

NT1 Formula Quantities  
 NT1 Highway Route Controlled Quantity  
 NT1 Large Quantities  
 NT1 Limited Quantity  
 NT1 Reportable Quantities  
 NT1 Significant Quantities  
 NT1 Small Quantities for Research and Development  
 NT1 Threshold Planning Quantities  
 NT1 Type A Quantities  
 NT1 Type B Quantities

**QUANTITY DISTANCES**

(Doe Order 5480.16)  
 DA October 12, 1990  
 BT1 Measurements  
 NT1 Intraline Separation (Barricaded)  
 NT1 Intraline Separation (Unbarricaded)  
 NT1 Magazine Separation  
 RT Magazines (Buildings)  
 RT Munitions  
 SO Construction  
 SO Firearms  
 DEF (DOE Order 5480.16) Distances required for a specific level of protection for a particular hazard class/division of ammunition and explosives.

**QUARTERLY ENVIRONMENTAL COMPLIANCE REPORTS**

(DOE Order 5440.1D)  
 DA May 15, 1991  
 BT1 Reports  
 RT National Environmental Policy Act  
 RT NEPA Status Reports  
 SO Environmental Management  
 DEF (DOE Order) Quarterly reports prepared by DOE facilities and sent to the appropriate Secretarial Officer(s) and to the Assistant Secretary for Environment, Safety and Health (EH-1) in response to the initiatives in SEN-7A-90. Quarterly environmental compliance reports include the status of the line organization's NEPA compliance activities.

**QUENCH TANKS**

(EPA)  
 DA October 12, 1990  
 BT1 Tanks  
 BT2 Facility Components  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Water-filled tanks used to cool incinerator residues or hot materials during industrial processes.

**QUICK CLAYS**

(USGS)  
 DA October 12, 1990  
 BT1 Soils  
 SO Natural Phenomenon  
 DEF (USGS) Clays that have lost their shear strength. Sometimes also called "sensitive" clays.

OV  
 DA October 12, 1990  
 SEE Quality Verification  
 SO Acronyms

**R**

DA October 12, 1990  
 SEE Roentgen  
 SO Acronyms

**R&D**

DA October 12, 1990  
 SEE Research and Development  
 SO Acronyms

**R&PM**

DA October 12, 1990  
 SEE Regulations and Procedures Manual, PUB-201  
 SO Acronyms

**R&QA**

DA October 12, 1990  
 SEE Reliability and Quality Assurance  
 SO Acronyms

**RA**

DA October 12, 1990  
 SEE Remedial Actions  
 SO Acronyms

**RAAS**

DA October 12, 1990  
 SEE Remedial Action Assessment System  
 SO Acronyms

**RABBITS**

(NFI)  
 DA October 12, 1990  
 RT Reactor Components  
 SO Nuclear Facilities Incident Database  
 SO Radiation  
 DEF (NFI) Slugs irradiated to obtain reaction products (Irradiation Capsules).

**RACT**

DA October 12, 1990  
 SEE Reasonably Available Control Technology  
 SO Acronyms

**RAD**

(EPA; EMER)  
 DA October 12, 1990  
 SEE Radiation Absorbed Dose  
 SO Acronyms  
 DEF (EPA) A unit of absorbed dose replaced by the gray.

**RAD WASTE TREATMENT/STORAGE FACILITY**

(1806 RWT FACILITY)  
 DA December 10, 1990  
 BT1 Facility (DOE FRASE Vocabulary)

BT2 Facilities and Buildings (DOE FRASE Vocabulary)  
 BT3 Facilities  
 SO DOE FRASE VOCABULARY

**RADIAL POWER MONITOR**

DA January 8, 1991  
 SF RPM (Radial Power Monitor)  
 BT1 Monitors  
 BT2 Equipment

**RADIANT ENERGY**

(IAEA)  
 DA October 12, 1990  
 BT1 Energy  
 RT Energy Fluence  
 RT Energy Flux  
 SO Radiation  
 DEF (IAEA) The energy (excluding rest energy) emitted, transferred, or received in the form of radiation.

**RADIATION**

(NIH; IAEA; NFI)  
 DA October 12, 1990  
 NT1 Bremsstrahlung  
 NT1 Ionizing Radiation  
 NT2 Background Radiation  
 NT2 Gamma Radiation  
 NT2 Lethal Dose of Radiation  
 NT2 X-rays  
 NT1 Natural Background Radiation  
 NT1 Non-ionizing Electromagnetic Radiation  
 NT1 Non-Penetrating Radiation  
 NT2 Alpha Rays  
 NT2 Beta Rays  
 NT1 Penetrating Radiation  
 NT1 Radio Frequency Radiation  
 NT1 Ultraviolet Rays  
 RT Accelerators  
 RT Buildup Factor  
 RT Hazards  
 RT Irradiation  
 SO Environmental Protection Agency Glossary  
 DEF Any form of energy propagated as rays, waves, or streams of energetic particles. The term is frequently used in relation to the emission of rays from the nucleus of an atom. (NIH) (1) The emission and propagation of energy through space or through a material medium in the form of waves; for instance, the emission and propagation of electromagnetic waves, or of sound and elastic waves. (2) The energy propagated through a material medium as waves; for example, energy in the form of electromagnetic waves or of elastic waves. The term "radiation" or "radiant energy," when unqualified, usually refers to electromagnetic radiation. Such radiation commonly is classified according to frequency as Hertzian, infrared, visible (light), ultraviolet, x ray, and gamma ray.

(3) By extension, corpuscular emissions such as alpha and beta radiation, or rays of mixed or unknown type, as cosmic radiation.

#### RADIATION ABSORBED DOSE (EPA)

DA October 12, 1990  
SF RAD  
BT1 Radiation Units  
BT2 Units of Measure  
SO Environmental Protection Agency Glossary  
DEF (EPA) A unit of absorbed dose of radiation. One RAD of absorbed dose is equal to .01 joules per kilogram.

#### RADIATION ALARM SYSTEM (2045 RADIATION AS)

DA December 10, 1990  
BT1 Alarms  
BT2 Devices  
BT1 Emergency Systems  
BT2 Systems  
BT1 Systems (DOE FRASE Vocabulary)  
BT2 Systems  
SO DOE FRASE VOCABULARY

#### RADIATION AREAS

DA January 24, 1991  
BT1 Sites/Areas  
NT1 High Radiation Areas  
RT Exposure  
SO Environmental Management  
DEF (CFR) Any area, accessible to individuals, in which there exists radiation at such levels that a major portion of the body could receive in any one (1) hour a dose in excess of five (5) millirems or in any five (5) consecutive days a dose in excess of 100 millirems.

#### RADIATION DETECTORS

DA January 30, 1991  
BT1 Equipment  
NT1 Cooling Water Gamma Monitor  
NT1 Cutie Pies  
NT1 Dose Rate Meters  
NT1 Dosimeters  
NT2 Nuclear Accident Dosimeter  
NT2 Personnel Dosimeters  
NT2 Thermoluminescent Dosimeters  
NT1 External Fission Counter  
NT1 Geiger-Mueller Counters  
NT1 Geiger Counters  
NT1 Internal Fission Counter  
NT1 Internal Gamma Flux Monitor  
NT1 Ionization Chambers  
NT1 Kanne Alarm  
NT1 Low Energy Gamma Monitor  
NT1 Process Water Gamma Monitor  
NT1 Scintillation Counters  
NT1 Vibrating Reed Electrometers  
NT1 Whole Body Counter  
RT Controls

RT Count Rate Meter  
RT Dosimeters

#### RADIATION EMERGENCY ASSISTANCE CENTER/TRAINING SITES (EMER)

DA February 1, 1991  
BT1 Sites/Areas  
SO Emergency Preparedness  
DEF (EMER) Multipurpose medical facilities located in Oak Ridge, Tennessee, prepared to deal with all types of radiation exposure emergencies and provide medical and health physics advice and assistance in radiological emergencies.

#### RADIATION EXPOSURE (1343 RAD EXPOSURE)

DA November 28, 1990  
BT1 Injuries  
RT Absorption (Radiation)  
RT Radiation Exposure Module  
SO DOE FRASE VOCABULARY

#### RADIATION EXPOSURE MODULE (SSDC)

DA January 8, 1991  
SF REM (Radiation Exposure Module)  
BT1 Safety Performance Measurement System  
BT2 Information Systems  
BT3 Security Interests  
BT3 Systems  
RT Radiation Exposure Management  
SO Radiation  
DEF (SSDC) This module of the Safety Performance Measurement System is divided into two databases; a locator file and a database containing the annual dose of all monitored DOE and DOE contractor personnel.

#### RADIATION INDUCED GENETIC EFFECTS (IAEA)

DA October 12, 1990  
SY Genetic Radiation Effects  
SY Radiation Induced Hereditary Effects  
BT1 Stochastic Effects  
BT2 Effects  
SO Radiation  
DEF (IAEA) Changes induced by radiation in the genetic material of both somatic and germinal cells. Loosely used in radiation protection as a synonym for radiation induced hereditary diseases.

#### RADIATION INDUCED HEREDITARY EFFECTS (IAEA)

DA November 20, 1990

SY Genetic Radiation Effects  
SY Radiation Induced Genetic Effects  
BT1 Stochastic Effects  
BT2 Effects  
SO Radiation  
DEF (IAEA) Stochastic effects that occur in the progeny of the exposed 'individual'.

#### RADIATION MONITOR/TECHNICIAN (0383 RAD TECH)

DA November 28, 1990  
BT1 Technicians  
BT2 Professional Personnel  
BT3 Occupations  
BT3 Personnel  
SO DOE FRASE VOCABULARY

#### RADIATION PROTECTION

DA November 7, 1990  
RT Absorption (Radiation)  
RT Accidents  
RT As Low As Reasonably Achievable  
RT Confinement Systems  
RT Containment  
RT Decontamination  
RT Differential Cost Benefit Analysis  
RT Enclosures  
RT Health Hazards  
RT Health Physics  
RT Limits  
RT Radiation Protection Officers  
RT Radiation Safety  
RT Radioactive Contamination  
RT Radiological Monitoring  
RT Reference Man  
RT Remedial Measures  
RT Restricted Areas  
SO Industrial Safety  
SO Radiation

#### RADIATION PROTECTION OFFICERS (IAEA)

DA October 12, 1990  
BT1 Personnel  
RT Radiation Protection  
SO Radiation  
DEF (IAEA) Technically competent persons designated by management to supervise the application of radiation protection regulations and to provide advice on all relevant aspects of radiation protection.

#### RADIATION RECORDS REPOSITORIES (Doe Order 5484.1)

DA October 12, 1990  
BT1 Information Systems  
BT2 Security Interests  
BT2 Systems  
RT System Safety Development Center  
SO Management  
DEF (DOE Order 5484.1) The DOE centralized data base located at the System Safety Development Center, EG&G Idaho, Inc., which contains statistical summaries of occupational radiation exposure

information for activities associated with DOE operations. Individual occupational exposure records are maintained by DOE sites. The Radiation Records Repository also contains summary data submitted for the DOE predecessor agencies, the Atomic Energy Commission, and the Energy Research and Development Administration activities.

**RADIATION SAFETY**

(NCRP)

DA October 12, 1990

BT1 Safety

RT Annual Dose Equivalent Limit

RT Annual Limit on Intake

RT As Low As Reasonably Achievable

RT Cognizant Federal Agencies

RT Competent Authorities

RT Controlled Areas

RT Decontamination

RT Dose Limit

RT Dose Upper Bounds

RT Doses

RT Film Badges

RT Filters (Radiology)

RT Irradiation

RT Protective Barriers

RT Radiation Protection

RT Radiation Shields

RT Radioactive Contamination

RT Radiological Surveys

RT Sealed Sources

RT Supervised Areas

RT Whole Body

RT Working Conditions

SO Radiation

DEF (NCRP) Concerned with recognition, evaluation, and control of risks due to radiation exposure.

**RADIATION SHIELDS**

(IAEA)

DA October 12, 1990

RT Absorption (Radiation)

RT Ionizing Radiation

RT Protective Barriers

RT Radiation Safety

RT Shielding Materials

SO Radiation

DEF (IAEA) Materials interposed between a source of radiation and persons, or equipment or other objects, in order to attenuate the radiation.

**RADIATION STANDARDS**

(EPA)

DA October 12, 1990

BT1 Standards

BT2 Codes, Standards, and Regulations

NT1 Annual Limit on Intake

NT1 As Low As Reasonably Achievable

NT1 As Low As Practicable

SO Environmental Protection Agency Glossary

DEF (EPA) Regulations that set maximum exposure limits for protection of the public from radioactive materials.

**RADIATION SUIT**

(2678 RADIATION SU)

DA January 3, 1991

BT1 Anticontamination Clothing

BT2 Clothing

BT2 Personal Protective Equipment

BT3 Equipment/Parts - Personal Protective (DOE FRASE Vocabulary)

BT4 Equipment

SO DOE FRASE VOCABULARY

**RADIATION UNITS**

DA January 30, 1991

BT1 Units of Measure

NT1 Absorbed Dose

NT1 Becquerel

NT1 Curie

NT1 Dose Equivalents

NT2 Annual Dose Equivalent

NT3 Annual Effective Dose Equivalent

NT4 Cumulative Annual Effective Dose Equivalent

NT2 Collective Dose Equivalent

NT3 Collective Effective Dose Equivalent

NT2 Committed Dose Equivalent

NT3 Committed Effective Dose Equivalent

NT2 Deep Dose Equivalent

NT3 Deep Eye Dose Equivalent

NT2 Effective Dose Equivalent

NT3 Annual Effective Dose Equivalent

NT4 Cumulative Annual Effective Dose Equivalent

NT3 Collective Effective Dose Equivalent

NT3 Committed Effective Dose Equivalent

NT2 Lens of Eye Dose Equivalents

NT2 Shallow Eye Dose Equivalents

NT2 Shallow Dose Equivalents

NT1 Gray

NT1 Microroentgen/hour

NT1 Picocurie

NT1 Picocuries Per Liter

NT1 Picocuries/gram

NT1 Radiation Absorbed Dose

NT1 Relative Biological Effectiveness

NT1 Roentgen Equivalent Man

NT1 Roentgen

NT1 Sievert

NT1 Working Level

NT1 Working Level Month

NT2 Cumulative Working Level Months

RT Dose Limit

DEF Units of measure of radiations, radiation doses, and radioactivity.

