PASTF	Photovoltaic Advanced Systems Test Facility
PATRICIA	Practical Algorithm To Retrieve Information Coded In Alphanumeric (computer program)
Pb	lead (chemical symbol;plumbum)
PBE	Prompt Burst Energetics
PBX	Plastic Bonded eXplosive; Private Branch eXchange (teletype)
PBW	Parts By Weight
PC	Printed Circuit; Polymer Concrete
PCB	PC Board
PCI	Pellet-Clad Interaction
PCM	Pulse Code Modulation; Pulse Count Modulation
PCP	Primary Control Program (computers)
PCR	Program Change Request
pct	percent
Pd	palladium (chemical symbol)
PD	Pulse Duration; Pulse Doppler; Potential Difference
pdl	poundal
PDL	Program Design Language (SCCS)
PDM	Pulse Duration Modulation
PDP	Programmed Data Processor
PDU	Process Demonstration Unit
pe	probable error

PECS	Probabilistic Evaluation of Cladding Stress (computers)
PED	PhotoElectric Detector
PEPS	Photovoltaic Electric Power System
PERT	Performance (or Program) Evaluation Review Technique (computers)
PETN	PentaErythritol TetraNitrate (explosives)
pF	picofarad; water holding energy
PF	Power Factor
PFBC	Pressurized Fluidized-Bed Combustion
PFM	Pulse Frequency Modulation
PFMAINT	Permanent File MAINTenance (computers)
PFN	Pulse Forming Network
ph	phase; phot (illuminance; disscontinue and use lux)
PHTS	Primary Heat Transport System
PIA	Peripheral Interface Adapter (computers)
PIC	Polymer-Impregnated Concrete
PID	Personnel Identification Device (SCCS)
PIE	PostIrradiation Examination
PIFITE	PIpe FloodIng TransiEnt (computers)
PIM	Pulse Interval Modulation
PIOCS	Physical Input/Output Control System (see LIOCS)
PIPER	Pulse Intense Plasma for Exploratory Research
PIO	Programmed Input/Output; Peripheral Input/Output
PIP	Pulsed Integrating Pendulum
P_k	Weapon Kill Probability
pkg	package
Pl	Poiseuille (viscosity)
PLBR	Prototype Large Breeder Reactor

PLUTO	Prediction of moLten fUel behavior under Transient Overpower conditions (computers)
Pm	promethium (chemical symbol)
PM	Phase (or) Pulse Modulation; PhotoMultiplir
PMM	Pulse Mode Multiplex
PMR	Proton Magnetic Resonance
PNL	Pacific Northwest Laboratory
PNP	Positive-Negative-Positive (electronics circuits)
Po	polonium (chemical symbol)
POCC	Plant Operations Control Center (SCCS)
POCO	AXM-5Q graphite
POINTER	Particle Orientation INTERferometer
POPS	Probabilistic evaluation of transient OverPower cladding Stress (computers)
PORPLUG	PORous PLUG heat-generating blockage (computers)
pos	positive
PP	Peak-to-Peak
ppb	parts-per-billion
ppm	parts per million
PPM	Pulse Position Modulation
PPMO	Pershing Project Management Office
pps	pulses per second
PPS	Plant Protection System; (more often) Plutonium Protection System
Pr	praseodymium (chemical symbol)
PRCF	Plutonium Recycle Critical Facility
PRF	Pulse Repetition Frequency
pri	primary

PROM	Programmable Read Only Memory
PRR	Pulse Repetition Rate
PRVM	Peak-Reading VoltMeter
ps	picosecond
PSAR	Preliminary Safety Analysis Report
psi	pounds per square inch
psia	psi absolute
psig	psi gage
PSS	Perimeter Surveillance System
PSU	Program Storage Unit
Pt	platinum (chemical symbol)
PT	Production Type; Pigmy Trilock (connectors)
PTM	Pulse Time Modulation (or Multiplex)
Pu	plutonium (chemical symbol)
PUREX	Plutonium Uranium Reduction EXtraction
PVT	Pressure-Volume-Temperature
pW	picowatt
PW	Pulse Width
PWDR	Preliminary Weapon Development Report
PWM	Pulse Width Modulation
PWR	Pressurized Water Reactor
Pz	pieze (pressure)
PZT	Lead (Pb) Zirconite Titanate (ferroelectrics)
QA	Quality Assurance
QAA	Quality Assurance Agency
QAIA	Quality Assurance Inspection Agency

