

ACRONYMS AND ABBREVIATIONS

AA	Atomic Absorption
A&PCT	Active and Passive Computed Tomography (non-destructive assay technique)
ACDA	Arms Control and Disarmament Agency
ADAS	Associate Deputy Assistant Secretary
AECL	Atomic Energy of Canada, Limited
AEC	Army Environmental Center
AEERL	Air and Energy Engineering Research Laboratory (EPA, Research Triangle Park, NC)
AEU	Analytical Equivalent Unit - The analytical burden associated with full analysis of a typical five-segment Hanford tank core sample
AFC	Accelerated Facility Characterization
AFCEE	Air Force Center for Environmental Excellence
AFIT	Air Force Institute of Technology
AGL	Above Ground Level
AHCAT	Advanced Hot Cell Analytical Technology
ALARA	As Low as Reasonably Achievable
ALCD	Alternative Landfill Cover Demonstration
Am	Americium
AMWTP	Advanced Mixed Waste Treatment Project (at INEEL)
ANET	Active Nitrogen Excitation Transfer
ANET	American Network for Environmental Technologies
ANL	Argonne National Laboratory
ANS	Advanced Neutron Source (\$2.7 billion facility proposed for ORNL)
ANSI	American National Standards Institute
AOTF	Acousto-Optic Tunable Filter
APCE	Air Pollution Control Equipment
APCI	Atmospheric Pressure Chemical Ionization
API	American Petroleum Institute or Application Programming Interface
APNEA	Active & Passive Neutron Examination and Assay (system)
APSF	Actinide Packaging and Storage Facility (at the Savannah River Site)
As	Arsenic
ARA	Applied Research Associates, Inc.
ARARs	Applicable or Relevant and Appropriate Requirements
AREAL	Atmospheric Research and Exposure Assessment Laboratory an EPA laboratory at Research Triangle Park, NC
ARPA	Advanced Research Projects Agency (DoD)
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing Materials
ASV	Anodic Stripping Voltammetry
ATG	Advanced Technology Group
ATM	Asynchronous Transfer Mode
AVIRIS	Airborne Visible/Infrared Imaging Spectrometer
AVLIS	Atomic Vapor Laser Isotope Separation
AVS	Application Visualization System
AWG	Acoustic Wave Guide
Ba	Barium
BACT	Best Available Control Technology
BAR	Bulk Acoustic Resonator
BCL	Battelle Columbus Laboratories
BDAT	Best Demonstrated Available Technology
Be	Beryllium

BEMR	Baseline Environmental Management Report (EM's baseline approach and costs, a report developed in response to a Congressional requirement)
bgs	below ground surface
BHC	Bechtel Hanford Company
BHI	Bechtel Hanford Incorporated
BIF	Boiler and Industrial Furnace (EPA)
BNL	Brookhaven National Laboratory
BOD	Biochemical Oxygen Demand
BRAC	Base Realignment and Closure (Commission) (DoD)
BTAG	Biological Technical Assistance Group (EPA)
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
Ca	Calcium
CAA	Clean Air Act
CAAA	Clean Air Act Amendments (of 1990)
CAA	Contaminant Analysis Automation
CAALS	Consortium on Automated Analytical Laboratory Systems
CAI	Controlled Air Incinerator (one at LANL)
CalEPA	California Environmental Protection Agency
CAMU	Corrective Action Management Unit (EPA)
CATD	Center for Advanced Technology Development (at Iowa State University)
CCD	Charge Coupled Device
Cd	Cadmium
CDI	Canyon Disposition Initiative
CDIF	Component Development and Integration Facility
CEM	Continuous Emissions Monitor
CEPOD	Catalyzed Electrolytic Plutonium Oxide Dissolution
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980, also known as Superfund: Amended in 1986 by the Superfund Amendments and Reauthorization Act (SARA). Addresses the cleanup of inactive and abandoned hazardous waste sites.
CERFA	Community Environmental Response Facilitation Act
CETRED	Combustion Emissions Technical Resource Document
CFAST	Center for Field Analytical Studies and Technologies (Tufts University)
CFEST	Coupled Fluid, Energy, and Solute Transport (computer code)
CFR	Code of Federal Regulations
CGA	Cylinder Gas Audit (for emission monitors)
CH	Contact Handled (packaged TRU waste whose external surface dose rate does not exceed 200 mrem per hour)
CHC	Chlorinated Hydrocarbons
Ci	Curie
CICO	Cost-Integrated Contractor Order
CIF	Consolidated Incineration Facility (a rotary kiln incinerator with wet/dry offgas treatment and integral ash handling/treatment capability at the DOE Savannah River Site)
CKRC	Cement Kiln Recycling Coalition
CLP	Contract Laboratory Program
Cm	Curium
CMA	Chemical Manufacturers Association
CMS	Corrective Measure Study -- study, under RCRA, to develop and evaluate corrective measures and recommend the final corrective measure.
CMST-CP	Characterization, Monitoring, and Sensor Technology - Crosscutting Program
CMW	Charles Machine Works Inc.
CNF	Central Neutralization Facility (Oak Ridge)
CoC	Certification of Compliance (EPA)
COI	Contaminant of Interest
COTS	Commercial-Off-The-Shelf