**RADIATION WORKERS**

(DOE Order 5480.11)

DA October 12, 1990

BT1 Occupational Workers

BT2 Personnel

NT1 Non-Employee Radiation Workers

SO Industrial Hygiene

DEF (DOE Order 5480.11) Occupational workers whose job assignments require work on, with, or in the proximity of radiation-producing machines or radioactive materials, and/or who have the potential of being routinely exposed above 0.1 rem (0.001 sievert) per year, which is the sum of the annual effective dose equivalent from external irradiation and the committed effective dose equivalent from internal irradiation.

**RADIATION ZONE**

DA January 8, 1991

SF RZ

BT1 Zones

BT2 Sites/Areas

**RADIO**

(2437 RADIO)

DA January 3, 1991

BT1 Equipment/Parts - Electrical (DOE FRASE Vocabulary)

BT2 Equipment

SO DOE FRASE VOCABULARY

**RADIO FREQUENCY RADIATION**

(EPA)

DA November 9, 1990

SY Non-Ionizing Electromagnetic Radiation

BT1 Radiation

DEF (EPA) (1) Radiation that does not change the structure of atoms but does heat tissue and may cause harmful biological effects. (2) Microwaves, radio waves, and low-frequency electromagnetic fields from high-voltage transmission lines.

**RADIO REPEATER STATIONS**

(DOE Order 6430.1A)

DA October 12, 1990

BT1 Facilities

SO Construction

DEF (DOE Order 6430.1A) Unmanned radio transmission facilities, usually located in remote areas.

**RADIOACTIVE ARTICLES**

(HMTA: CFR)

DA May 20, 1991

BT1 Articles

SO Hazardous Materials

DEF (CFR) Radioactive articles are any manufactured instruments and articles such as an instrument, clock, electronic tube or apparatus, or similar instruments and articles having radioactive material as a component part.

**RADIOACTIVE CONTAMINATION**

(NIH; IAEA)

DA October 12, 1990

SY Contamination

BT1 Contamination

BT1 Nature of Property Damage

NT1 Non-fixed Radioactive Contamination

RT Body Content

RT Radiation Protection

RT Radiation Safety

RT Radiological Areas

RT Radioactivity

RT Radiological Monitoring

RT Smear

SO Radiation

DEF (NIH) Deposition of radioactive material in any place where it is not desired, and particularly in any place where its presence may be harmful. The harm may be vitiating the validity of an experiment or a procedure, or in actually being a source of excessive exposure to personnel.

**RADIOACTIVE CONTENTS**

(HMTA; CFR)

DA May 20, 1991

RT Disposal Packages

SO Hazardous Materials

DEF (CFR) Radioactive contents are the radioactive material, together with any contaminated liquids or gases, within the package.

**RADIOACTIVE DECAY**

(NIH)

DA October 12, 1990

NT1 Beta Decay

NT2 Electron Capture

RT Alpha Particles

RT Gamma Radiation

RT Radioactivity

RT Radioactivity Decay Constant

RT Radioactive Half-Life

RT Radioactive Series

SO Radiation

DEF (NIH) Disintegration of the nucleus of an unstable nuclide by the spontaneous emission of charged particles and/or photons.

**RADIOACTIVE EFFLUENTS**

(IAEA)

DA October 12, 1990

BT1 Effluents

BT2 Discharges

BT2 Emissions

BT3 Air Pollutants

BT1 Radioactive Wastes

BT2 Wastes

SO Radiation

DEF (IAEA) Airborne or liquid radioactive materials that are discharged into the environment.

**RADIOACTIVE HALF-LIFE**

(NIH)

DA October 12, 1990

BT1 Half-Life

BT2 Time Designations

RT Radioactive Decay

SO Radiation

DEF (NIH) Time required for a radioactive substance to lose 50 percent of its activity by decay. Each radionuclide has a unique half-life.

**RADIOACTIVE MATERIAL TRANSPORTATION ACCIDENTS (EMER)**

DA February 1, 1991

BT1 Accidents

SO Emergency Preparedness

DEF (EMER) Incidents in which the conveyance transporting a radioactive material package is involved in an accident. Accidents are subsets of radioactive material transportation incidents and include a wide range of severities ranging from minor mishaps to the very severe. This definition is not limited by financial costs, injuries, or fatalities.

**RADIOACTIVE MATERIAL TRANSPORTATION INCIDENTS (EMER)**

DA February 1, 1991

BT1 Incidents

SO Emergency Preparedness

DEF (EMER) Events occurring during the course of transportation of radioactive materials (including loading, transport, unloading, and temporary storage) which result in actual or suspected release of radioactive material. The events may include fire, breakage, spillage, release or suspected release of radioactive material, excessive or suspected radiation, loss of possession, or accident conditions.

**RADIOACTIVE MATERIALS**

(SWDA; RCRA; ESH)

DA October 12, 1990

SY Radioactive Substances

BT1 Materials

NT1 Airborne Radioactive Materials

NT1 Low Specific Activity Materials

NT1 Naturally Occurring Radioactive Material

NT1 Normal Form Radioactive Materials

NT1 Residual Radioactive Materials

NT1 Special Form Radioactive Materials

RT Containment

RT Disposal Packages

RT Hazards

RT Large Quantities

RT Normal Form

RT Picocurie

RT Radioactive Wastes

RT Radioactive Source Terms

RT Release of Property

RT Tailings

RT Type A Quantities

RT Type B Quantities

SO Environmental Management

SO Hazardous Materials

DEF (ESH) Any material or combination of materials that spontaneously emit ionizing radiation. (ESH) There are sundry definitions provided within the regulations pertaining to the various aspects of radioactive materials. The term radioactive materials is defined as any material having a specific activity greater than 0.002 microcuries per gram.

**RADIOACTIVE MIXED WASTES**

(DOE Order 5400.3 and 5480.2)

DA October 12, 1990

SY Mixed Wastes

BT1 Radioactive Wastes

BT2 Wastes

RT Hazardous Wastes

RT Radioactive Wastes

SO Environmental Management

SO Industrial Hygiene

SO Wastes

DEF Radioactive waste that also contains hazardous waste constituents.

**RADIOACTIVE NUCLIDE INTAKE**

(IAEA)

DA October 12, 1990

BT1 Intake

BT2 Measurements

SO Radiation

DEF (IAEA) Amount of radioactive material introduced into the body by inhalation or ingestion, or through the skin. Also, used to denote the process.

**RADIOACTIVE SERIES**

(NCRP)

DA October 12, 1990

RT Equilibrium

RT Radioactive Decay

SO Radiation

DEF (NCRP) A succession of nuclides, each of which transforms by radioactive decay into the next until a stable nuclide results. The first member is called the parent and the subsequent members are called progeny, daughters, or decay products.

**RADIOACTIVE SOURCE TERMS**

(IAEA)

DA October 12, 1990

BT1 Vocabulary

RT Fission Products

RT Radioactive Materials

RT Risk Assessment

SO Radiation

DEF (IAEA) Expressions used to denote information about the actual or

potential release of radioactive material from a given source, which may include a specification of the composition, the amount, the rate, and the mode of the release.

Any waste that contains radioactive material in concentrations that exceed those listed in 10 CFR Part 20, Appendix B, Table II Column 2. (ESH) Solid, liquid, or gaseous material that contains radionuclides regulated under the Atomic Energy Act of 1954, as amended, and of negligible economic value considering costs of recovery.

of the established limit for exposure to ionizing radiation.

**RADIOACTIVE SUBSTANCES**

- (EPA)
- DA October 12, 1990
- SY Radioactive Materials
- BT1 Materials
- SO Environmental Protection Agency Glossary
- DEF (EPA) Substances that emit radiation.

**RADIOACTIVE WASTE MANAGEMENT**

- DA November 7, 1990
- BT1 Waste Management
- BT2 Processes
- RT Burial Grounds
- RT General Environment
- RT Geologic Repositories
- RT Radioactive Wastes
- SO Radiation
- SO Wastes
- DEF (USC) The systematic administration of activities that provide for the collection, storage, transportation, transfer, processing, treatment, and disposal of radioactive wastes.

**RADIOACTIVE WASTES**

- (DOE Order 5480.2; SDWA; SWDA; CFR; ESH)
- DA October 12, 1990
- BT1 Wastes
- NT1 High-Level Radioactive Wastes
- NT1 Low Level Radioactive Wastes
- NT1 Low Level Wastes
- NT1 Radioactive Mixed Wastes
- NT1 Radioactive Effluents
- NT1 Transuranic Wastes (TRU Waste)
- NT2 Contact-Handled Transuranic Wastes
- NT2 Remote-Handled Transuranic Wastes
- NT1 Transuranic Radioactive Wastes
- NT1 TRU Wastes
- RT General Environment
- RT Near Surface Disposal Facilities
- RT Radioactive Waste Management
- RT Radioactive Materials
- RT Radioactive Mixed Wastes
- SO Environmental Management
- SO Industrial Hygiene
- SO Wastes
- SO Water Pollution
- DEF Solid or fluid materials of no value containing radioactivity; discarded items such as clothing, containers, equipment, rubble, residues, or soils contaminated with radioactivity; or soils, rubble, equipment, or other items containing induced radioactivity such that the levels exceed safe limits for unconditional release.

**RADIOACTIVITY**

- (DOE Order 5400.5; EMER)
- DA October 12, 1990
- SY Activity (Nuclear)
- NT1 Induced Radioactivity
- RT Becquerel
- RT Curie
- RT Gross Alpha Particle Activity
- RT Gross Beta Particle Activity
- RT Radioactive Contamination
- RT Radioactive Decay
- RT Specific Activity
- SO Emergency Preparedness
- SO Environmental Management
- SO Radiation
- SO Wastes
- DEF (DOE Order 5400.5) The property or characteristic of radioactive material to spontaneously "disintegrate" with the emission of energy in the form of radiation. The unit of radioactivity is the curie (or becquerel).

**RADIOACTIVITY DECAY CONSTANT**

- (IAEA)
- DA October 12, 1990
- BT1 Measurements
- RT Radionuclides
- RT Radioactive Decay
- SO Radiation
- DEF (IAEA) For a radioactive nuclide in a particular energy state, the quotient of dP by dt, where dP is the probability of a given nucleus undergoing a spontaneous nuclear transition from that energy state in the time interval dt.

**RADIOBIOLOGY**

- (EPA)
- DA October 12, 1990
- SO Environmental Protection Agency Glossary
- DEF (EPA) The study radiation effects on living things.

**RADIOLOGICAL ACCIDENTS**

- (EMER)
- DA February 1, 1991
- BT1 Accidents
- SO Emergency Preparedness
- DEF (EMER) Loss of control of radioactive materials which present a potential hazard to personnel, public health, property, or environment, or the exceeding

**RADIOLOGICAL AREAS**

- (Doe Order 5480.11)
- DA October 12, 1990
- BT1 Sites/Areas
- RT Radioactive Contamination
- SO Environmental Management
- SO Industrial Hygiene
- DEF (DOE Order 5480.11) Any areas within a controlled area where an individual can receive a dose equivalent greater than 5 mrem (50 microsieverts) in 1 hour at 30 cm from the radiation source or any surface through which the radiation penetrates, or where airborne radioactive concentrations greater than 1/10 of the derived air concentrations are present (or are likely to be), or where surface contamination levels greater than those specified in Attachment 2 of this Order are present.

**RADIOLOGICAL ASSISTANCE PROGRAMS**

- (EMER)
- DA February 1, 1991
- BT1 Programs
- SO Emergency Preparedness
- DEF (EMER) Department of Energy programs which provide for radiological assistance to federal and state agencies and private entities in the event of an incident involving radioactive materials.

**RADIOLOGICAL ASSISTANCE TEAMS**

- (EMER)
- DA February 1, 1991
- BT1 Response Teams
- BT2 Teams
- BT3 Administrative Organizations
- BT4 Organizations
- SO Emergency Preparedness
- DEF (EMER) Teams dispatched to the site of a radiological incident by the U.S. Department of Energy (DOE) regional office responding to a radiological incident. Radiological Assistance Teams are located at DOE operations offices and national laboratories and most area offices and associated contractor sites.

**RADIOLOGICAL MONITORING**

- (NIH)
- DA October 12, 1990
- BT1 Monitoring
- BT2 Activities
- NT1 Smear
- RT Aerial Measuring Systems
- RT Autoradiographs
- RT Radiation Protection
- RT Radioactive Contamination

*SO* Radiation  
*DEF* (NIH) Periodic or continuous determination of the amount of ionizing radiation or radioactive contamination present in an occupied region as a safety measure for purposes of health protection. Area Monitoring: Routine monitoring of the level of radiation or of radioactive contamination of any particular area, building, room, or equipment. Personnel Monitoring: Monitoring any part of an individual, his breath, excretions, or any part of his clothing.

**RADIOLOGICAL RELEASES**  
 (EMER)

*DA* February 1, 1991  
*BT1* Releases  
*SO* Emergency Preparedness  
*DEF* (EMER) Incidents in which radiological material (gas, liquid, and/or solid) are discharged into the biosphere in an unplanned manner.

**RADIOLOGICAL SURVEYS**  
 (NIH)

*DA* October 12, 1990  
*BT1* Surveys  
*RT* Radiation Safety  
*SO* Radiation  
*DEF* (NIH) Evaluation of the radiation hazards incident to the production, use of, existence of radioactive materials or other sources of radiation under a specific set of conditions. Such evaluation customarily includes a physical survey of the disposition of materials and equipment, measurements or estimates of the levels of radiation that may be involved, and a sufficient knowledge of processes using or affecting these materials to predict hazards resulting from expected or possible changes in materials or equipment.

**RADIOLOGICAL TRANSPORTATION INCIDENTS**  
 (EMER)

*DA* February 1, 1991  
*BT1* Incidents  
*SO* Emergency Preparedness  
*DEF* (EMER) Incidents that involve a transportation vehicle or shipment containing radioactive materials. (See Transportation Incidents.)

**RADIONUCLIDE BARRIERS (NATURAL OR ENGINEERED)**  
 (IAEA)

*DA* October 12, 1990  
*BT1* Barriers  
*NT1* Bulkheads

*RT* Radionuclides  
*SO* Radiation  
*DEF* (IAEA) Structures that delay or prevent radionuclide migration from the source material.