QAIP	Quality Assurance Inspection Procedures
QAP	Quality Assurance Procedure
QAPPC	Quality Assurance Program Planning Committee
QASL	Quality Assurance, Sandia Laboratories
QATI	Quality Assurance Test Instructions
QAVI	Quality Assurance Verification Instructions
QC	Quality Control
QCR	Quality Control/Reliability
QEP	Quality Engineering Project
QER	Qualification Engineering Release (QA)
QEST	Quality Evaluation Systems Tester
QP	Quartz Phenolic
qr	quarter (see qtr)
QRA	Quick Reaction Alert
QSI	Quantum Systems, Inc. (Albuquerque)
qt	quart
QTE	Qualification Testing Evaluation
qtr	quarter
qty	quantity
quad	quadrant
QUIC	QUasi-Instantaneous Control
qual	qualitative
r	radius
R	roentgen (unit of absorbed radiation dose); resistance; reaumur (temperature scale); rankine (temperature does take a ° sign); universal gas constant (value = .082)
R	rockwell (unit of hardness)
R-Wave	Rayleigh-Wave (seismography)

Ra	Radium (chemical symbol); rockwell, scale a (hardness)
rad	radian (plane angle); radiation absorbed dose (see rd)
radar	(originally capitalized for RAdio Detection And Ranging)
RADIAC	RAdiation Detection Indication And Computation
RADINT	RADar INTelligence
RAM	Random Access Memory (SCCS); Read And Modify memory (digital controllers); RadioActive Material (transportation technology)
RAS	Reactor Analysis and Safety division of ANL
RASER	Radio frequency Amplification by Stimulated Emission of Radiation
Rb	rubidium (chemical symbol); rockwell, scale b (hardness)
RB	Reentry Body
RBE	Relative Biological Effectiveness (of radiation)
Rc	Rockwell, scale c (hardness)
RC	Resistance-Capacitance
RCU	Reference Control Unit
rd	rad (unit of absorbed radiation dose liberating 100 ergs of energy per gram or 10^{-2} J/kg; supersedes the roentgen; originally rad was an acronym (see rad))
Rd	rutherford (radioactive decay)
RD	Restricted Data
rdf	radio direction finding
RDRF	Receive Data Register Full (computer digital control)
RDT	Reactor Development and Technology
RDT&E	Research, Development, Test, and Evaluation
RDX	(popular abbreviation for cyclomite, an explosive; letters have no particular meaning)
R&D	Research and Development
Re	rhenium (chemical symbol); Reynolds number (see RP)

REB	Relativistic Electron Beam
redox	reduction oxidation
ref	reference
Rem	roentgen equivalent, man
Rep	roentgen equivalent, physical
REST	Retrofit Evaluation System Test (QA)
REXCAT	REXCO coupled with SADCAT
REXCO	Reactor EXcursion COntainment analysis (computers)
REXCO-H	REXCO-Hydrodynamic (computers)
REXCO-HEP	REXCO-Hydrodynamic, Elastic-Plastic (computers)
REXCO-HEP-HT	REXCO-HEP-Heat Transfer (computers)
REXCO-HT	(see above)
REZONE	REZON(E)ing of lagrangian grids (computers)
rf	radio frequency
rfi	radio frequency interference
RFI	Request For Information
RFP	Request For Proposals
RFQ	Request For Quotation (purchasing)
RGZ	Recommended Ground Zero
Rh	rhodium(chemical symbol)
RH	Relative Humidity
RHM	Roentgen-per-Hour-at-one-Metre
RI	Radio Interference
RIBD	Reactor Inventory of Beta Decay isotopes (computers)
RIC	Resistance-Inductance-Capacitance
rms	root-mean-square