CPS	Cone Penetrometer System
CPT	Cone Penetrometer Truck or Cone Penetrometer Testing
Cr	Chromium
CRADA	Cooperative Research and Development Agreement
CRREL	Cold Region Research and Engineering Laboratory (Hanover, NH)
CRWI	Coalition for Responsible Waste Incineration
Cs	Cesium
CSAMT	Controlled Source Audiofrequency Magnetotelluric
CSCT	Consortium for Site Characterization Technology (EPA/DOE/DoD)
CSTP	Conceptual Site Treatment Plan
CT	Computed Tomography
CVAAS	Cold Vapor Atomic Absorption Spectrometry
CVD	Chemical Vapor Deposition
CWA	Clean Water Act
CWC	Chemical Warfare Convention
DART	Distributed Acoustic Reflection Transducer
DAS	Deputy Assistant Secretary
DAWM	Dual Arm Work Module (robotics program)
D&D	Deactivation and Decommissioning
DDE	Dynamic Data Exchange
DDFA	Deactivation and Decommissioning Focus Area
DERA	Defense Environmental Restoration Account
DIA	Defense Intelligence Agency
DIAL	Diagnostic Instrumentation and Analysis Laboratory, Mississippi State University
DNA	Defense Nuclear Agency
DNAPL	Dense Non-Aqueous Phase Liquids
DNFSB	Defense Nuclear Facilities Safety Board
DNS	Domain Name Service
DOAS	Differential Optical Absorption Spectrometry
DOC	Department of Commerce
DoD	Department of Defense
DOE	Department of Energy
DOI	Department of Interior
DOIT	Committee to Develop On-Site Innovative Technologies
DQOs	Data Quality Objectives: Statements that specify the data needed to support decisions regarding remedial response activities.
DRE	Destruction and Removal Efficiency
DRO	Diesel Range Organics
dscm	dry standard cubic meter
DSITMS	Direct Sampling Ion Trap Mass Spectrometry
DSTP	Draft Site Treatment Plan
DSWA	Defense Special Weapons Agency
DWPF	Defense Waste Processing Facility (vitrification plant)
EDE	Effective Dose Equivalent
EDTA	Ethylenediamine tetraacetic acid
EE/CA	Engineering Evaluation / Cost Analysis
EEGS	Environmental and Engineering Geophysical Society
EG&G	Edgerton, Germeshausen, and Grier, Inc.
EIC	EIC Inc.
EIS	Environmental Impact Statement
ELISA	Enzyme-Linked Immuno-Sorbent Assay
EM	Office of Environmental Management
EMAB	Environmental Management Advisory Board
EMB	Emissions Measurement Branch