**RADIONUCLIDES**

(CAA; CFR: NIH; EMER)  
*DA* October 12, 1990  
*BT1* CERCLA Hazardous Substances  
     *BT2* Hazardous Substances  
*BT1* Nuclides  
*NT1* Alpha Decay Radioisotopes  
     *NT2* Radium 226  
     *NT2* Radon 222  
     *NT2* Thorium 230  
     *NT2* Uranium 238  
*NT1* Beta Decay Radioisotopes  
     *NT2* Beta-Minus Decay Radioisotopes  
         *NT3* Antimony 125  
         *NT3* Cerium 144  
         *NT3* Cerium 141  
         *NT3* Cesium 137  
         *NT3* Cesium 134  
         *NT3* Cobalt 60  
         *NT3* Cobalt 58  
         *NT3* Iodine 131  
         *NT3* Radium 228  
         *NT3* Ruthenium 103  
         *NT3* Strontium 90  
         *NT3* Tellurium 132  
         *NT3* Thorium 232  
         *NT3* Tritium  
         *NT3* Zinc 65  
         *NT3* Zirconium 95  
*NT1* Bone Seekers  
*NT1* Days Living Radioisotopes  
     *NT2* Beryllium 7  
     *NT2* Cerium 144  
     *NT2* Cerium 141  
     *NT2* Cesium 137  
     *NT2* Cobalt 58  
     *NT2* Iodine 131  
     *NT2* Manganese 54  
     *NT2* Radon 222  
     *NT2* Selenium 75  
     *NT2* Zinc 65  
     *NT2* Zirconium 95  
*NT1* Delayed Neutron Precursors  
*NT1* Delayed Proton Precursors  
*NT1* Element 104 Isotopes  
*NT1* Element 105 Isotopes  
*NT1* Element 106 Isotopes  
*NT1* Element 107 Isotopes  
*NT1* Element 108 Isotopes  
*NT1* Element 109 Isotopes  
*NT1* Heavy Ion Decay Radioisotopes  
*NT1* Hours Living Radioisotopes  
     *NT2* Cesium 134  
     *NT2* Cobalt 58  
*NT1* Internal Conversion Radioisotopes  
     *NT2* Cesium 134  
     *NT2* Cobalt 60  
     *NT2* Cobalt 58  
*NT1* Isomeric Transition Isotopes  
     *NT2* Cesium 134  
     *NT2* Cobalt 60  
     *NT2* Cobalt 58  
*NT1* Microsec Living Radioisotopes  
*NT1* Millisec Living Radioisotopes

*NT1* Minutes Living Radioisotopes  
     *NT2* Cobalt 60  
     *NT2* Thorium 232  
*NT1* Nanosec Living Radioisotopes  
*NT1* Neutron-Deficient Isotopes  
*NT1* Neutron-Rich Isotopes  
*NT1* Proton Decay Radioisotopes  
*NT1* Radon Progeny  
     *NT2* Radon 222  
*NT1* Seconds Living Radioisotopes  
*NT1* Transuranic Radionuclides  
*NT1* Years Living Radioisotopes  
     *NT2* Antimony 125  
     *NT2* Cesium 134  
     *NT2* Cobalt 60  
     *NT2* Radium 226  
     *NT2* Radium 228  
     *NT2* Ruthenium 103  
     *NT2* Strontium 90  
     *NT2* Thorium 230  
     *NT2* Tritium  
     *NT2* Uranium 238  
*RT* Body Content  
*RT* Carrier Free  
*RT* Environmental Detection Limits  
*RT* Radionuclide Barriers (Natural or Engineered)  
*RT* Radioactivity Decay Constant  
*RT* Transuranic Elements  
*RT* Transuranic Nuclides  
*SO* Air Pollution  
*SO* Emergency Preparedness  
*SO* Environmental Management  
*SO* Environmental Protection Agency Glossary  
*SO* Radiation  
*DEF* (EMER) Radioactive elements characterized according to their atomic mass and atomic number which can be man-made or naturally occurring. Radioisotopes can have a long life as soil or water pollutants, and are believed to have potentially mutagenic effects on the human body. (NIH) Nuclides with unstable ratios of neutrons to protons placing the nucleus in a state of stress. In an attempt to reorganize to a more stable state, they may undergo various types of rearrangement that involve the release of radiation.

**RADIOTOXICITY**  
 (NIH)

*DA* October 12, 1990  
*BT1* Toxicity  
*SO* Radiation  
*DEF* (NIH) Term referring to the potential of an isotope to cause damage to living tissue by absorption of energy from the disintegration of the radioactive material introduced into the body.

**RADIUM 226**  
 (EDB)

*DA* March 29, 1991  
*BT1* Alpha Decay Radioisotopes

BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Nuclides  
 BT1 Years Living Radioisotopes  
 BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Nuclides  
 RT Uranium Mill Tailings  
 SO Radiation

**RADIUM 228**

(EDB)  
 DA March 29, 1991  
 BT1 Beta-Minus Decay Radioisotopes  
 BT2 Beta Decay Radioisotopes  
 BT3 Radionuclides  
 BT4 CERCLA Hazardous Substances  
 BT5 Hazardous Substances  
 BT4 Nuclides  
 BT1 Years Living Radioisotopes  
 BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Nuclides  
 RT Uranium Mill Tailings  
 SO Radiation

**RADON**

(TSCA; EPA)  
 DA October 12, 1990  
 RT Radon Flux  
 RT Radon Progeny  
 RT Radon Decay Products  
 RT Uranium Mill Tailings  
 SO Environmental Protection Agency Glossary  
 SO Hazardous Materials  
 SO Radiation  
 DEF (EPA) A colorless naturally occurring, radioactive, inert gaseous element formed by radioactive decay of radium atoms in soil or rocks. The radioactive gaseous element and its short-lived decay products produced by the disintegration of the element radium occurring in air, water, soil, or other media.

**RADON 222**

(EDB)  
 DA March 29, 1991  
 BT1 Alpha Decay Radioisotopes  
 BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Nuclides  
 BT1 Days Living Radioisotopes  
 BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Nuclides  
 BT1 Radon Progeny  
 BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances

BT3 Nuclides  
 SO Radiation

**RADON DECAY PRODUCTS**

(EPA)  
 DA October 12, 1990  
 SY Radon Progeny  
 RT Radon  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A term used to refer collectively to the immediate products of the radon decay chain. These include Po-218, Pb-214, Bi-214, and Po-214, which have an average combined half life of about 30 minutes.

**RADON FLUX**

(NCRP)  
 DA October 12, 1990  
 RT Radon  
 SO Radiation  
 DEF (NCRP) The number of radon atoms passing through a unit cross-sectional area per unit time.

**RADON PROGENY**

(NCRP)  
 DA October 12, 1990  
 SY Radon Decay Products  
 BT1 Radionuclides  
 BT2 CERCLA Hazardous Substances  
 BT3 Hazardous Substances  
 BT2 Nuclides  
 NT1 Radon 222  
 RT Radon  
 RT Unattached Fractions  
 RT Working Level  
 RT Working Level Month  
 SO Radiation  
 DEF (NCRP) The short-lived radionuclides formed as a result of decay of radon. For radon-222, they consist of polonium-218 (RaA), Lead-214 (RaB), bismuth-214 (RaC) and polonium-214 (RaC'). Combined numbers of these radionuclides are reduced by one-half approximately every thirty minutes.

**RAFFINATE**

(NCRP)  
 DA October 12, 1990  
 BT1 Fluids  
 SO Radiation  
 DEF (NCRP) Fluid from the purification step in a mill, depleted in the mineral of interest relative to the fluid entering the purification process. The raffinate may be reused in the process stream or discarded.

**RAIL FREIGHT CARS**

DA June 3, 1991  
 RT Freight Containers  
 RT Placarded Cars

SO Hazardous Materials  
 DEF Cars designed to carry freight or non-passenger personnel by rail, and include a box car, flat car, gondola car, tank car, and occupied car.

**RAINCOATS**

DA October 12, 1990  
 BT1 Control Rod(s)  
 BT2 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)  
 BT3 Equipment  
 BT3 Reactor Components  
 SO Nuclear Facilities Incident Database  
 SO Radiation  
 DEF (NFI) Control rod sheaths, broken off during disassembly, located between rods and cans.

**RAKE(S)**

(3050 RAKE)  
 DA January 3, 1991  
 BT1 Tools - Manual  
 BT2 Tools (DOE FRASE Vocabulary)  
 BT3 Equipment  
 SO DOE FRASE VOCABULARY

**RAM**

DA October 12, 1990  
 SEE Reliability, Availability, and Maintainability  
 SO Acronyms

**RAM(S)**

(2765 RAM)  
 DA January 3, 1991  
 BT1 Instrument(s)  
 BT2 Equipment/Parts - Instrumentation/Measuring (DOE FRASE Voc.)  
 BT3 Equipment  
 SO DOE FRASE VOCABULARY

**RANGE (STATISTICAL)**

(SSDC)  
 DA October 12, 1990  
 RT Distribution  
 SO System Safety Development Center Glossary  
 DEF (SSDC) A measurement of the difference between two observations. The entire range is the difference between the smallest and largest value. We also speak of the inner two quartile range which includes 50% of all values (excluding the smallest 25% and the largest 25%).

**RANGE MASTERS**

(Doe Order 5480.16)  
 DA October 12, 1990  
 BT1 Personnel  
 RT Firearms Ranges  
 RT Range Safety Officers  
 SO Firearms  
 DEF (DOE Order 5480.16) Individuals responsible for daily range

operations; the range master ensures that the range is always safe and that only qualified firearms instructors conduct training activities.

**RANGE SAFETY OFFICERS**

(Doe Order 5480.16)  
DA October 12, 1990  
BT1 Personnel  
RT Firearms Ranges  
RT Range Masters  
SO Firearms  
DEF (DOE Order 5480.16) The designated and specifically trained individuals responsible for safety at a live firing range.

**RANGES (FIREARMS)**

DA April 19, 1991  
SY Firearms Ranges  
BT1 Sites/Areas  
SO Firearms

**RAP**

DA October 12, 1990  
SEE Remedial Action Program  
SO Acronyms

**RASPS**

(EPA)  
DA October 12, 1990  
BT1 Equipment  
SO Environmental Protection Agency Glossary  
DEF (EPA) A machine that grinds waste into a manageable material and helps prevent odor.

**RATCHET WRENCH(S)**

(3051 RATCHET WREN)  
DA January 3, 1991  
BT1 Wrench(s)  
BT2 Tools (DOE FRASE Vocabulary)  
BT3 Equipment  
SO DOE FRASE VOCABULARY

**RATES**

DA February 25, 1991  
NT1 Absorbed Dose Rate  
NT1 Biological Clearance Rate  
NT1 Collective Effective Dose Equivalent Rate  
NT1 Contact Rate  
NT1 Converter Arsenic Charging Rate  
NT1 Energy Fluence Rate  
NT1 Exposure Rate  
NT1 Incidence Rate, Total Recordable Cases (TRC)  
NT1 Incidence Rate, Lost Workday Cases (LWC)  
NT1 Incidence Rate, WDL  
NT1 Incidence Rate, WDLR  
NT1 Incidence Rate, LWD (Lost Work Days)  
NT1 Lowest Achievable Emission Rate  
RT Measurements  
RT Units of Measure

**RATIONAL METHOD**

(DOE Order 6430.1A)  
DA October 12, 1990  
SO Construction  
DEF (DOE Order 6430.1A) As applied to drainage design, the expression of peak discharge as equal to the product of rainfall intensity, drainage area and a runoff coefficient depending on drainage basin characteristics.

**RATIOS**

DA February 25, 1991  
NT1 Buildup Factor  
NT1 Capacity Factor  
NT1 Capture Efficiency  
NT1 Critical Temperature Ratio  
NT1 Decontamination Factor  
NT1 Dilution Ratio  
NT1 Emission Factor  
NT2 Theoretical Arsenic Emissions Factor  
NT1 Gas Volume Ratio  
NT1 Hazard Quotient  
NT1 Loading  
NT2 Grain Loading  
NT2 Particulate Loading  
NT1 Loss Ratio  
NT1 Peak-To-Peak Ratio  
NT1 Reinforcement Ratio  
NT1 Roof-Top-Ratio  
NT1 Story Drift Ratio  
RT Measurements  
RT Units of Measure

**RAW DATA**

(TSCA;CFR)  
DA October 19, 1990  
RT Field Sampling Plans  
SO Environmental Management  
SO Hazardous Materials  
DEF Any laboratory worksheets, records, memoranda, notes, or exact copies thereof, that are the result of original observations and activities of a study and are necessary for the reconstruction and evaluation of the report of that study. In the event that exact transcripts of raw data have been prepared (e.g., tapes that have been transcribed verbatim, dated, and verified accurate by signature), the exact copy or exact transcript may be substituted for the original source as raw data. "Raw data" may include photographs, microfilm or microfiche copies, computer printouts, magnetic media, including dictated observations, and recorded data from automated instruments.

**RAW SEWAGE**

(EPA)  
DA October 12, 1990  
BT1 Sewage  
BT2 Municipal Solid Wastes

BT3 Solid Wastes  
BT4 Wastes  
SO Environmental Protection Agency Glossary  
DEF (EPA) Untreated wastewater.

**RAW WATER INTAKE STRUCTURE**

DA January 8, 1991  
SF RWIS  
BT1 Structures (DOE FRASE Vocabulary)

**RAW WATER SYSTEM**

(2046 RAW WATER SY)  
DA December 10, 1990  
BT1 Systems (DOE FRASE Vocabulary)  
BT2 Systems  
RT Drinking Water System  
SO DOE FRASE VOCABULARY

**RAYLEIGH SEISMIC WAVES**

(USGS)  
DA October 12, 1990  
RT Earthquake Magnitude  
RT Love Seismic Waves  
RT Surface Wave Magnitude  
SO Natural Phenomenon  
DEF (USGS) Types of surface waves having a retrograde, elliptical motion at the free surface. They, along with Love waves, mainly cause low-frequency vibrations, which are more likely to make tall buildings vibrate.