Rn	radon (chemical symbol)
rΩc	reciprocal ohm centimetre (electrical conductivity)
rΩm	reciprocal ohm metre (electrical conductivity)
ROM	Read Only Memory (computers)
ROMC	ROM Control
RP	Reynold Part (followed by a numeral; detonators)
Rph	roentgens per hour
rpm	revolutions per minute (avoid, use rps or rad/s)
rps	revolutions per second
RRRV	Rate of Rise of Recovery Voltage
RS	Reentry System
RSS	Reactor Safety Study
RTAF	Read-Time Aperture Flux (STTF)
RTG	Radioisotope Thermoelectric Generator
RTL	Resistor-Transistor Logic (computers)
Ru	ruthenium (chemical symbol)
RV	Reentry Vehicle
R wave	Rayleigh wave (seismology)
Ry	rydberg (see kayser)
s	second
S	siemens (electric conductance); sulphur (chemical symbol)
SADARM	Search And Destroy ARMament
SADCAT	Structural Analysis of 3-D Core Assembly Transient (computers)
SADM	Small Atomic Demolition Munition
SAF&F	Safing, Arming, Fuzing, and Firing
SAHP	Solar-Augmented Heat Pump

SAI	Science Applications, Inc. (La Jolla, CA)
SAK	(a one-dimensional kinetics computer code)
SALE	Safeguards Analytical Laboratory Evaluation
SALT	Strategic Arms Limitation Talks
SAM	Sensor Access Manager (SCCS-related subroutine library for sensor management in the DAC);Surface-to-Air Missile
SAMS	Sandia/Airforce Materials Study
SAMSO	Space And Missiles Systems Organization
SAO	Sandia Area Office
SAR	Safety Analysis Report
SAS	Safety Analysis System (computers)
SASL	(a finite element stress code - computers)
Sb	antimony (chemical symbol); stilb (optics)
SBEL	Structural Behavior Engineering Laboratory (Phoenix, AZ)
Sc	scandium (chemical symbol)
SCC	Stress Corrosion Cracking
SCCF	Sprayed Chopped-Carbon Fiber
SCCM	Standard Cubic Centimeters per Minute (chemical engineering)
SCCS	Safeguards Central Control System
SCDR	Sandia Corporation Development Report
scf	standard cubic feet
scfh	standard cubic feet per hour (coal industry)
SCM	Small Core Memory
SC-M	SLA Miscellaneous report
SCPR	SLA Progress Report
SCRR	SLA Research Report
SCPV	Safeguards Coordination and Performance Verification (SCCS)

SCR	Silicon Control Rectifier
SCS	Secure Container System; Supplementary Cooling System
SCSP	Single Crystal Silicon Photovoltaics
SCSR	SLA Systems Report
SCTM	SLA Technical Memoranda
SCWD	SLA Weapon Development (report)
SD	Self Destruct; Standard Deviation
SDA	Source Data Automation (computers)
SDD	System Design Description
SDL	Sandia Development Laboratory (QA)
SDR	Systems Design Review; Significant Defect Reports (now SFIR)
Se	selenium (chemical symbol)
SE	Standard Error
SEAL	SEa-Air-Land
SEBAS	Scattering of Electrons By Atomic Systems (computer code)
sec	secant
SEC	Secondary Electron Conduction
SED	Stockpile Entry Date; Skin Erythema Dose (radiation)
SEDO	Specified External Distribution Only
SEFOR	SouthEast Fast Oxide Reactor
SEM	Scanning Electron Microscopy
SEP	Spherical Error Probable
seq	sequence
SERF	Sandia Engineering Reactor Facility
SERI	Solar Energy Research Institute
SES	Standards Engineers Society
SETS	Set Equation Tranformation System (computer programming)