EML	Environmental Measurements Laboratory (DOE, New York)
EMSL-LV	Environmental Monitoring Systems Laboratory, Las Vegas
EMSP	EM Science Program
EMWD	Environmental Monitoring While Drilling
EnTICE	Environmental Technology Innovation, Commercialization, and Enhancement (EPA Program)
EPA	Environmental Protection Agency
Epcot	Walt Disney World/Epcot Center
EPIC	Environmental Photographic Interpretation Center
EPRI	Electric Power Research Institute
ER	Office of Environmental Restoration
ERA	Expedited Response Action
EREE	Extended Reach End Effector
ERIM	Environmental Research Institute of Michigan
ERT	Electrical Resistance Tomography
ESC	Expedited Site Characterization
ES&H	Environment Safety and Health
ESI	Expanded Site Investigation
E-SMART	Environmental Systems Management, Analysis, and Reporting NeTwork (open standard for sensors - under development by General Atomics for the U.S. DoD)
ESP	Electrostatic Precipitator or Extended Sludge Processing
ESTCP	Environmental Security Technology Certification Program (DoD)
ETI	Environmental Technology Initiative – EPA
eV	Electron Volt
EXAFS	Extended X-ray Absorption Fine Structure
FANES	Furnace Atomization Nonthermal Emission Source (or Spectrometry)
FAR(s)	Federal Acquisition Regulation(s)
FAST	Future Analytical Support Team
FCCSET	Federal Coordinating Council for Science, Engineering and Technology
FCF	Fuel Conditioning Facility (at ANL-W)
FDH	Fluor Daniel Hanford
Fe	Iron
FET	Field Effect Transistor
FETC	Federal Energy Technology Center
FFCA	Federal Facility Compliance Act (enacted 6 October 1992)
FFEO	Federal Facilities Enforcement Office (EPA)
FGE	Fissile Gram Equivalent
FIA	Flow Injection Analysis
FID	Flame Ionization Detector
FIMS	Flow Injection Mercury System (Perkin Elmer)
FIT	Field Investigation Team
FMF	Fuel Manufacturing Facility (at ANL-W)
FONSI	Finding of No Significant Impact (issued by DOE)
FPM	Flexural Plate Wave
FRTR	Federal Remediation Technologies Roundtable
FS	Feasibility Study
FSP	Field Sampling Plan: Defines in detail the sampling and data gathering activities to be used at a site (see SAP).
FSU	Former Soviet Union
FTAM	Flow Through Alpha Monitor
FTC	Federal Trade Commission
FTIR	Fourier Transform Infrared Spectroscopy
FTP	File Transfer Protocol
FY	Fiscal Year

GAAT	Gunite and Associated Tank (ORNL Project)
GAO	U. S. General Accounting Office
GC	Gas Chromatography
GC-MS	Gas Chromatography - Mass Spectrometry
GFAAS	Graphite Furnace Atomic Absorption Spectrometry
GFC	Gas Filter Correlation (multiple wavelength infrared spectroscopy)
gfp	green fluorescent protein
GIF	Graphics Interchange File (format)
GIS	Geographic Information System
GMT	Geiger Mueller Tube
GISC	Generic Intelligent Systems Control (computer control system for robotics)
GNAT	Gamma-Neutron Assay Technique
GPR	Ground Penetrating Radar
GPRA	Government Performance and Results Act
GPS	Global Positioning System
GRI	Gas Research Institute
GRO	Gasoline Range Organics
GRS	Gamma Ray Spectrometer
GTCC	Greater than Class C (NRC Low Level Radioactive Waste classification) (See 10 CFR 61, Jan 1, 1990).
HAP	Hazardous Air Pollutant
HAPS	Hazardous Air Pollution Standards (EPA's)
HAZWOPER	Hazardous Waste Operations and Emergency Response
He	Helium
HEPA	High Efficiency Particulate Air (filter)
HEU	Highly Enriched Uranium
HEUN	Highly Enriched Uranyl Nitrate
HFEF	Hot Fuel Examination Facility (at ANL-W)
HFIR	High Flux Isotope Reactor (at ORNL)
Hg	Mercury
HLW	High-Level Waste
HOPG	Highly Oriented Pyrolytic Graphite
HRS	Hazard Ranking System (EPA): The primary basis for selecting sites for the NPL.
HSP	Health and Safety Plan
HTI	Hanford Tank Initiative
HTML	Hypertext Markup Language
HTO	Hydrothermal Oxidation
HTTP	Hypertext Transport Protocol
HWI	Hazardous Waste Incinerator
HWIR	Hazardous Waste Identification Rule (EPA proposed)
IAEA	International Atomic Energy Agency
IAETL	International Association of Environmental Testing Laboratories
IAG	Interagency Agreement or Industry Affiliates Group
IBA	Integrated Biological Assessment
IC	Ion Chromatography
ICERVS	Interactive Computer Enhanced Remote Viewing System
ICO	International Commission for Optics
ICP	Inductively Coupled Plasma
ICPAES	Inductively Coupled Plasma Atomic Emission Spectrometry
ICPMS	Inductively Coupled Plasma Mass Spectrometry
ICPP	Idaho Chemical Processing Plant
ICRP	International Commission on Radiological Protection
ICT	Integrated Contractor Team
IDA	Institute for Defense Analysis