**RAYTHEON SERVICES NEVADA**

DA January 11, 1991  
BT1 Companies  
BT2 Commercial Organizations  
BT3 Organizations  
BT1 DOE Contractors  
BT2 Potentially Responsible Parties  
RT Nevada Test Site  
RT Nevada Operations Office

**RAZOR(S)**

(3052 RAZOR)  
DA January 3, 1991  
BT1 Tools - Manual  
BT2 Tools (DOE FRASE Vocabulary)  
BT3 Equipment  
RT Abrasion  
SO DOE FRASE VOCABULARY

**RBC**

DA October 12, 1990  
SEE Reactor Building Cooling  
SO Acronyms

**RBCCW**

DA October 12, 1990  
SEE Reactor Building Closed Cooling Water  
SO Acronyms

**RBCLCW**

DA October 12, 1990

*SEE* Reactor Building Closed Loop Cooling Water  
*SO* Acronyms

**RBCS**

DA October 12, 1990  
*SEE* Reactor Building Fan Coolers  
*SO* Acronyms

**RBE**

DA October 12, 1990  
*SEE* Relative Biological Effectiveness  
*SO* Acronyms

**RBS**

DA October 12, 1990  
*SEE* Reactor Building Spray  
*SO* Acronyms

**RBSI**

DA October 12, 1990  
*SEE* Reactor Building Spray Injection  
*SO* Acronyms

**RBSR**

DA October 12, 1990  
*SEE* Reactor Building Spray Recirculation  
*SO* Acronyms

**RBSVS**

DA October 12, 1990  
*SEE* Reactor Building Standby Ventilation System  
*SO* Acronyms

**RCB**

DA October 12, 1990  
*SEE* Retrieval Containment Building  
*SO* Acronyms

**RCIC**

DA October 12, 1990  
*SEE* Reactor Core Isolation Cooling  
*SO* Acronyms

**RCM**

DA October 12, 1990  
*SEE* Reliability-Centered Maintenance  
*SO* Acronyms

**RCP**

DA October 12, 1990  
*SEE* Reactor Coolant Pump  
*SO* Acronyms

**RCRA**

(SDWA; RCRA; CFR)  
 DA October 12, 1990  
*SEE* Resource Conservation and Recovery Act  
*SO* Acronyms  
 DEF (RCRA) To promote the protection of health and the environment and to conserve valuable material and energy resources.

**RCRA CORRECTIVE MEASURES STUDY**

DA January 8, 1991  
 SF *CMS*  
 BT1 Studies

**RCRA FACILITY ASSESSMENT**

DA January 8, 1991  
 SF *RFA*  
 BT1 Assessments  
 BT2 Administrative Processes  
 BT3 Processes

**RCRA REMEDIAL INVESTIGATION**

DA January 8, 1991  
 SF *RFI*  
 BT1 Remedial Investigations  
 BT2 Investigations  
 BT3 Administrative Processes  
 BT4 Processes

**RCS**

DA October 12, 1990  
*SEE* Reactor Coolant System  
*SO* Acronyms

**RCSI**

DA October 12, 1990  
*SEE* Reactor Coolant System Integrity  
*SO* Acronyms

**RCW**

DA October 12, 1990  
*SEE* Recirculated Cooling Water  
*SO* Acronyms

**RD**

DA October 12, 1990  
*SEE* Remedial Design  
*SO* Acronyms

**RDDT&E**

DA October 12, 1990  
*SEE* Research, Development, Demonstration, Testing and Evaluation  
*SO* Acronyms

**rDNA**

DA October 12, 1990  
*SEE* Recombinant DNA  
*SO* Acronyms

**RE-REFINED OIL**

(RCRA; ANL)  
 DA May 24, 1991  
 BT1 Oils  
 SO Wastes  
 DEF (RCRA Sec. 1004(39)) Used oil from which the physical and chemical contaminants acquired through previous use have been removed through a refining process.

**RE-REFINED OILS**

(SWDA; RCRA)

DA October 12, 1990  
 BT1 Recycled Oils  
 BT2 Used Oils  
 BT3 Oils  
 RT Lubricating Oils  
 SO Wastes  
 DEF Used oils from which the physical and chemical contaminants acquired through previous use have been removed through a refining process.

**REACTIVE METALS, INC.**

DA January 8, 1991  
 SF *RM/*  
 BT1 Companies  
 BT2 Commercial Organizations  
 BT3 Organizations

**REACTOR(S)**

(2589 REACTOR)  
 DA January 3, 1991  
 BT1 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)  
 BT2 Equipment  
 BT2 Reactor Components  
 RT Core(s)  
 RT Pressure Vessel(s)  
 SO DOE FRASE VOCABULARY

**REACTOR AND REACTOR MATERIAL TECHNOLOGY**

DA January 8, 1991  
 SF *RRMT*

**REACTOR BUILDING CLOSED COOLING WATER**

DA January 8, 1991  
 SF *RBCCW*  
 RT Reactor Facilities

**REACTOR BUILDING CLOSED LOOP COOLING WATER**

DA January 8, 1991  
 SF *RBCLCW*  
 RT Reactor Facilities

**REACTOR BUILDING COOLING**

DA January 8, 1991  
 SF *RBC*  
 RT Reactor Facilities

**REACTOR BUILDING FAN COOLERS**

DA January 8, 1991  
 SF *RBCS*  
 RT Reactor Facilities

**REACTOR BUILDING SPRAY**

DA January 8, 1991  
 SF *RBS*  
 RT Reactor Facilities

**REACTOR BUILDING SPRAY INJECTION**

DA January 8, 1991  
 SF *RBSI*  
 RT Reactor Facilities

**REACTOR BUILDING SPRAY RECIRCULATION**

DA January 8, 1991  
SF *RBSR*  
RT Reactor Facilities

**REACTOR BUILDING STANDBY VENTILATION SYSTEM**

DA January 8, 1991  
SF *RBSVS*  
BT1 Ventilation System  
BT2 Systems (DOE FRASE Vocabulary)  
BT3 Systems  
RT Reactor Facilities

**REACTOR COMPONENTS**

DA February 12, 1991  
NT1 Control Rod Drive Control System  
NT2 Control Rod Drive Assembly  
NT2 Control Rod Drive  
NT3 Pistol Grip Switches  
NT2 Control Rod Drive Mechanism  
NT1 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)  
NT2 Birdcage  
NT2 Burial Box(s)  
NT2 Cold Trap  
NT2 Control Panel(s)  
NT2 Control Rod Drive Assembly  
NT2 Control Rod(s)  
NT3 Gangs  
NT3 Raincoats  
NT2 Coolant Return Pump  
NT2 Core(s)  
NT2 Exhaust Stack  
NT2 Flux Channel(s)  
NT2 Fuel Element(s)  
NT3 Fuel Plate  
NT4 Cladding  
NT4 Plutonium Fuel Plate(s)  
NT3 Fuel Rod(s)  
NT3 Piles (Nuclear)  
NT2 Fuel Handling Equipment  
NT3 Fuel Canister(s)  
NT3 Fuel Drawer(s)  
NT2 Fuel Tool(s)  
NT2 Glove Box  
NT2 Heat Exchanger  
NT3 Low Pressure Recirculation System Heat Exchanger  
NT3 Shutdown Heat Exchanger  
NT2 Hepa Filter  
NT2 Ion Exchange Column  
NT2 Ion Pump  
NT2 Log N Channel  
NT2 Manipulator  
NT3 Electromechanical Manipulator(s)  
NT2 Neutron Source  
NT2 Neutron(s)  
NT2 Plutonium Process Hood  
NT2 Plutonium Recovery Process  
NT2 Pressure Vessel Part  
NT2 Pressure Vessel(s)  
NT2 Reactor Fuel  
NT2 Reactor Waste  
NT2 Reactor(s)  
NT2 Rod Drive  
NT2 Shield Plug(s)  
NT2 Sodium Scrubber(s)

NT2 Test Train  
NT2 Transient Operation  
NT2 Transient Test  
NT1 Forests (Reactor)  
NT1 Reactor Fuel  
NT1 Reactor Coolant Pump  
NT1 Reactor Coolant System  
NT2 Emergency Spray Water System  
NT1 Reactor Pressure Vessel  
NT1 Reactor Vessel  
NT1 Shaft Guides  
NT1 Special Isotope Separator  
NT1 Spiders  
RT Rabbits  
RT Reactor Refueling Activity  
RT Reactor Protection System  
RT Reactors  
RT Targets

**REACTOR COOLANT PUMP**

DA January 8, 1991  
SF *RCP*  
BT1 Pump(s)  
BT2 Machines (DOE FRASE Vocabulary)  
BT3 Equipment  
BT1 Reactor Components

**REACTOR COOLANT SYSTEM**

DA January 8, 1991  
SF *RCS*  
BT1 Reactor Components  
BT1 Systems  
NT1 Emergency Spray Water System  
RT Reactor Core Isolation Cooling  
RT Reactor Coolant System Integrity  
RT Reactor Heat Removal  
DEF (NRC Glossary of Terms: Nuclear Power Radiation) The cooling system used to remove energy from the reactor core and transfer that energy either directly or indirectly to the steam turbine.

**REACTOR COOLANT SYSTEM INTEGRITY**

DA January 8, 1991  
SF *RCSI*  
RT Reactor Coolant System

**REACTOR CORE ISOLATION COOLING**

DA January 8, 1991  
SF *RCIC*  
RT Reactor Coolant System

**REACTOR ELECTRIC DISTRIBUTION SYSTEM**

DA January 8, 1991  
SF *REDS*  
BT1 Systems

**REACTOR FACILITIES**

(DOE Order 5480.6; EMER)  
DA October 12, 1990  
BT1 Nuclear Facilities  
BT2 Facilities  
NT1 Low Power Reactor Facility  
NT1 Production Reactor Facility  
NT1 Test Reactor Facility

RT Nuclear Facilities  
RT Reactor Building Cooling  
RT Reactor Building Closed Cooling Water  
RT Reactor Building Closed Loop Cooling Water  
RT Reactor Building Fan Coolers  
RT Reactor Building Spray  
RT Reactor Building Spray Injection  
RT Reactor Building Spray Recirculation  
RT Reactor Building Standby Ventilation System  
RT Reactor Works Engineering  
RT Reactors  
RT Test Reactor Area  
SO Emergency Preparedness  
SO Industrial Safety  
DEF (DOE Order 5480.6) Unless modified by words, such as containment, vessel, or core, means the entire reactor facility including housing, equipment, and associated areas devoted to operation and maintenance of one or more reactor cores.

**REACTOR FUEL**

(2587 REACTOR FUEL)  
DA January 3, 1991  
BT1 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)  
BT2 Equipment  
BT2 Reactor Components  
BT1 Fuels  
BT1 Reactor Components  
RT Buckled Zones  
RT Core Melt Accidents  
RT Fuel Element(s)  
SO DOE FRASE VOCABULARY

**REACTOR HEAT REMOVAL**

DA January 8, 1991  
SF *REHR*  
RT Reactor Coolant System

**REACTOR MATERIALS**

DA May 24, 1991  
BT1 Materials  
NT1 Nuclear Poisons  
SO Radiation

**REACTOR MATERIALS CONTROL GROUP**

DA January 8, 1991  
SF *RMCG*  
BT1 Groups  
BT2 Administrative Organizations  
BT3 Organizations

**REACTOR OPENING LOSS**

(CAA; CFR)  
DA October 12, 1990  
BT1 Emissions  
BT2 Air Pollutants  
BT1 Losses  
RT Vinyl Chloride  
SO Air Pollution  
DEF The emissions of vinyl chloride

occurring when a reactor is vented to the atmosphere for any purpose other than an emergency relief discharge as defined in 40 CFR 61.65(a).

**REACTOR OPERATIONS**

(Doe Order 5480.6)

DA October 12, 1990

BT1 Operations

BT2 Activities

RT Alternate Removal Systems

RT Backup Systems

RT Computer Inoperative Limits

RT Reactor Operator

RT Reactors

SO Industrial Safety

DEF (DOE Order 5480.6) All those activities or functions involved in operating and using a reactor which, for purposes of this Order, begin with the initial loading of fuel in the reactor vessel and end with the removal of fuel to officially decommission or place the reactor in a standby status.

**REACTOR OPERATOR**

(Doe Order 5480.6)

DA October 12, 1990

SF *RO* (Reactor Operator)

BT1 Personnel

NT1 Senior Reactor Operator

RT Reactor Operations

SO Industrial Safety

DEF (DOE Order 5480.6) An individual certified by contractor management to operate (manipulate the controls of) a DOE-owned reactor.

**REACTOR PRESSURE VESSEL**

DA January 8, 1991

SF *RPV*

BT1 Reactor Components

**REACTOR PROJECTS**

(Doe Order 5480.6)

DA October 12, 1990

BT1 Projects

SO Industrial Safety

DEF (DOE Order 5480.6) Those activities that contribute to siting, designing, constructing, operating, or decommissioning a reactor, and those activities involving the operation or maintenance of operable and standby reactors, including shutdown reactors containing fuel.

**REACTOR PROTECTION SYSTEM**

DA January 8, 1991

SF *RPS*

BT1 Emergency Systems

BT2 Systems

NT1 Emergency Core Cooling System

RT Reactor Components

**REACTOR REFUELING ACTIVITY**

(1248 RR ACTIVITY)

DA November 28, 1990

BT1 Activity Types (DOE FRASE Vocabulary)

BT2 Activities

RT Reactor Components

SO DOE FRASE VOCABULARY

**REACTOR SAFETY STUDY**

DA January 8, 1991

SF *RSS*

BT1 Studies

**REACTOR SAFETY STUDY**

**METHODOLOGY APPLICATION PROGRAM**

DA January 8, 1991

SF *RSSMAP*

BT1 Programs

RT Studies

**REACTOR SHUTDOWN**

(NFI)

DA October 12, 1990

NT1 Scram

NT2 Automatic Reactor Scram

NT2 Manual Reactor Scram

RT Anticipated Transient Without Scram

RT Automatic Backup Shutdown of the Safety Computer

RT Core Melt Accidents

RT Engineered Safety Features (Shutdown)

RT Process Unit Shutdown

RT Reactors

RT Safe Shutdown System

RT Shutdown Cooling

RT Shutdown Heat Exchanger

RT Shutdown Sequencer

RT Very Low Flow Constant

SO Nuclear Facilities Incident Database

SO Radiation

DEF (NFI) Used as extra descriptor or as qualifier to reactor when the fact that reactor was in shutdown mode is significant to the severity of the incident.

**REACTOR SUBCRITICALITY**

DA January 8, 1991

SF *RESC*

BT1 Criticality

**REACTOR SUPERVISOR**

(Doe Order 5480.6)

DA October 12, 1990

BT1 Technically Qualified Individuals

BT2 Personnel

SO Industrial Safety

DEF (DOE Order 5480.6) An individual certified by contractor management to operate or to direct the operation of a DOE-owned Category B reactor.

**REACTOR TECHNOLOGY**

**DEPARTMENT**

DA January 8, 1991

SF *RTD*

**REACTOR VESSEL**

DA January 8, 1991

SF *RV*

BT1 Reactor Components

**REACTOR VOLUME CONTROL**

DA January 8, 1991

SF *RVC*

BT1 Controls

DEF (NFI) Related to inventory control.