SFE	Slim loop FerroElectric
SFIR	Significant Finding Investigative Report (QA)
SFRD	SECRET FRD
SFT	Stockpile Flight Test (QA)
SG	Superconducting Generation
SGM	Spark-Gap Modulation
SHAC	Solar Heating And Cooling
SHED	Solar Heat Exchange Drive
shf	super high frequency
SHORAN	SHOrt RANge (radio)
Si	silicon (chemical symbol)
SI	le System International d'Unites; international system of units
SIC	Standard Industrial Classification
SIDSS	Sandia Irradiator for Dried Sewage Sludge
SIEX	Steady-state In-pilE behavior of miXed-oxide fuels (computers)
SIGMA	(categories of distributions for Atomic Weapon Data Reports)
SIL	Systems Integration Laboratory (SLA)
SIMMER	S_n Implicit Multifield Multicomponent Eulerian Recriticality (computers)
SIMPLE	Subassembly Interchange Mixing Program for fLow Effects (computers)
sin	sine
SIS	Safeguards Information System
SLA	Sandia Laboratories Albuquerque; Sea, Land, and Air
SLIFER	Shorted Location Indication From Electrical Resonance
SLL	Sandia Laboratories, Livermore

SLM	Standard Litres per Metre (coal industry)
SLT	Stockpile Laboratory Test (QA)
SLUMPY	fuel SLUMP(Y)ing (computers)
Sm	samarium (chemical symbol)
SMCTF	Solar Materials and Components Test Facility
SMES	Superconducting Magnetic Energy Storage
SMI	Static Memory Interface (microprocessors)
Sn	tin (chemical symbol)
SNAP	Systems for Nuclear Auxiliary Power
SNM	Special (Strategic) Nuclear Material
SNOBOL	StriNg Oriented symBOlic Language (computers)
SNR	Sodium-cooled Nuclear Reactor; Signal-to-Noise Ratio
SNU	Solar Neutrino Unit
SOC	Security Operations Office (SCCS); Security Operations Computer (computers)
SODIPROP	SODIum PROPerties (computers)
SOFAR	SOund Fixing And Ranging
SOFIRE	analysis of SOdium FIREs (computers)
sol	soluble
soln	solution
SOMIX	SOdium MIXing with oxygen (computers)
SONAR	SOund Navigation And Ranging
SOP	Standard Operating Procedure
SOR	Specific Operational Requirement
SOS	Silicon-On-Saphire (memory)
SOW	Statement Of Work
sp act	specific activity

SPADAT	SPAce Detection And Tracking system
SPCDS	Small Permanent Communications and Display Segment (PPS)
spdt	single pole, double throw (switch)
spec	specification
sp gr	specific gravity
sp ht	specific heat
SPL	Sound Pressure Level
SPO	(see BISSPO); Special Projects Office (Navy)
SPR	Sandia Pulsed Reactor (QA); Strategic Petroleum Reserve
SPRAY	sodium SPRAY fires (computers)
SPS	Sun-Present Sensor (STTF)
spst	single pole, single throw (switch)
SPT	Signal Processor and Timer
SPUR	Space Power Unit Reactor
sp vol	specific volume
sq	square (avoid; use superscript^2)
sr	steradian (solid angle)
Sr	strontium (chemical symbol)
SRAM	Short Range Attack Missile
SRBM	Short-Range Ballistic Missile
SRD	Secret RD
SRI	Stanford Research Institute
SRIR	SemiRigid Inspection Resin
SRP	Savannah River Plant
SS	Stainless Steel
SSB	Single SideBand
SSD	Steady-State Distribution