IDAD	Intensified Diode Array Detector
IDW	Investigation-Derived Waste
IETO	Interagency Environmental Technology Office
IGRIP	Interactive Graphic Robotic Instruction Program
IH	Industrial Hygiene
IMA	Immunoassay
IMS	Ion Mobility Spectrometry
IMSS	Integrated Monitoring and Surveillance System
INEEL	Idaho National Engineering and Environmental Laboratory
INMM	Institute of Nuclear Materials Management
IPA	Intergovernmental Personnel Act (governs personnel assignments)
IPAN	Imaging Passive & Active Neutron (non-destructive assay technique)
IPEP	Integrated Performance Evaluation Program (a part of the NAMP)
IPR	In-Process Review
IR	Infrared
IRB	Internal Review Budget
IRF	EPA Incineration Research Facility - A pilot-scale rotary kiln incineration system (at Acurex Environmental, Jefferson, Arkansas)
IRIS	Integrated Risk Information System
IRP	Installation Restoration Program (Camp Edwards)
ISE	Ion Selective Electrode
ISV	<i>In Situ</i> Vitrification
ITRC	Interstate Technical Regulatory Cooperation (WGA DOIT Committee Working Group)
ITRD	Innovative Treatment and Remediation Demonstration
ITSR	Innovative Technology Summary Report
IUPAP	International Union of Pure and Applied Physics
IWG	Interface Working Group
IWPF	Idaho Waste Processing Facility (for treatment of alpha-contaminated waste)
IWTF	Idaho Waste Treatment Facility
IWTP	Idaho Waste Treatment Program
JCCEM	Joint Coordinating Committee for Environmental Restoration and Waste Management
K	Potassium
KAPL	Knolls Atomic Power Laboratory
LAER	Lowest Achievable Emission Rate
LAMPF	Los Alamos Meson Physics Facility
LANL	Los Alamos National Laboratory
LASS	Laser Spark Spectroscopy
LAW	Low-Activity Waste
LBNL	Lawrence Berkeley National Laboratory
LC	Liquid Chromatography
LDR	Land Disposal Restrictions
LDRD	Laboratory Directed Research and Development
Lead Agency	The agency having primary responsibility and authority for planning and executing the remediation at a site.
LEL	Lower Explosive Limit
LESAT	Lockheed Environmental Systems and Technologies Company
LEU	Low Enriched Uranium
LIBS	Laser-Induced Breakdown Spectroscopy
LIF	Laser-Induced Fluorescence
LIFI	Laser-Induced Fluorescence Imaging
LIMS	Laboratory Information Management System
LITCO	Lockheed Idaho Technologies Company
LLC	Limited Liability Corporation

LLNL	Lawrence Livermore National Laboratory
LLW	Low Level Waste
LMER	Lockheed Martin Energy Research (Corp) ORNL managing contractor
LMES	Lockheed Martin Energy Systems (Corp)
LMITCO	Lockheed Martin Idaho Technology Company
LMSC	Lockheed Martin Specialty Components (Corp)
LOD	Limit of Detection
LOGS	Laser Optogalvanic Spectrometry
LOI	Loss on ignition
LRAD	Long Range Alpha Detector
LSDP	Large Scale Demonstration Project(s)
LSEER	Linear Solvation Energy Relationships
LTTD	Low Temperature Thermal Desorption
LW	Lamb Wave
M	Molar
MACS	Mobile Automated Characterization System (robotics)
MACT	Maximum Achievable Control Technology
MARS	Mobile Analysis Reconnaissance System (for Hanford HLW tanks) – a joint effort of the Hanford Corporate Planning Board including DOE-RL, WHC, PNL, KEH, NIS, Inc., and CPAC
MARSSIM	Multi-Agency Radiation Site Survey and Investigation Manual
MAWS	Minimum Additive Waste Stabilization
MCA	Multichannel Analyzer
MCL	Maximum Contaminant Level: Established under the Safe Drinking Water Act.
MCLG	Maximum Contaminant Level Goal: Established under the Safe Drinking Water Act.
MCNP	Monte Carlo Neutron Photon (software code)
MCT	Mercury Cadmium Tellurium (infrared detector)
MDA	Minimum Detectable Activity
MDLEST	Mobile Demonstration Laboratory for Environmental Screening Technologies
MEAS	Multiwavelength Emission Absorption Spectroscopy (a DIAL project)
MEO	Mediated Electrochemical Oxidation
MEPAS	Multimedia Environmental Pollutant Assessment System
Mg	Magnesium
MGP	Manufactured Gas Plant
MIME	Multipurpose Internet Mail Extensions
MINATOM	Ministry of Atomic Energy of the Russian Federation
MIP	Microwave Induced Plasma
3M	Minnesota Manufacturing and Mining Corporation
MMR	Massachusetts Military Reserve (Cape Cod)
MMSC	Martin Marietta Specialty Components
Mn	Manganese
MOU	Memorandum of Understanding
MPRSA	Marine Protection Research and Sanctuaries Act
MRI	Midwest Research Institute, Kansas City
MRS	Monitored Retrievable Storage
MS	Mail Stop
MSO	Molten Salt Oxidation
MSW	Municipal Solid Waste
MTU	Mobile Treatment Unit
MVST	Melton Valley Storage Tanks
MWC	Municipal Waste Combustor
MWFA	Mixed Waste Focus Area
MWIP	Mixed Waste Integrated Program
MWIR	Mixed Waste Inventory Report
MWMF	Mixed Waste Management Facility (Livermore)