**REACTOR WASTE**

(2588 REACTOR WAST)

DA January 3, 1991

BT1 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)

BT2 Equipment

BT2 Reactor Components

SO DOE FRASE VOCABULARY

**REACTOR WATER LEVEL**

DA January 8, 1991

SF *RWL*

**REACTOR WORKS ENGINEERING**

DA January 8, 1991

SF *RWE*

RT Reactor Facilities

**REACTORS**

DA January 8, 1991

SF *RX*

NT1 Advanced Test Reactor

NT1 Annular Core Research Reactor

NT1 Arkansas Nuclear One-1

NT1 Boiling Water Reactor

NT1 Category A Reactors

NT1 Experimental Boiling Water Reactor

NT1 Light Water Reactor

NT1 Materials Test Reactor

NT1 Naval Reactors

NT1 New Production Reactor

NT1 Omega West Reactor

NT1 Pressurized Water Reactor

NT1 Sandia Pulse Reactor III

RT Advisory Committee on Reactor Safety

RT NRC Office of Nuclear Reactor Regulation

RT Reactor Components

RT Reactor Facilities

RT Reactor Operations

RT Reactor Shutdown

DEF (DOE Order 5480.6) Any apparatus that is designed or used to sustain nuclear chain reactions in a controlled manner, including critical and pulsed assemblies and research, test, and power reactors, is defined as a reactor. All assemblies designed to perform subcritical experiments which could potentially reach criticality are also to be considered

reactors. Critical assemblies are special nuclear devices designed and used to sustain nuclear reactions. Critical assemblies may be subject to frequent core and lattice configuration changes and may be used often as mockups of reactor configurations. Therefore, requirements for modifications do not apply unless the overall assembly room is modified, a new assembly room proposed, or a new configuration not covered in previous safety evaluations.

affixed thereto, whether by nature or by the hand of man. By "nature" is meant trees, the products of the land, natural resources; by "the hand of man", those objects, buildings, fences, bridges, etc. that are erected upon the land. All equipment or fixtures (such as plumbing, electrical, heating, built-in cabinets, and elevators) that are installed in a building in a more or less permanent manner or which are essential to its primary purpose, usually are held to part of the real property.

minimize the impacts (i.e., amount or extent) of incidental take.

**REACTORS (CHEMICAL)**

(CAA; CFR)  
 DA October 12, 1990  
 BT1 Facility Components  
 RT Polyvinyl Chloride  
 RT Vinyl Chloride  
 SO Air Pollution  
 DEF Includes any vessels in which vinyl chloride is partially or totally polymerized into polyvinyl chloride.

**READINESS ASSURANCE**

(EMER)  
 DA February 1, 1991  
 SO Emergency Preparedness  
 DEF (EMER) The actions taken to provide assurance that headquarters, field elements, and facility contractors implement appropriate aspects of U.S. Department of Energy (DOE) emergency management program policies and requirements as established by DOE orders.

**REAGENT GRADE**

(ESH)  
 DA October 12, 1990  
 SO Quality Assurance  
 DEF (ESH) Analytical reagent (AR) grade, ACS reagent grade, and reagent grade are synonymous terms for reagents that conform to the current specifications of the Committee on Analytical Reagents of the American Chemical Society.

**REAL PROPERTY**

(DOE Order 4330.4A)  
 DA June 5, 1991  
 BT1 Property  
 RT Equipment  
 RT Facilities  
 RT Personal Property  
 RT Sites/Areas  
 SO Management  
 DEF (DOE Order 4330.4A) Includes land, improvements on the land, or both, including interests therein. The chief characteristics of real property (real estate) are its immobility and tangibility. It comprises land and all things of a permanent and substantial nature

**REAL PROPERTY INVENTORY SYSTEM**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 SF RPIS  
 BT1 Information Systems  
 BT2 Security Interests  
 BT2 Systems  
 SO Construction  
 DEF (DOE Order 6430.1A) The Department of Energy's automated real property reporting system.

**REASONABLE AND PRUDENT ALTERNATIVES**

(ESA; CFR)  
 DA October 12, 1990  
 SY Alternative Courses of Action  
 BT1 Actions  
 BT2 Responses  
 RT Formal Consultation  
 RT Irreversible Commitment of Resources  
 RT Reasonable and Prudent Measures  
 SO Endangered Species  
 DEF Alternative actions identified during formal consultation that can be implemented in a manner consistent with the intended purpose of the action, that can be implemented consistent with the scope of the Federal agency's legal authority and jurisdiction, that are economically and technologically feasible, and that the Director believes would avoid the likelihood of jeopardizing the continued existence of listed species or resulting in the destruction or adverse modification of critical habitat.

**REASONABLE AND PRUDENT MEASURES**

(ESA; CFR)  
 DA October 12, 1990  
 BT1 Actions  
 BT2 Responses  
 RT Incidental Take (Taking)  
 RT Reasonable and Prudent Alternatives  
 SO Endangered Species  
 DEF Those actions the Director believes necessary or appropriate to

**REASONABLE COSTS**

(CERCLA)  
 DA November 15, 1990  
 BT1 Costs  
 SO Compensation and Liability  
 DEF (CERCLA) Amounts that may be recovered for the cost of performing a damage assessment. Costs are reasonable when: the Injury Determination, Quantification, and Damage Determination phases have a well-defined relationship to one another and are coordinated; the anticipated increment of extra benefits in terms of the precision or accuracy of estimates obtained by using a more costly injury, quantification, or damage determination methodology are greater than the anticipated increment of extra costs of that methodology; and the anticipated cost of the assessment is expected to be less than the anticipated damage amount determined in the Injury, Quantification, and Damage Determination phases.

**REASONABLE FURTHER PROGRESS**

(CAA)  
 DA October 12, 1990  
 SY Increments of Progress  
 RT National Ambient Air Quality Standards  
 RT Schedule of Compliance  
 SO Air Pollution  
 DEF (CAA) Annual incremental reductions in emissions of the applicable air pollutant (including substantial reductions in the early years following approval or promulgation of plan provisions under this part [42 USCS 7501 et seq.] and section 110(a)(2)(I) [42 USCS 7410(a)(2)(I)] and regular reductions thereafter) which are sufficient in the judgment of the Administrator to provide for attainment of the applicable national ambient air quality standard by the date required in section 172(a) [42 USCS @ 7502(a)].

**REASONABLY ATTRIBUTABLE**

(CAA; CFR)  
 DA October 12, 1990  
 RT Causes  
 SO Air Pollution  
 DEF (CFR) Attributable by visual observation or any other technique the State deems appropriate.

**REASONABLY AVAILABLE CONTROL TECHNOLOGY**

(CAA; CFR)

DA October 12, 1990

SF *RACT*

RT Best Available Control Technology

RT Existing Sources

RT Non-Attainment Areas

SO Air Pollution

SO Environmental Management

SO Environmental Protection Agency Glossary

DEF (CFR) The lowest emissions limit that a particular source is capable of meeting by the application of control technology that is both reasonably available, as well as technologically and economically feasible. RACT is usually applied to existing sources in nonattainment areas and in most cases is less stringent than new source performance standards. Devices, systems process modifications, or other apparatus or techniques that are reasonably available taking into account (1) the necessity of imposing such controls in order to attain and maintain a national ambient air quality standard; (2) the social, environmental, and economic impact of such controls; and (3) alternative means of providing for attainment and maintenance of such standard. (This provision defines RACT for the purposes of 40 CFR 51.110(c)(2) and 51.341(b) only.)

**REBRICKING**

(CAA; CFR)

DA October 12, 1990

RT Glass Melting Furnaces

RT Refractories

SO Air Pollution

DEF Cold replacement of damaged or worn refractory parts of the glass melting furnace. Rebricking includes replacement of the refractories comprising the bottom, sidewalls, or roof of the melting vessel; replacement of refractory work in the heat exchanger; and replacement of refractory portions of the glass conditioning and distribution system.

**RECEIVING STREAMS**

(DOE Order 6430.1A)

DA October 12, 1990

BT1 Receiving Waters

SO Construction

DEF (DOE Order 6430.1A) Streams that receive outfall discharge of wastewater effluents.

**RECEIVING WATERS**

(EPA)

DA October 12, 1990

NT1 Receiving Streams

RT Wastewater

RT Watershed

SO Environmental Protection Agency Glossary

DEF (EPA) A river, lake, ocean, stream or other watercourse into which wastewater or treated effluent is discharged.

**RECHARGE**

DA November 9, 1990

RT Percolation

RT Saturated Zones

DEF The process by which water is added to a zone of saturation, usually by percolation from the soil surface, e.g., the recharge of an aquifer.

**RECHARGE AREAS**

(EPA)

DA October 12, 1990

BT1 Sites/Areas

SO Environmental Protection Agency Glossary

DEF (EPA) Land areas in which water reaches to the zone of saturation from surface infiltration, e.g., areas where rainwater soaks through the earth to reach an aquifer.

**RECIRCULATED COOLING WATER**

DA January 8, 1991

SF *RCW***RECIRCULATION PUMP TRIP**

DA January 8, 1991

SF *RPT***RECIRCULATOR**

(2138 RECIRCULATOR)

DA December 10, 1990

BT1 Machines (DOE FRASE Vocabulary)

BT2 Equipment

SO DOE FRASE VOCABULARY

**RECLAMATION**

(EDB)

DA February 1, 1991

BT1 Resource Recovery

BT2 Pollution Recovery Processes

BT3 Processes

NT1 Land Reclamation

NT1 Refuse Reclamation

RT Abatement

RT Air Pollution

RT Land Disposal

RT Land Treatment Facilities

RT Waters of the United States

RT Water Pollution

SO Environmental Management

DEF (DSTT) The recovery of natural resources previously abandoned due to some form of damage.

**RECOMBINANT BACTERIA**

(EPA)

DA October 12, 1990

BT1 Bacteria

BT2 Microorganisms

BT3 Organisms

SO Environmental Protection Agency Glossary

DEF (EPA) A type of microorganism whose genetic makeup has been altered by deliberate introduction of new genetic elements. The offspring of these altered bacteria also contain these new genetic elements.

**RECOMBINANT DNA**

(EPA)

DA October 12, 1990

SF *rDNA*

BT1 DNA

BT2 Organic Chemicals

BT3 Chemical Substances

SO Environmental Protection Agency Glossary

DEF (EPA) The new DNA that is formed by combining pieces of DNA from different organisms or cells.

**RECOMMENDATIONS**

(SSDC)

DA October 12, 1990

NT1 Conservation Recommendations

NT1 Corrective Actions

NT1 Protective Action Recommendations

RT Guidelines

RT Responses

SO System Safety Development Center Glossary

DEF (SSDC) Specific methods and corrective actions believed feasible, logical, practical, and sufficient to fulfill the judgments of needs. In general, each need is expressed in two kinds of recommendations: (1) for fixing the specific problems involved in the occurrence; and (2) for fixing systemic problems revealed during the investigation.

**RECOMMENDED MAXIMUM CONTAMINANT LEVEL**

(EPA)

DA October 12, 1990

SF *RMCL*

RT Maximum Contaminant Levels

SO Environmental Protection Agency Glossary

DEF (EPA) The maximum level of a contaminant in drinking water at which no known or anticipated adverse affect on human health would occur, and which includes an adequate margin of safety. Recommended levels are nonenforceable health goals.

**RECONSTRUCTED SOURCES**

(EPA)  
 DA October 12, 1990  
 BT1 Existing Facilities  
 BT2 Facilities  
 RT Reconstruction  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Existing facilities in which components are replaced to such an extent that the fixed capital cost of the new components exceed 50 percent of the capital cost that would be required to construct a comparable entirely new facility. New source performance standards may be applied to sources that are reconstructed after the proposal of the standard if it is technologically and economically feasible to meet the standard.

**RECONSTRUCTION**

(CAA; CFR; ESH)  
 DA October 12, 1990  
 BT1 Administrative Processes  
 BT2 Processes  
 RT Reconstructed Sources  
 SO Air Pollution  
 DEF Will be presumed to have taken place where the fixed capital cost of the new component exceeds 50 percent of the fixed capital cost of a comparable entirely new source. Any final decision as to whether reconstruction has occurred must be made in accordance with the provisions of 40 CFR 60.15(f) (1) through (3).

**RECORD OF DECISION (CERCLA)**

(EPA; CERCLA)  
 DA May 16, 1991  
 SF *ROD (CERCLA Record of Decision)*  
 SO Environmental Management  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A public document prepared by the Environmental Protection Agency that explains which cleanup alternatives(s) will be used at National Priorities List sites where, under CERCLA, the Trust Fund pays for the cleanup. (DOE) The Record of Decision, under CERCLA, is a legally binding decision document required for all remedial actions. It: 1) summarizes problems posed by a site and analyzes methods to address them; 2) documents the decision process; 3) demonstrates consistency with CERCLA, SARA, and the NCP; 4) supports future cost recovery actions; and 5) serves as the centerpiece for the administrative record.

**RECORD OF DECISION (NEPA)**

(DOE Order 5440.1D; NEPA; ESH)  
 DA October 12, 1990  
 SY Enforcement Decision Documents  
 SF *ROD (NEPA Record of Decision)*  
 RT Alternative Courses of Action  
 RT Mitigation Action Plans  
 RT National Environmental Policy Act Documents  
 RT Programmatic NEPA Documents  
 RT Proposed Actions  
 RT Site-Wide NEPA Documents  
 RT Supplement Analyses  
 SO Environmental Management  
 SO Environmental Protection Agency Glossary  
 SO Management  
 DEF (ESH) A concise public record of the Department's decision on a proposed action for which an environmental impact statement was prepared which includes the alternatives considered, the environmentally preferable alternative, factors balanced in the decision, and mitigation measures and monitoring to minimize harm. (DOE Order) A document prepared in accordance with the requirements of 40 CFR 1505.2, that provides a concise public record of the Department's decision on a proposed action for which an Environmental Impact Statement was prepared, and identifies the alternatives considered in reaching the decision, the environmentally preferable alternative(s), factors balanced by the Department in making the decision, whether all practicable means to avoid or minimize environmental harm have been adopted, and if not, why they were not.

**RECORDED DOSES**

(Doe Order 5484.1)  
 DA October 12, 1990  
 BT1 Doses  
 SO Management  
 DEF (DOE Order 5484.1) Those numbers (corrected for background), zero (minimal or negligible) and above, which are recorded as representing individuals' doses from external radiation sources or internally deposited radioactive materials determined in accordance with DOE 5480.1B, Chapter XI, requirements.