sSf	standard saybolt, fural
SSM	Secure Storage Modules (PPS); Single Sideband Modulation
SSP	Stockpile Sampling Program
SSR	Solid State Relays
SSS	Systems Science and Software (a company)
SST	Safe Secure Transport (or trailer)
SSTTP	Safeguards System Test Target Program (missile launching)
sSu	standard saybolt, universal
St	stoke (kinematic viscosity; avoid)
ST	Superconducting Transmission
STADAN	Space Tracking And Data Acquisition Network
stalo	stable local oscillator
stat-	(prefix indicating an electrical unit in electrostatic cgs system of units; SI recommends discontinuance)
std	standard
STED	Solar TurboElectric Drive
STF	Safety Test Facility at ANL
STM	Secure Transport Module (PPS; an armored dolly to transport SNM around the plant)
STP	System Test Plan; Standard Temperature and Pressure
STRAW	STRuctural Analysis of subassembly Wrappers (computers)
STRESS	STRuctural Engineering System Solver (computers)
STS	Stockpile-to-Target Sequence
STTF	Solar Thermal Test Facility
STU	Scientific Test Unit
Sus	saybolt universal second
SW	short wave

SWR	Standing Wave Ratio
SYNROC	SYNthetic ROCk
SYSIN	SYStem INput (computers)
SYNF	SYNthetic gaseous and liquid Fuels
S^3	Safety, Security, and Survivability (transportation of weapons)
t	triton (the nucleus of tritium); temperature in celsius (see T)
T	tesla (magnetic flux density); tera-(prefix indicating 10^{12}); temperature in kelvin; T=273.15+t, exactly; tritium (chemical symbol)
Ta	tantalum (chemical symbol)
TA	Transverse Acoustic
tan	tangent
tap^{-}	unit of impluse (1 dyne-s/cm^2)
TAPS	Tunnel And Pipe System
TARE	Telemetry Automatic Reduction Equipment
Tb	terbium (chemical symbol)
TBE	Total Binding Energy
Tc	technetium (chemical symbol)
TC	ThermoCouple
TD	Theoretical Density
TDDL	Time Division Data Link
TDM	Time Divsion Multiplex
TDRE	Transmit Data Register Empty (a flag in digital controllers)
Te	tellurium (chemical symbol)
TE	Transverse Electric
TEM	Transverse ElectroMagnetic; Transmission Electron Microscopy
temp	temperature

TERCOM™	TERrain COntour Matching system
TES	Thermal Energy Storage
TFT	Thin-Film Transistor
TFTR	Tokamak Fusion Test Reactor (Princeton's Plasma Physics Lab)
TGA	Thermal Gravimeter Analysis
Th	thorium (chemical symbol)
thk	thick
thm	Therm (British unit of temperature)
THT	Transient Heat Transfer
Ti	titanium (chemical symbol)
TIC	Technical Information Center (Oak Ridge)
TID	Technical Information Division of TIC; Traveling Ionospheric Disturbances
TIU	Transducer Interface Unit (SCCS)
Tl	thallium (chemical symbol)
TLD	ThermoLuminescent Dosimeter
TLTA	Two-Loop Test Apparatus
Tm	thulium (chemical symbol)
TM	Tone Modulation; Transverse Magnetic
TMS	Tool-Made Sample (QA)
Tn	thoron (chemical symbol; gas)
TN	ThermoNuclear
TNT	TriNitroToluene (explosive)
TO	Transverse Optic
TOFF	Transient Overpower Fuel element Failure (computers)
tol	tolerance

TOP	Technical Operating Plan; Transient OverPower accident; Total Obscuring Power (measure of smoke screening)
Torr	torr (a unit of pressure and stress;avoid, use pascal (Pa))
TPR	Terrain Profile Recorder (also known as APR)
TPV	ThermoPhotoVoltaic
tr	transmit/receive
TRANSWRAP	TRANsient Sodium Water Reaction Analysis Program (computers)
TRAPP	Transient Response to Applied Pressure Pulses (computers)
TREAT	Transient REActor Test facility
TRU	TRansUranic
TRW	Thompson, Ramo, Woolmich (corporation)
TSSG	Trajectory Sensing Signal Generator
TTC	Transportation Technology Center
TTL	Transistor-Transistor Logic
TTM	Two Tone Modulation
TTR	Tonopah Test Range
Tu	Tuballoy (99.3% ^{238}U, 0.7% ^{235}U; name for metallic uranium shipped to Tube Alloys, Ltd, the British equivalent of the Manhattan Project)
TUBE	pressure pulses in TUBEs (computers)
TVI	TeleVision Interference
Tw	twaddell (or Twaddle; unit of specific gravity)
TWT	Traveling Wave Tube; Trisonic Wind Tunnel
TWNP	Tape Wound Nylon Phenolic
TWX	TeletypeWriter eXchange Service
u	Atomic mass unit (unified)
U	uranium (chemical symbol)
UART	Universal Asynchronous Receiver/Transmitter