MWTP	Mixed Waste Treatment Project
MYPP	Multi-Year Program Plan
MYWP	Multi-Year Work Plan
Na	Sodium
NAA	Neutron Activation Analysis
NAAQS	National Ambient Air Quality Standards
NAC	Nitrate to Ammonia and Ceramic (process)
NADH	Nicotinamide Adenine Dinucleotide (H indicating the reduced form)
NAG	Nitrate to Ammonia and Glass (process)
NAIC	National Association of Insurance Companies
NaI(Tl)	Sodium-Iodide (thallium-doped) Spectrometer
NAMP	National Analytical Management Program (EM)
NAPL	Non Aqueous Phase Liquid
NAS	National Academy of Science
NASA	National Aeronautics and Space Administration
NAWTEC	North American Waste-to-Energy Conference
NCEPI	National Center for Environmental Publications and Information (US EPA)
NCP	National Oil and Hazardous Substances Pollution Contingency Plan; also National Contingency Plan
NCRP	National Council on Radiation Protection and Measurements
NCTR	National Center for Toxicological Research
NDA	Non-Destructive Assay
NDE	Non-Destructive Evaluation
NDIR	Non-Dispersive Infrared
NEPA	National Environmental Policy Act
NERI	Northeast Research Institute
NERL	National Exposure Research Laboratory (EPA)
NESHAPs	National Emissions Standard for Hazardous Air Pollutants (EPA)
NESTC	National Environmental Science and Technology Council (established by EM)
NFA	No Further Action
NGA	National Governors' Association
NIEHS	National Institute of Environmental Health Sciences
NIM	Nuclear Instrument Module
NIOSH	National Institute for Occupational Safety and Health
NIR	Near Infrared
NIST	National Institute of Standards and Technology
NJIT	New Jersey Institute of Technology
NLT	Not Later Than
NMR	Nuclear Magnetic Resonance
NMSO	Nuclear Materials Stabilization Office (a.k.a. NMSTG, EM-66)
NMSTG	Nuclear Materials Stabilization Task Group
NNPP	Naval Nuclear Propulsion Program
No.	Number
NOI	Notice of Intent
NORM	Naturally Occurring Radioactive Materials
NPDES	National Pollutant Discharge Elimination System (of the Clean Water Act)
NPL	National Priorities List: A list of sites identified for remediation under CERCLA.
NRC	Nuclear Regulatory Commission or National Research Council
NREL	National Renewable Energy Laboratory (DOE, Golden, Colorado)
NRMRL	National Risk Management Research Laboratory (EPA)
NSTC	National Science and Technology Council (A cabinet-level council, chaired by the President, charged with coordinating science, space, and technology policies throughout the federal government.)
NTCR	Non Time-Critical Removal
NT3 or NNTT	Nonthermal Treatment Technology