**RECORDER**

(2766 RECORDER)  
 DA January 3, 1991  
 BT1 Instrument(s)  
 BT2 Equipment/Parts - Instrumentation/Measuring (DOE FRASE Voc.)

BT3 Equipment  
 SO DOE FRASE VOCABULARY

**RECORDING LEVELS**

(IAEA)  
 DA November 20, 1990  
 BT1 Reference Levels  
 SO Radiation  
 DEF (IAEA) Levels defined by the competent authority or the management for any of the quantities determined in the practice of radiation protection, above which recording of the information is taken to be necessary.

**RECOVERABLE**

(SWDA; RCRA)  
 DA October 12, 1990  
 RT Recovered Materials  
 SO Wastes  
 DEF Refers to the capability and likelihood of being recovered from solid waste for a commercial or industrial use.

**RECOVERED MATERIALS**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Materials  
 RT Recoverable  
 RT Solid Wastes  
 SO Wastes  
 DEF Waste materials and by-products that have been recovered or diverted from solid waste. This term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

**RECOVERED RESOURCES**

(RCRA; ANL)  
 DA May 24, 1991  
 BT1 Resource  
 RT Resource Recovery  
 RT Solid Wastes  
 SO Environmental Management  
 SO Wastes  
 DEF (RCRA Sec. 1004(20)) Material or energy recovered from solid waste.

**RECOVERY**

(ESA; CFR)  
 DA October 12, 1990  
 RT Listed Species  
 RT Resource Conservation and Recovery Act  
 SO Endangered Species  
 DEF Improvement in the status of listed species to the point at which listing is no longer appropriate under the criteria set out in section 4(a)(1) of the Endangered Species Act.

**RECOVERY ACTIONS**

(EMER; MORT)  
 DA February 1, 1991  
 BT1 Actions  
 BT2 Responses  
 BT1 Recovery Plans  
 BT2 Amelioration  
 RT Corrective Actions  
 RT Emergency Actions  
 RT Relations  
 SO Emergency Preparedness  
 DEF (EMER) Those actions taken after an emergency to restore the affected areas as nearly as possible to the preemergency condition. (MORT) MORT analysis asks: were recovery actions taken with respect to persons and objects after the accident? if an injury was disabling, could it's overall disabling effect have been reduced and/or the individual made more functional? was damaged equipment, buildings, or other property expeditiously repaired, salvaged, or replaced?

**RECOVERY PLANS**

(EMER)  
 DA February 1, 1991  
 BT1 Amelioration  
 NT1 Recovery Actions  
 SO Emergency Preparedness  
 DEF (EMER) Plans developed to restore the affected area with federal assistance if needed.

**RECREATION AREA**

(1616 RECREATION A)  
 DA December 10, 1990  
 BT1 Area  
 BT2 Sites/Areas  
 RT Recreation/Break Activity  
 SO DOE FRASE VOCABULARY

**RECREATION/BREAK ACTIVITY**

(1241 RB ACTIVITY)  
 DA November 28, 1990  
 BT1 Activity Types (DOE FRASE Vocabulary)  
 BT2 Activities  
 RT Recreation Area  
 SO DOE FRASE VOCABULARY

**RECTIFIER(S)**

(2413 RECTIFIER)  
 DA January 3, 1991  
 BT1 Equipment/Parts - Electrical (DOE FRASE Vocabulary)  
 BT2 Equipment  
 SO DOE FRASE VOCABULARY

**RECTUM**

(1120 RECTUM)  
 DA November 28, 1990  
 BT1 Digestive System  
 BT2 Body System(s)  
 BT3 Human Body Parts  
 SO DOE FRASE VOCABULARY

**RECYCLED MATERIALS**

DA January 24, 1991  
 BT1 Materials  
 RT Post Consumer Wastes  
 RT Recycling  
 RT Scrap  
 DEF (CFR) Materials that can be utilized in place of raw or virgin materials in manufacturing a product and consist of materials derived from post consumer waste, industrial scrap, material derived from agricultural wastes and other items, all of which can be used in the manufacture of new products.

**RECYCLED OILS**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Used Oils  
 BT2 Oils  
 NT1 Re-refined Oils  
 SO Wastes  
 DEF Any used oils that are reused, following their original use, for any purpose (including the purpose for which the oil was originally used). Such terms includes oils that are re-refined, reclaimed, burned, or reprocessed.

**RECYCLED PCBs**

(TSCA; CFR)  
 DA October 12, 1990  
 BT1 Polychlorinated Biphenyls  
 BT2 Carcinogens  
 BT3 Hazardous Substances  
 BT2 Chlorinated Hydrocarbons  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Halogenated Organic Compounds  
 BT4 Halogenated  
 BT4 Organic Chemicals  
 BT5 Chemical Substances  
 SO Hazardous Materials  
 DEF Defined as those intentionally manufactured PCBs that appear in the processing of paper products or asphalt roofing materials as PCB-contaminated raw materials and that meet these requirements: (1) The concentration of Aroclor PCBs in paper products leaving any manufacturing site or imported into the United States must have an annual average of less than 25 ppm with a 50 ppm maximum. (2) There are no detectable concentrations of Aroclor PCBs in asphalt roofing materials. (3) The release of Aroclor PCBs at the point at which emissions are vented to ambient air must be less than 10 ppm. (4) The amount of Aroclor PCBs added to water discharged from a processing site must at all times be less than 3 micrograms per liter (mg/l) for total Aroclors (roughly 3 parts per

billion (3 ppb)). (5) Disposal of any other process wastes above concentrations of 50 ppm PCB must be in accordance with Subpart D of 40 CFR 761.

**RECYCLING**

(EPA)  
 DA October 12, 1990  
 SY Reuse  
 BT1 Waste Management Processes  
 BT2 Processes  
 NT1 Closed-Loop Recycling  
 RT Cullet  
 RT Discarded Materials  
 RT Recycled Materials  
 RT Refuse Reclamation  
 RT Scrap  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) The process of minimizing the generation of waste by recovering usable products that might otherwise become waste. Examples are the recycling of aluminum cans, wastepaper, and bottles.

**RED BORDERS**

(EPA)  
 DA October 12, 1990  
 BT1 Reports  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) EPA documents undergoing final review before being submitted for final management decision.

**RED TIDE**

(EPA)  
 DA October 12, 1990  
 SY Algae Bloom  
 SY Water Bloom  
 BT1 Natural Phenomenon  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A proliferation of a marine plankton that is toxic and often fatal to fish. This natural phenomenon may be stimulated by the addition of nutrients. A tide can be called red, green, or brown depending on the coloration of the plankton.

**REDAC**

DA October 12, 1990  
 SEE Remote Detection and Control  
 SO Acronyms

**REDS**

DA October 12, 1990  
 SEE Reactor Electric Distribution System  
 SO Acronyms

**REDUCTION**

DA May 20, 1991  
 BT1 Chemical Processes  
 BT2 Processes

**SO Radiation**

**DEF (DSTT)** Reaction of hydrogen with another substance. Chemical reaction in which an element gains an electron (has a decrease in positive valence).

**REDUNDANCE**

(SSDC)

DA October 12, 1990

RT Controls

RT Quality Assurance

SO System Safety Development Center Glossary

**DEF (SSDC)** A planned duplication of controls to increase assurance of reliability.

**REECO**

DA October 12, 1990

SEE Reynolds Electrical and Engineering Company

SO Acronyms

**REEL(S)**

(2339 REEL)

DA December 10, 1990

BT1 Equipment/Parts - Material Handling (DOE FRASE Vocabulary)

BT2 Equipment

SO DOE FRASE VOCABULARY

**REENTRY INTERVALS**

(EPA)

DA October 12, 1990

BT1 Time Designations

SO Environmental Protection Agency Glossary

**DEF (EPA)** Periods of time immediately following the application of a pesticide during which unprotected workers should not enter a field.

**REFERENCE DOSE (RFD)**

(EPA)

DA October 12, 1990

SY RFD

BT1 Doses

NT1 Chronic RfD

NT1 Developmental RfD

NT1 Subchronic RfD (RfD)

SO Environmental Protection Agency Glossary

**DEF (EPA)** Toxicity value used most often in evaluating noncarcinogenic effects resulting from exposures at Superfund sites. See specific entries for chronic RfDs, subchronic RfDs, and developmental RfDs.

**REFERENCE LEVELS**

(IAEA)

DA February 27, 1991

NT1 Emergency Reference Levels

NT1 Intervention Levels

NT1 Investigation Levels

NT1 Recording Levels

**NT1 Waste Load Allocations****NT1 Water Quality Criteria****SO Emergency Preparedness****SO Radiation**

**DEF (IAEA)** The values of quantities which govern a particular course of action. Such levels may be established for any of the quantities determined in the practice of radiation protection; when they are reached or exceeded, all relevant information is considered and the appropriate action may be taken. Reference levels are not to be confused with the limits. Reference levels in the IAEA Basic Safety Standards are: recording levels, investigation levels, and intervention levels.

**REFERENCE MAN**

(DOE Order 5400.5; IAEA; NCRP)

DA October 12, 1990

RT Annual Limit on Intake

RT Derived Air Concentration

RT Derived Concentration Guide

RT Radiation Protection

SO Radiation

SO Wastes

**DEF** A hypothetical aggregation of human (male and female) physical and physiological characteristics arrived at by international consensus (ICRP Publication 23). These characteristics may be used by researchers and public health workers to standardize results of experiments and to relate biological insult from ionizing radiation to a common base. The "reference man" is assumed to inhale 8400 cubic meters of air in a year and to ingest 730 liters of water in a year. (IAEA) A model of a hypothetical adult with the anatomical and physiological characteristics defined in the report of the ICRP Task Group on Reference Man, used in dosimetry for radiation protection purposes.

**REFERENCE METHODS**

(CAA; ESH)

DA October 12, 1990

NT1 Method 24

NT1 Method 25

RT Air Monitoring

RT Alternate Methods

RT Equivalent Methods

RT Sampling

SO Air Pollution

SO Environmental Management

**DEF (CFR)** Methods of sampling and analyzing the ambient air for an air pollutant that are specified as reference methods in an appendix to 40 CFR 50, or a method that has been designated as a reference method in accordance with 40 CFR 53; it does not

include a method for which a reference method designated has been cancelled in accordance with 40 CFR 53.11 or 53.16.

**REFERENCE STANDARDS**

(DOE Order 5480.4; ESH)

DA October 12, 1990

BT1 Standards

BT2 Codes, Standards, and Regulations

SO Environmental Management

SO Management

SO Standards

**DEF** Those guides or standards of DOE Order 5480.4 adopted by DOE that DOE and its contractors should consider for guidance, as applicable, in addition to the mandatory standards.

**REFERENCE SUBSTANCES**

(TSCA)

DA October 19, 1990

BT1 Samples

SO Hazardous Materials

**DEF (TSCA)** Any chemical substances or mixtures, or analytical standards, or materials other than a test substance, feed, or water, that are administered to or used in analyzing the test system in the course of a study for the purposes of establishing a basis for comparison with the test substance for known chemical or biological measurements.

**REFLEX ARC RESPONSES**

(SSDC)

DA October 12, 1990

BT1 Stimulus-Response

RT Human Factors

SO System Safety Development Center Glossary

**DEF (SSDC)** Those involuntary responses to physical stimulus, such as the leg jerking when the knee is tapped in the right spot.

**REFRACTORIES**

(DOE Order 6430.1A)

DA October 12, 1990

RT Pot Furnaces

RT Rebrickng

SO Construction

**DEF (DOE Order 6430.1A)** Refractories include nonmetallic materials having those chemical and physical properties that make them applicable for structures, or as components of systems, that are exposed to environments above 1,000°F.

**REFRIGERATION ROOM**

(1711 REFRIG ROOM)

DA December 10, 1990

BT1 Room

BT2 Sites/Areas  
SO DOE FRASE VOCABULARY

**REFUELING WATER STORAGE TANK**

DA January 8, 1991  
SF *RWST*  
BT1 Tanks  
BT2 Facility Components

**REFUSE**

(EPA)  
DA November 9, 1990  
SY Solid Wastes  
NT1 Coal Refuse  
DEF (EPA) Synonymous to Solid Waste: Any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semiliquid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations, and from community activities, but does not include solid or dissolved materials in irrigation return flows or industrial discharges that are point sources subject to permits under section 402 of the Federal Water Pollution Control Act, as amended (86 Stat. 880)[33 USCS 1342], or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended(68 Stat. 923)[42 USCS 2011 et seq.].

**REFUSE RECLAMATION**

(EPA)  
DA October 12, 1990.  
BT1 Reclamation  
BT2 Resource Recovery  
BT3 Pollution Recovery Processes  
BT4 Processes  
BT1 Solid Waste Management  
BT2 Waste Management  
BT3 Processes  
RT Recycling  
SO Environmental Protection Agency Glossary  
DEF (EPA) Conversion of solid waste into useful products, e.g., composting organic wastes to make soil conditioners or separating aluminum and other metals for melting and recycling.

**REGENERATION**

(EPA)  
DA October 12, 1990  
BT1 Biological Processes  
BT2 Processes  
SO Environmental Protection Agency Glossary  
DEF (EPA) Manipulation of individual cells or masses of cells to cause them to develop into whole plants.

**REGIONAL ADMINISTRATOR**

(SWDA; RCRA; CFR)  
DA October 12, 1990  
BT1 Administrators  
BT2 Personnel  
BT1 Personnel  
RT Directors  
SO Wastes  
SO Water Pollution  
DEF The Regional Administrator of the appropriate Regional Office of the Environmental Protection Agency or the authorized representative of the Regional Administrator.

**REGIONAL ASSISTANCE COMMITTEES**

(EMER)  
DA February 1, 1991  
BT1 Committees  
BT2 Administrative Organizations  
BT3 Organizations  
SO Emergency Preparedness  
DEF (EMER) Regional committees chaired by a regional Federal Emergency Management Agency representative with members from numerous federal departments and agencies including the U.S. Department of Energy. The purpose of regional assistance committees are to assist state and local government officials in the development of their radiological emergency response plans including reviewing plans and observing exercises.

**REGIONAL AUTHORITY**

(SWDA; RCRA)  
DA October 12, 1990  
SO Wastes  
DEF The authority established or designated under section 4006 [42 USCS 6946].