UBITRON	Undulating Beam Interaction elecTRON tube
UC	Unclassified Category (distribution)
UCL	Upper Control Limit (QC)
UGT	UnderGround Test
uhf	ultrahigh frequency
UJT	UniJunction Transistor
UKAEA	United Kingdom Atomic Energy Authority
UPH	Underground Pumped Hydro
USART	Universal Synchronous/Asynchronous Receiver/Transmitter
USASI	USA Standards Institute (succeeds ASA)
USG	Unique Signal Generator
USMB	U.S. Metric Board
UT	Ultrasonic Testing
uv	ultraviolet
UVASER	Ultra-Violet Amplification by Stimulated Emission of Radiation
v	velocity
V	volt (electrical potential); vanadium (chemical symbol)
VA	voltampere
vac	vacuum
VAC	Vacuum Atmospheric Company (Hawthorne, CA)
VAr	volt-ampere reactive
VAR	Visual-Aural Range
VAWT	Vertical Axis Wind Turbine
VC	Verification Chamber (PPS)
VCO	Voltage-Controlled Oscillator
V_e	Exhaust Velocity (rocket trajectory; expressed in m/s)

VEC	Variable Explosive Chamber
VDFG	Variable Diode Function Generator
VENUS	a computer code superseding MARS code for disassembly analysis
vf	video frequency
vhf	very high frequency
VISAR	Velocity Interferometer System for Any Reflector
VLBI	Very-Low Baseline Interferometry
vlf	very low frequency
VLR	Very Long Range
VLSI	Very Large-Scale Integrated circuit (SCCS)
VM	Velocity Modulation
v/o	volume/percent
vol	volume
VSB	Vestigial SideBand
VSM	Vestigial Sideband Modulation
VSWR	Voltage Standing-Wave Ratio
VT	Vacuum Tube
VTVM	Vacuum Tube VoltMeter
vu	volume unit
W	watt (power); tungsten or wolfram (chemical symbol)
W-ARD	Westinghouse-Advanced Reactors Division
WATS	Wide Area Telephone System
Wb	weber
WDSR	Weapon Development Status Report
w.e.	water equivalent
WE	Western Electric

WES	Warhead Electrical System
Wh	watt hour
WH	WarHead
WHI	WarHead Installation
WHS	WarHead Section
WHTU	WarHead Test Unit
WIPP	Waste Isolation Pilot Project (or plant)
wk	week
w/o	weight/percent; without
WP	White Phosphorus (screening smoke)
WR	War Reserve (stockpile of weapons);Working Receiver (STTF)
WS	Weapons System
WSET	Weapon Systems Evaluation Test
WSMR	White Sands Missile Range
W/sr	watt per steradian
wt	weight
WTDC	Waste Tank Diverter Cell (SCCS)
WWC	Wire-Wound Calorimeter
X	Reactance
Xe	xenon (chemical symbol)
XGDS	eXempt from GDS
XTL	Crystal
XRD	X-Ray Detector
xu	x unit (the siegbahn,a unit of length)
Y	yttrium (chemical symbol)
YAG	Yttrium Aluminum Garnet (Laser)

Yb	ytterbium (chemical symbol)
yd	yard
YIG	Yttrium Iron Garnet (Laser)
yr	year
ZEG	Zero Energy Growth
Zn	zinc (chemical symbol)
ZOC	Zone Operations Control
ZPPR	Zero-Power Plutonium Reactor
Zr	zirconium (chemical symbol)