NTW	National Technical Workgroup (on Mixed Waste Thermal Treatment)
NWCF	New Waste Calcining Facility (at INEEL)
OAQPS	Office of Air Quality Planning and Standards (EPA)
OAT	Options Analysis Team (DOE for FFCA mixed waste treatment plans)
OCRWM	Office of Civilian Radioactive Waste Management (DOE)
OD	Outside Diameter
ODBC	Open Database Connectivity (Microsoft)
OEM	Original Equipment Manufacturer
OGI	Oregon Graduate Institute
OIRM	Office of Integrated Risk Management
OLE	Object Linking and Embedding
OMA	Optical Multichannel Analyzer
ORISE	Oak Ridge Institute for Science and Education
ORNL	Oak Ridge National Laboratory
ORP	Oxidation-Reduction Potential
OSC	On-Scene Coordinator (EPA)
OSHA	Occupational Safety and Health Administration
OST	EM Office of Science and Technology
OSTP	Office of Science and Technology Policy (cabinet level advisor to president)
OSW	Office of Solid Waste (EPA)
OSWER	Office of Solid Waste and Emergency Response (EPA)
OTD	Office of Technology Development
OVM	Organic Vapor Meter
PACT	Plasma Arc Centrifugal Treatment
PAHs	Polynuclear Aromatic Hydrocarbons
PAN	Passive / Active Neutron (analysis)
Pb	Lead
PBMS	Performance-Based Measurement System (EPA)
PBS	Project Baseline Summary
PCBs	Polychlorinated Biphenyls
PCDDs	Polychlorinated Dibenzo-p-Dioxins
PCDFs	Polychlorinated Dibenzofurans
PCF	Plasma Centrifugal Furnace
PCI	Peripheral Component Interconnect
PCPs	Pentachlorophenols
PCT	Patent Cooperation Treaty or Product Consistency Test
PDA	Photodiode Array
PDF	Portable Document Format
PDS	Processor-Direct Slot
PEIS	Programmatic Environmental Impact Statement
PEL	Permissible Exposure Limit
PEM	Personal Exposure Monitor
PFA	Plutonium Focus Area
PFN	Prompt Fission Neutron
PFNA	Pulsed Fast Neutron Analysis (being developed by SAIC for INEL)
PFPE	Perfluoropolyether(s)
PGNAA	Prompt Gamma Neutron Activation Analysis
PHP	Plasma Hearth Process
PICs	Products of Incomplete Combustion
PID	Photo Ionization Detector
PINS	Portable Isotopic Neutron Spectroscopy (chemical assay system)
PIXE	Proton Induced X-Ray Emission Spectroscopy
PLC	Programmable Logic Controller
PM	Particulate Matter

PNNL	Pacific Northwest National Laboratory
POHC	Principal Organic Hazardous Constituent
POL	Petroleum, Oil, and Lubricants
POTS	Plain Old Telephone Service
POTW	Publicly Owned Treatment Works (Clean Water Act of 1977)
ppb	parts per billion
PPE	Personal Protective Equipment
PPM	parts per million
PPP	Point-to-Point Protocol
PPPL	Princeton Plasma Physics Laboratory
PRDA	Program Research and Development Announcement
PRP	Potential Responsible Party
PSD	Prevention of Significant Deterioration
PSTP	Proposed Site Treatment Plan (mixed waste)
PTC	Permit to Construct
PTO	Permit to Operate
Pu	Plutonium
PuFA	Plutonium Focus Area
PUREX	Plutonium-Uranium Extraction
PuSPS	Plutonium Stabilization and Packaging System
PVC	polyvinyl chloride
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
QCM	Quartz Crystal Microbalance
QFD	Quality Field Deployment
R	Roentgen
R&D	Research and Development
RA	Remedial Action
RACT	Reasonably Available Control Technology
rad	Radiation Absorbed Dose
RAPIC	Remedial Action Program Information Center (DOE EM)
RCI	Rapid Commercialization Initiative
RCRA	Resource Conservation and Recovery Act --Deals with active hazardous waste sites.
RCRA Metals	Ag, As, Ba, Be, Cd, Cr (hexavalent), Hg, Pb, Ni, Sb, Se, Tl (thallium)
RD	Remedial Design
RDF	Refuse-Derived Fuel
RDT	Regional Decision Team (EPA)
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine – an explosive
rem	Roentgen Equivalent Man
RESL	Radiological and Environmental Sciences Laboratory (Idaho)
RFA	Request for Assistance
RfD	Reference Dose: An estimate (with uncertainty spanning perhaps an order of magnitude) of a daily exposure to the human population (including sensitive subgroups) that is likely to be without appreciable risk of deleterious effects during a lifetime.
RFETS	Rocky Flats Environmental Technology Site
RFH	Radio Frequency Heating
RFI	RCRA Facility Investigation
RH	Remote Handled (Packaged TRU waste whose external surface dose rate exceeds 200 mrem per hour.)
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study (Under CERCLA - processes used to assess site conditions and evaluate alternatives to the extent necessary to select a remedy)
RKIS	Rotary Kiln Incinerator Simulator (Research Triangle Park, NC)