**REGIONAL COORDINATING OFFICES**

(EMER)  
DA February 1, 1991  
BT1 Offices  
BT2 Administrative Organizations  
BT3 Organizations  
SO Emergency Preparedness  
DEF (EMER) Operations offices located at Oak Ridge, Savannah River, Albuquerque, Chicago, Idaho, Richland, and San Francisco which provide radiological assistance coordination, national contingency planning, and regional preparedness committee coordination.

**REGIONAL FREQUENCY ANALYSIS**

(DOE Order 6430.1A)  
DA October 12, 1990  
BT1 Analyses  
SO Construction  
DEF (DOE Order 6430.1A) An analysis

that addresses the probability of the occurrence of two or more random hydrologic events.

**REGIONAL OFFICE**

(CAA; CFR)  
DA October 12, 1990  
BT1 U.S. Environmental Protection Agency  
BT2 Federal Agencies  
BT3 Agencies  
BT4 Administrative Organizations  
BT5 Organizations  
RT Water Management Division Director  
SO Air Pollution  
DEF (CFR) One of the ten (10) EPA Regional Offices.

**REGIONAL RESPONSE TEAMS**

(EPA; EMER)  
DA October 12, 1990  
SF *RRT*  
BT1 Response Teams  
BT2 Teams  
BT3 Administrative Organizations  
BT4 Organizations  
RT Activation (Emergency)  
SO Emergency Preparedness  
SO Environmental Protection Agency Glossary  
DEF (EPA) Representatives of federal, local, and state agencies who may assist in coordination of activities at the request of the On-Scene Coordinator before and during a Superfund response action.

**REGIONAL WATER QUALITY CONTROL BOARD**

DA January 8, 1991  
SF *RWQCB*  
BT1 Boards  
BT2 Administrative Organizations  
BT3 Organizations

**REGIONS**

(CAA; CFR)  
DA October 12, 1990  
BT1 Air Quality Control Regions  
BT2 Sites/Areas  
SO Air Pollution  
DEF (CFR) Area designated as an air quality control region (AQCR).

**REGISTRANTS**

(EPA)  
DA October 12, 1990  
SO Environmental Protection Agency Glossary  
DEF (EPA) Any manufacturers or formulators who obtain registration for a pesticide active ingredient or product.

**REGISTRATION**

(EPA)  
DA October 12, 1990  
NT1 Conditional Registration

**NT1 Reregistrations***RT* Cancellations*RT* Changed Use Pattern*SO* Environmental Protection Agency Glossary

**DEF** (EPA) Formal listing with EPA of a new pesticide before it can be sold or distributed in intra- or inter-state commerce. The product must be registered under the Federal Insecticide, Fungicide, and Rodenticide Act. EPA is responsible for registration (pre-market licensing) of pesticides on the basis of data demonstrating that they will not cause unreasonable adverse effects on human health or the environment when used according to approved label directions. Includes reregistration.

**REGISTRATION STANDARDS**

(EPA)

*DA* October 12, 1990*BT1* Reports*RT* Data Call-In*SO* Environmental Protection Agency Glossary

**DEF** (EPA) Published reviews of all the data available on pesticide active ingredients.

**REGULATED ACTIVITIES**

(SWDA; RCRA; CFR)

*DA* October 19, 1990*BT1* Activities*RT* Major PSD Stationary Source*RT* Major PSD Modification*RT* Regulated Substances*SO* Wastes

**DEF** "Major Prevention of Significant Deterioration (PSD) stationary sources" or "major PSD modifications."

**REGULATED SUBSTANCES**

(SWDA; RCRA; CFR)

*DA* October 12, 1990*RT* CERCLA Hazardous Substances*RT* Free Products*RT* Listed Hazardous Substances*RT* Regulated Activities*SO* Wastes

**DEF** Chemicals, compounds, or materials the manufacture, generation, transportation, alteration, or disposition of which are regulated under any of the Federal or State statutes.

**REGULATIONS AND PROCEDURES****MANUAL, PUB-201***DA* January 8, 1991*SF* R&PM*RT* Procedures**REGULATOR**

(2414 REGULATOR)

*DA* January 3, 1991*BT1* Equipment/Parts - Electrical (DOE FRASE Vocabulary)*BT2* Equipment*SO* DOE FRASE VOCABULARY**REGULATORY GUIDE***DA* January 8, 1991*SF* RG**REGULATORY ORGANIZATIONS**

(DOE Order 5440.1C; ESH)

*DA* October 19, 1990*SY* Program Organizations*BT1* Organizations*RT* Federal Agencies*SO* Management

**DEF** Organizations (Assistant Secretary, Administrator, or Director level) responsible for the decision making and implementation of the Department's programmatic or regulatory action requiring a National Environmental Policy Act review.

**REHR***DA* October 12, 1990*SEE* Reactor Heat Removal*SO* Acronyms**REIMBURSEMENT PERIOD***DA* January 24, 1991*BT1* Time Designations*SO* Environmental Management

**DEF** (CFR) Refers to a period that begins when the data from the last non-duplicative test to be completed under a test rule are submitted to EPA and ends after an amount of time equal to that which had been required to develop data or after five years.

**REINFORCEMENT RATIO**

(DOE Order 6430.1A)

*DA* October 12, 1990*BT1* Ratios*RT* Grade Beams*SO* Construction

**DEF** (DOE Order 6430.1A) The percentage of tension reinforcement in a reinforced concrete beam.

**RELATED PERSONAL PROPERTY**

(DOE Order 4330.4A)

*DA* June 5, 1991*BT1* Personal Property*BT2* Property*RT* Equipment*SO* Management

**DEF** (DOE Order 4330.4A) Means any personal property that, once installed, becomes an integral part of the real property in which it is installed or is related to, designed for, or specially adapted to the functional or productive capacity of

the real property. The removal of related personal property would significantly diminish the economic value of the real property or the related personal property. Examples of related personal property are communications and telephone systems.

**RELATIONS**

(MORT)

*DA* April 3, 1991*RT* Corrective Actions*RT* Emergency Actions*RT* Public Information Officers*RT* Recovery Actions

**DEF** (MORT) MORT analysis asks: Was there a management plan outlining the protocol to be followed and steps to be taken subsequent to a significant accident? was the accident news disseminated to all concerned parties in a proper and timely manner?

**RELATIVE BIOLOGICAL EFFECTIVENESS**

(IAEA, NIH; EMER)

*DA* October 12, 1990*SF* RBE*BT1* Radiation Units*BT2* Units of Measure*RT* Absorbed Dose*RT* Quality Factors*SO* Emergency Preparedness*SO* Radiation

**DEF** (NIH) For a particular living organism or part of an organism, the ratio of the absorbed dose of a reference radiation that produces a specified biological effect to the absorbed dose of the radiation of interest that produces the same biological effect.

**RELATIVE IMPORTANCE MEASURE***DA* January 8, 1991*SF* RIM*BT1* Measurements**RELAY(S)**

(2415 RELAY)

*DA* January 3, 1991*BT1* Equipment/Parts - Electrical (DOE FRASE Vocabulary)*BT2* Equipment*NT1* Building Power Low Voltage Relay*NT1* Building Time Delay Relay*NT1* Phase Failure Relays*NT1* Scram Relay*SO* DOE FRASE VOCABULARY**RELEASE DETECTION**

(SWDA; RCRA; CFR)

*DA* October 12, 1990*BT1* Detection*RT* Releases*RT* UST Systems

**SO Wastes**

**DEF** Determining whether a release of a regulated substance has occurred from the underground storage tank (UST) system into the environment or into the interstitial space between the UST system and its secondary barrier or secondary containment around it.

**RELEASE OF PROPERTY**

(Doe Order 5400.5)

**DA** October 12, 1990

**BT1** Administrative Processes

**BT2** Processes

**RT** Radioactive Materials

**SO** Wastes

**DEF** (DOE Order 5400.5) As used in this Order, means the exercising of DOE's authority to release property from its control after confirming that residual radioactive material (over which DOE has authority) on the property has been determined to meet the guidelines for residual radioactive material in Chapter IV or any other applicable radio- logical requirements. There may be instances in which DOE or other authority will impose restrictions on the management and/or use of the property if the residual radioactive material guidelines of Chapter IV are not met or if other applicable Federal, State, or local requirements cause the imposition of such restrictions.

**RELEASES**

(SWDA; CERCLA; CFR; ESA; ESH; EMER)

**DA** October 12, 1990

**NT1** Aboveground Releases

**NT1** Airborne Releases

**NT1** Belowground Releases

**NT1** Environmental Release

**NT1** Federally Permitted Releases

**NT1** Major Release

**NT1** Minor Releases

**NT1** Overfill Releases

**NT1** Radiological Releases

**NT1** Underground Releases

**RT** Community Awareness and Emergency Response Programs

**RT** Discharges

**RT** Emissions

**RT** Enclosed Processes

**RT** Hazards

**RT** Leak Detection Systems

**RT** Leaks

**RT** Management of Migrations

**RT** Mobile Sources

**RT** PCB Transformer Rupture

**RT** Release Detection

**RT** Reportable Quantities

**RT** Size Classes of Releases

**RT** Spills

**RT** Stationary Sources

**RT** Water Pollution

**SO** Compensation and Liability

**SO** Emergency Preparedness

**SO** Environmental Management

**SO** Wastes

**DEF** (DOE Order 5000.3A) Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or otherwise disposing of substances into the environment. This includes abandoning/discarding any type of receptacle containing substances, or the stockpiling of a reportable quantity of a hazardous substance in an enclosed containment structure. (EMER) Spills, leaks, emissions, discharges, escapes, leachings or disposings from an underground storage tank (UST) into groundwater, surface water, or subsurface soils. (ESH) With certain exceptions, any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers or other closed receptacles) of any hazardous substance, or CERCLA hazardous substance.

**RELEVANT AND APPROPRIATE REQUIREMENTS**

(CERCLA; CFR)

**DA** October 12, 1990

**BT1** Requirements

**SO** Compensation and Liability

**SO** Environmental Management

**DEF** Those Federal requirements that, while not "applicable," are designed to apply to problems sufficiently similar to those encountered at CERCLA sites that their application is appropriate. Requirements may be relevant and appropriate if they would be "applicable" but for jurisdictional restrictions associated with the requirement.

**RELIABILITY, AVAILABILITY, AND MAINTAINABILITY**

**DA** January 8, 1991

**SF** RAM

**RELIABILITY AND QUALITY ASSURANCE**

(SSDC)

**DA** October 12, 1990

**SY** Quality Assurance

**SF** R&QA

**SO** System Safety Development Center Glossary

**DEF** (SSDC) See Quality Assurance. Involves all those planned and systematic actions necessary to provide adequate confidence that

a facility, structure, system, or component will perform satisfactorily and safely in service.

**RELIABILITY-CENTERED MAINTENANCE**

(DOE Order 4330.4A)

**DA** June 5, 1991

**SF** RCM

**BT1** Maintenance

**BT2** Activities

**RT** Failures

**RT** Safety

**SO** Management

**DEF** (DOE Order 4330.4A) A maintenance system that determines the most effective maintenance activity, based on an analysis of an items failure modes, failure rates, and the importance of the item to the safety operation of the facility.

**RELIEF VALVE DISCHARGE**

(CAA; CFR)

**DA** October 12, 1990

**BT1** Discharges

**RT** Overpressure

**RT** Relief Valves

**SO** Air Pollution

**DEF** Any nonleak discharge through a relief valve. Relief valve discharge does not include discharges ducted to a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66.

**RELIEF VALVES**

(CAA; CFR)

**DA** October 12, 1990

**BT1** Valves

**BT2** Devices

**NT1** Emergency Relief Valve

**NT1** Inadvertently Opened Relief Valve

**NT1** Power Operated Relief Valve

**NT1** Safety/Relief Valve

**NT1** Stuck-Open Relief Valve

**RT** Open Ended Valve

**RT** Pressure Releases

**RT** Relief Valve Discharge

**RT** Sudden Releases of Pressure

**SO** Air Pollution

**DEF** Pressure relief devices including pressure relief valves, rupture disks, and other pressure relief systems used to protect process components from overpressure conditions. "Relief valve" does not include polymerization shortstop systems, refrigerated water systems or control valves, or other devices used to control flow to an incinerator or other air pollution control device.

**REM (Radiation Exposure Module)**

DA October 12, 1990  
 SEE Radiation Exposure Module  
 SO Acronyms  
 SO Radiation

**REM (Roentgen Equivalent Man)**

DA October 12, 1990  
 SEE Roentgen Equivalent Man  
 SO Acronyms  
 SO Construction  
 SO Emergency Preparedness  
 SO Environmental Protection Agency  
 Glossary  
 SO Radiation  
 SO Water Pollution

**REMAINS OPEN**

DA January 8, 1991  
 SF *RO (Remains Open)*

**REMEDIAL ACTION ASSESSMENT SYSTEM**

DA January 8, 1991  
 SF *RAAS*  
 BT1 Systems  
 RT Assessments

**REMEDIAL ACTION PROGRAM**

DA January 8, 1991  
 SF *RAP*  
 BT1 Programs  
 NT1 Formerly Utilized Sites Remedial  
 Actions Program  
 NT1 Uranium Mill Tailings Remedial  
 Action Program

**REMEDIAL ACTIONS**

(DOE Order 5400.5; CFR; EPA)  
 DA October 12, 1990  
 SY Cleanup  
 SY Remedies  
 SY Removal Actions  
 SY Response Actions  
 SY Respond  
 SF *RA*  
 BT1 Actions  
 BT2 Responses  
 NT1 Remedial Design  
 NT1 Source Control Remedial Actions  
 NT1 Uranium Mill Tailings Remedial  
 Action  
 RT Cleanup Operations  
 RT Consent Decrees  
 RT Corrective Actions  
 RT Decommissioning  
 RT Decontamination  
 RT Primary Documents  
 RT Remedial Project Managers  
 RT Remedial Measures  
 RT Remedial Responses  
 RT Schedule of Compliance  
 RT Superfund  
 RT Superfund State Contracts  
 SO Compensation and Liability  
 SO Environmental Management  
 SO Environmental Protection Agency  
 Glossary

**SO Wastes**

DEF Those actions consistent with permanent remedy taken instead of, or in addition to, removal action in the event of a release or threatened release of a hazardous substance into the environment, to prevent or minimize the release of hazardous substances so that they do not migrate to cause substantial danger to present or future public health or welfare or the environment.