RLS	Rapid Liquid Sampler
RMI	Reactive Metals Inc. (Uranium extrusion site near Ashtabula, Ohio)
RMRS	Rocky Mountain Remedial Services (formed by BNFL and Morrison-Knudsen)
ROA	Research Opportunity Announcement
ROD	Record of Decision: Documents selection of cost-effective Superfund-financed remedy.
ROSEs	Residual Organic Stack Emissions
ROST	Rapid Optical Screening Tool (trademark of LORAL Corp)
RPM	Remedial Project Manager: The project manager for the lead Federal Agency
RREL	Risk Reduction Engineering Laboratory (EPA, Cincinnati)
RSM	Radioactive Scrap Material
RTDF	Remedial Technology Development Forum (a consortium of federal agencies and private companies that promotes the sharing of information and collaboration in environmental technology demonstrations)
RTDP	Robotics Technology Development Program
RTF	Remote Treatment Facility (Idaho Remote-Handled Mixed Waste Treatment facility)
RTG	Radioisotopic Thermoelectric Generator
RTP	Research Triangle Park (North Carolina)
RTR	Real-Time Radiography
SACM	Superfund Accelerated Cleanup Model
SAFER	Streamlined Approach for Environmental Restoration
SAI	Strategic Alignment Initiative (DOE)
SAIC	Scientific Application International Corporation
SAIC STAR	Science and Technology Applications Research facility
SAM	Site Assessment Manager (EPA)
SAP	Sampling and Analysis Plan
SAW	Surface Acoustic Wave
SBIR	Small Business Innovation Research (program)
SCAPS	Site Characterization and Analysis Penetrometer System
SCFA	Subsurface Contaminants Focus Area
SCR	Selective Catalytic Reduction
SDWA	Safe Drinking Water Act
SEA	Science and Engineering Associates, Inc.
SEC	Securities and Exchange Commission
SEG	Scientific Ecology Group, Inc. (wholly owned Westinghouse subsidiary)
SERDP	Strategic Environmental Research and Development Program (Established under the DoD Authorization Bill.)
SGFET	Suspended Gate Field Effect Transistor
SGS	Segmented Gamma Scanner
SH	Shear Horizontal
SH APM	Shear Horizontal Acoustic Plate Mode
Si	Silicon
SI	Site Investigation
SIMON	Semi-Intelligent Mobile Observing Navigator (robotics)
SIMS	Secondary Ion Mass Spectrometry
SITE	Superfund Innovative Technology Evaluation Program (EPA)
SLIP	Serial Line Internet Protocol
SMTP	Simple Mail Transfer Protocol
SNCR	Selective Non-Catalytic Reduction
SNF	Spent Nuclear Fuel
SNL	Sandia National Laboratories
SNM	Special Nuclear Material
SNMP	Simple Network Management Protocol
SOEH	Society for Occupational and Environmental Health
SOP	Standard Operating Procedures
SSEB	Southern States Energy Board

SOW	Statement of Work
SPE	Solid Phase Extraction
SPHEM	Superfund Public Health Evaluation Manual
SRS	Savannah River Site
SRTC	Savannah River Technology Center
SS&C	Sand, slag, and crucible
SSAB	Site Specific Advisory Board
STAR	Science and Technology Applications Research Center (an SAIC facility in Idaho Falls, Idaho)
STEA	Safeguard Technology Evaluation Area (at ANL-W)
STCG	Site Technology Coordination Group
STEA	Safeguard Technology Evaluation Area (at Argonne National Laboratory - W)
STL	Special Technologies Laboratory
STOLS	Surface Towed Ordnance Location System
STP	Site Treatment Plan
STTR	Small Business Technology Transfer (program)
SVE	Soil Vapor Extraction
SWAMI	Stored Waste Autonomous Mobile Inspector (robotics)
SWANA	Solid Waste Association of North America
SWB	Standard Waste Box (for burial)
SWEPP	Stored Waste Examination Pilot Plant (Idaho)
SWIFT	Stored Waveform Inverse Fourier Transform
SWOP	Specification for Web Offset Printers (a standard)
SWOT	Strengths, Weaknesses, Opportunities, Threats (analysis)
SWSA	Solid Waste Storage Area
TACOM	Tank-automotive and Armaments Command (U.S. Army)
TAP	Technology Action Plan
TASR	Technical Area Status Report
TAT	Technical Assistance Team
Tc	Technetium
TCE	Trichloroethylene
TCL	Target Compound List
TCP	Two-Color Pyrometry
TCIRP	Two-Color Infrared Pyrometer (Pyrometry)
TCLP	Toxicity Characteristic Leach Procedure
TCP/IP	Transmission Control Protocol / Internet Protocol
TCV	Total Containment Vessel
2-D	Two-Dimensional
3-D	Three-Dimensional
TDGC/MS	Thermal Desorption Gas Chromatography/Mass Spectrometry
TDL	Tunable Diode Laser
TDR	Time Domain Reflectometry Probe
Te	Tellurium
TEVES	Thermally Enhanced Vapor Extraction System
TFA	Tanks Focus Area
TFR	Thin Film Resonator
TFT	Thin Film Transistor
TGS	Tomographic Gamma Spectrometry (non-destructive assay technique)
Th	Thorium
TIP	Technology Insertion Point
TI	Thallium
TLV	threshold limit value (maximum levels allowed in atmospheres to which healthy industrial workers are exposed)
TNT	Trinitrotoluene
TPH	Total Petroleum Hydrocarbons

TRI	Toxic Release Inventory
TREAT	Transient Test Reactor (Argonne National Laboratory West)
TRP	Technology Reinvestment Project
TRPH	Total Recoverable Petroleum Hydrocarbons
TRT	Technology Resource Team
TRU	Transuranic (TRU waste contains more than 100 nanoCuries/gram of alpha-emitting radionuclides with half-lives greater than 20 years.)
TSCA	Toxic Substances Control Act
TSCAI	Toxic Substances Control Act Incinerator (a rotary kiln incinerator with wet offgas treatment and limited solids/ash handling capability at DOE Oak Ridge site)
TSG	Technology Steering Group
TSS	Total Suspended Solids
TST	Technology Support Team
TTP	Technology Task Plan
TÜV	Technische ~~ German "Technical Inspection Agency"
TVS	Transportable Vitrification System
TWA	Time Weighted Average
TWRS	Tank Waste Remediation System
U	Uranium
ULPA	Ultra Low Penetration Air (filter)
UMTRA	Uranium Mill Tailings Remedial Action
URL	Uniform Resource Locator (World Wide Web)
USDW	Underground Source of Drinking Water
USEC	United States Enrichment Corporation (leases DOE enrichment plants)
USGS	U. S. Geological Survey
UTS	Universal Treatment Standards (EPA for hazardous waste) (40 CFR 268.40)
UV	Ultraviolet
UVB	Unterdruck-Verdampher-Brunnen (an in situ [in well]) groundwater remediation technology that combines air-lift pumping and air stripping to clean aquifers contaminated with VOCs - Roy F. Weston Inc./IEG Technologies Corporation)
UXO	Unexploded Ordnance
VLF	Very Low Frequency
VOC	Volatile Organic Compound
VSL	Vitreous State Laboratory (at Catholic University of America)
WAC	Waste Acceptance Criteria
WAMIS	Waste Assay Measurement Integration System
WAP	Waste Analysis Plan
WDC	Whole Drum Counter
WEDF	Waste Experimental Demonstration Facility (Idaho)
WERF	Waste Experimental Reduction Facility (at INEEL)
WES	Waterways Experiment Station (U.S. Army Corps of Engineers)
WESF	Waste Encapsulation and Storage Facility (Hanford)
WET	California Waste Extraction Test
WETO	Western Environmental Technology Office (MSE for DOE, Butte, MT)
WFO	Work for Others
WGA	Western Governors' Association
WIPP	Waste Isolation Pilot Project
WM	Office of Waste Management
WMATC	Waste Management Automated Technology Catalog
WPI	Waste Policy Institute
WPRR	Work Plan Revision Request
WRAP	(Hanford) Waste Receiving and Processing (facility)
WSD&C	Waste Stream Diagnostics and Control

WSRC	Westinghouse Savannah River Company
WTM	Waste Type Manager
WWW	World Wide Web
XANES	X-ray Absorption Near-Edge Spectroscopy
XAS	X-ray Absorption Spectroscopy
XPS	X-ray Photoelectron Spectroscopy
XRD	X-Ray Diffraction
XRF	X-Ray Fluorescence
Zn	Zinc