**REMEDIAL DESIGN**

(EPA)  
 DA October 12, 1990  
 SF *RD*  
 BT1 Remedial Actions  
 BT2 Actions  
 BT3 Responses  
 RT Primary Documents  
 SO Environmental Protection Agency  
 Glossary  
 DEF (EPA) A phase of remedial action that follows the remedial investigation/feasibility study and includes development of engineering drawings and specifications for a site cleanup.

**REMEDIAL INVESTIGATIONS**

(CERCLA; CFR)  
 DA October 12, 1990  
 SF *RI*  
 BT1 Investigations  
 BT2 Administrative Processes  
 BT3 Processes  
 NT1 RCRA Remedial Investigation  
 RT Endangered Assessment  
 RT Feasibility Studies  
 RT Primary Documents  
 SO Compensation and Liability  
 SO Environmental Management  
 SO Environmental Protection Agency  
 Glossary  
 DEF In-depth studies designed to gather the data necessary to determine the nature and extent of contamination at a Superfund site; establish criteria for cleaning up the site; identify preliminary alternatives for remedial actions; and support the technical and cost analyses of the alternatives. The remedial investigation is usually done with the feasibility study. Together, they are usually referred to as the "RI/FS."

**REMEDIAL INVESTIGATOR**

DA January 8, 1991  
 BT1 Personnel

**REMEDIAL MEASURES**

(IAEA)  
 DA October 12, 1990  
 BT1 Actions  
 BT2 Responses

**RT Radiation Protection**

RT Remedial Actions  
 SO Radiation  
 DEF (IAEA) Actions taken to reduce radiation doses that might otherwise be received in abnormal exposure conditions. Remedial measures are sometimes called protective actions or countermeasures.

**REMEDIAL PROJECT MANAGERS**

(CERCLA; CFR; EPA; EMER)  
 DA October 12, 1990  
 SF *RPM (Remedial Project Manager)*  
 BT1 Personnel  
 BT1 Project Managers  
 BT2 Personnel  
 RT Remedial Actions  
 RT Support Agencies  
 SO Compensation and Liability  
 SO Emergency Preparedness  
 SO Environmental Management  
 SO Environmental Protection Agency  
 Glossary  
 DEF (EMER) EPA or state officials responsible for overseeing remedial action at a site.

**REMEDIAL RESPONSES**

(EPA)  
 DA October 12, 1990  
 BT1 Responses  
 RT Remedial Actions  
 SO Environmental Protection Agency  
 Glossary  
 DEF (EPA) Long-term actions that stop or substantially reduce a release or threat of a release of hazardous substances that is serious but not an immediate threat to public health.

**REMEDIES**

(CERCLA; CFR; USC)  
 DA October 19, 1990  
 SY Remedial Actions  
 SY Respond  
 BT1 Actions  
 BT2 Responses  
 RT Primary Documents  
 SO Compensation and Liability  
 DEF As defined by section 101(24) of CERCLA, means those actions consistent with permanent remedy taken instead of, or in addition to, removal action in the event of a release or threatened release of a hazardous substance into the environment, to prevent or minimize the release of hazardous substances so that they do not migrate to cause substantial danger to present or future public health or welfare or the environment.

**REMOTE DETECTION AND CONTROL**

DA January 8, 1991

SF *REDAC*  
 BT1 Controls  
 RT Remote Detection and Control Systems

#### REMOTE DETECTION AND CONTROL SYSTEMS

(NFI)  
 DA October 12, 1990  
 BT1 Control Systems  
 BT2 Controls  
 BT2 Systems  
 RT Remote Detection and Control  
 SO Radiation  
 DEF (NFI) Systems for remote monitoring and operation process variables.

#### REMOTE HANDLED

DA January 8, 1991  
 SF *RH*  
 RT Remote-Handled Transuranic Wastes

#### REMOTE-HANDLED TRANSURANIC WASTES

DA January 24, 1991  
 BT1 Transuranic Wastes (TRU Waste)  
 BT2 Radioactive Wastes  
 BT3 Wastes  
 RT Remote Handled  
 SO Environmental Management  
 DEF (DOE 5820.2A) Packaged transuranic waste whose external surface dose rate exceeds 200 mrem per hour. Test specimens of fissionable material irradiated for research and development purposes only and not for the production of power or plutonium may be classified as remote-handled transuranic waste.

#### REMOTE INTERROGATION POINTS

(DOE Order 6430.1A)  
 DA October 12, 1990  
 BT1 Sites/Areas  
 SO Construction  
 DEF (DOE Order 6430.1A) Locations for receiving information (e.g., printouts) transmitted by automatic data processing centers.

#### REMOVAL

(EPA; USC; CFR; ESH)  
 DA January 16, 1991  
 SY Respond  
 BT1 Strip  
 BT2 Processes  
 BT1 Waste Management Processes  
 BT2 Processes  
 NT1 Dredging  
 RT Cleanup  
 RT Planned Renovation Operations  
 RT Spills  
 SO Compensation and Liability  
 SO Environmental Management  
 SO Hazardous Materials  
 DEF The cleanup or removal of released

hazardous substances from the environment; such actions as may be necessary taken in the event of the threat of release of hazardous substances into the environment; such actions may be necessary to monitor, assess, and evaluate the release or threat of release of hazardous substances, the disposal of removed material, or the taking of such other actions as may be necessary to prevent, minimize, or mitigate damage to the public health or welfare or to the environment, which may otherwise result from a release or threat of release.

#### REMOVAL ACTIONS

(EPA)  
 DA October 12, 1990  
 SY Cleanup  
 SY Remedial Actions  
 SY Response Actions  
 SY Respond  
 BT1 Actions  
 BT2 Responses  
 RT Response Actions  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Short-term immediate actions taken to address releases of hazardous substances that require expedited response.

#### REMOVAL SITE EVALUATIONS

(EPA)  
 DA May 16, 1991  
 SF *RSE*

#### RENOVATION

(CAA; CFR)  
 DA October 12, 1990  
 BT1 Administrative Processes  
 BT2 Processes  
 NT1 Emergency Renovation Operations  
 RT Asbestos-Containing Waste Materials  
 RT Demolition  
 RT Strip  
 SO Air Pollution  
 SO Environmental Management  
 DEF Altering in any way one or more facility components. Operations in which load-supporting structural members are wrecked or taken out are excluded.

#### REPAIR/CONSTRUCTION

**PERSONNEL**  
 DA November 29, 1990  
 BT1 Occupations  
 BT1 Personnel  
 NT1 Carpenter  
 NT1 Electrician  
 NT1 Mason  
 NT1 Mechanic/Repairer  
 NT1 Miner/Driller

NT1 Misc Repair/Construction Employee  
 NT1 Painter  
 NT1 Pipe Fitter  
 SO DOE FRASE VOCABULARY

#### REPLACEMENT

(CERCLA)  
 DA November 15, 1990  
 SY Acquisition of the Equivalent  
 BT1 Actions  
 BT2 Responses  
 RT National Contingency Plan  
 DEF (CERCLA) The substitution for an injured resource with a resource that provides the same or substantially similar services, when such substitutions are in addition to any substitutions made or anticipated as part of response actions and when such substitutions exceed the level of response actions determined appropriate to the site pursuant to the National Contingency Plan (NCP).

#### REPLACEMENT VALUES

(SSDC)  
 DA October 12, 1990  
 BT1 Costs  
 RT Actual Cash Value  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The costs to replace something with like kind, quality, and capacity.

#### REPLICATE SAMPLES

(ESH)  
 DA October 12, 1990  
 BT1 Samples  
 RT Aliquots  
 SO Quality Assurance  
 DEF (ESH) Samples prepared by dividing a sample into two or more separate aliquots. Laboratory duplicate sample are considered to be two replicates.

#### REPORT OF DISCREPANCY

DA January 8, 1991  
 SF *ROD (Report of Discrepancy)*  
 BT1 Reports

#### REPORTABLE OCCURRENCES

(DOE Order 5000.3A)  
 DA December 14, 1990  
 BT1 Occurrences  
 NT1 Emergencies  
 NT2 Abnormal Exposure Conditions  
 NT2 Bomb Incidents  
 NT2 Bomb Threats  
 NT2 Emergency Situations  
 NT2 Energy Emergencies  
 NT2 General Emergencies  
 NT2 Hazardous Materials Emergencies  
 NT2 National Emergencies  
 NT2 Natural Phenomena Emergencies

- NT2 Operational Emergencies
- NT2 Safeguards and Security Emergencies
- NT3 Safeguards and Security Alerts
- NT4 Alpha
- NT4 Bravo
- NT4 Charlie
- NT4 Safeguards and Security Alert I (Code Designator: Alpha)
- NT4 Safeguards and Security Alert II (Code Designator: Bravo)
- NT4 Safeguards and Security Alert III (Code Designator: Charlie)
- NT3 Special Nuclear Materials Emergencies
- NT2 Site Emergencies
- NT2 Threats
- NT3 Bomb Threats
- NT3 Covert Threats
- NT3 Nuclear Threat Incidents
- NT3 Terrorist Threats
- NT1 Off Normal Occurrences
- NT1 Officially Reportable Events
- NT1 Unusual Occurrences
- RT Reports
- DEF (DOE Order 5000.3A) Events or conditions to be reported in accordance with the criteria defined in DOE Order 5000.3A.

**REPORTABLE QUANTITIES**

- (DOE Order 5000.3A; SWDA; RCRA; CERCLA; ESH; EMER)
- DA October 12, 1990
- SF RQ
- BT1 Quantities
- RT CERCLA Hazardous Substances
- RT Hazardous Materials
- RT Releases
- RT Reports
- RT Significant Quantities
- RT Spills
- RT Threshold Planning Quantities
- SO Compensation and Liability
- SO Emergency Preparedness
- SO Environmental Management
- SO Environmental Protection Agency Glossary
- SO Hazardous Materials
- DEF (DOE Order 5000.3A) For any CERCLA hazardous substance, the quantity established in Table 302.4 and Appendix B of 40 CFR Part 302, the release of which requires notification unless federally permitted. (EMER) Quantities of a hazardous substance that trigger reports under CERCLA. If a substance is released in amounts exceeding its reportable quantity (RQ), the release must be reported to the National Response Center, the State Emergency Response Commission (SERC), and community emergency coordinators for areas likely to be affected.

**REPORTED SIGNIFICANT OBSERVATIONS**

- (SSDC)
- DA October 12, 1990
- SF RSO (Reported Significant Observations)
- RT Critical Incident Technique
- RT Industrial Safety
- RT Reports
- SO System Safety Development Center Glossary
- DEF (SSDC) A means of obtaining feedback from the work level on things that could contribute to an accident situation. Questionnaires are used to obtain reports on these observations. Similar to Critical Incident Technique.

**REPORTS**

- DA February 4, 1991
- NT1 Accreditation Maintenance Reports
- NT1 Activity Data Sheets
- NT1 Advisory
- NT1 Annual Document Logs
- NT1 Annual Reports
- NT1 Annual Site Environmental Reports
- NT1 Biological Opinion
- NT2 Preliminary Biological Opinion
- NT1 Conceptual Design Report
- NT1 Contractor Self-Evaluation Reports
- NT1 Emergency and Hazardous Chemical Inventory Forms
- NT1 Enforcement Decision Documents
- NT1 Environmental Information Documents
- NT1 EPA Guidance Document
- NT1 Fire Hazard Analysis Report
- NT1 Internal Security Reports
- NT1 Investigation Report
- NT1 Licensee Event Report
- NT1 Material Nonconformance Report
- NT1 Monthly NEPA Reports
- NT1 National Environmental Policy Act Documents
- NT2 Programmatic NEPA Documents
- NT2 Site-Wide NEPA Documents
- NT1 NEPA Status Reports
- NT1 Non-Conformance Report
- NT1 Occurrence Reports
- NT2 Unusual Occurrence Reports
- NT1 Plugging Records
- NT1 Primary Documents
- NT2 Secondary Documents
- NT1 Quarterly Environmental Compliance Reports
- NT1 Red Borders
- NT1 Registration Standards
- NT1 Report of Discrepancy
- NT1 Safety Analysis Reports
- NT2 Final Safety Analysis Report
- NT2 Preliminary Safety Analysis Report
- NT2 Updated Final Safety Analysis Report
- NT1 Safety Documents
- NT1 Safety Evaluation Report
- NT1 Tiger Team Assessment Reports
- NT1 Toxic Chemical Release Forms
- RT Annual Document Logs

- RT Computerized Accident/Incident Reporting System
- RT Failure Reporting Analysis and Corrective Action System
- RT Manifest Document Number
- RT Officially Reportable Events
- RT Reportable Quantities
- RT Reported Significant Observations
- RT Reportable Occurrences

**REPOSITORIES**

- (DOE Order 5820.2A; ANL;)
- DA May 24, 1991
- BT1 Disposal Facilities
- BT2 Hazardous Waste Management Facilities
- BT3 Hazardous Waste Facilities
- BT4 Facilities
- RT Transuranic Wastes (TRU Waste)
- DEF (DOE 5820.2A) Facilities for the permanent deep geological disposal of High Level or Transuranic Waste.

**REPRESENTATIVE SAMPLES**

- (SWDA; RCRA)
- DA October 12, 1990
- BT1 Samples
- SO Environmental Management
- SO Wastes
- DEF Samples of a universe or whole (e.g., waste pile, lagoon, groundwater) which can be expected to exhibit the average properties of the universe or whole.

**REPROCESSING**

- (IAEA)
- DA October 12, 1990
- BT1 Processes
- RT Fission Products
- RT Transuranic Elements
- SO Radiation
- DEF The dissolution of spent reactor fuel and separation of uranium, transuranic elements, and fission products. (IAEA) The processing of nuclear fuel (material), after its use in a reactor, to recover valuable material and to remove fission products.

**REQUIRED STRENGTH**

- (DOE Order 6430.1A)
- DA October 12, 1990
- BT1 Strength
- RT Structural Members
- SO Construction
- DEF (DOE Order 6430.1A) Required strength to resist factored loads or related internal moments and forces.

**REQUIREMENTS**

- (TSCA; CFR)
- DA October 19, 1990
- NT1 Anti-Degradation Clause
- NT1 Constraints

NT1 Emission Limitation  
 NT1 Emission Standards  
   NT2 National Emissions Standards for Hazardous Air Pollutants  
   NT2 New Source Performance Standards  
 NT1 General Design Criteria  
 NT1 Land Disposal Restrictions  
 NT1 Minimum Requirements and Standards  
 NT1 Operational Safety Requirements  
 NT1 Relevant and Appropriate Requirements  
 NT1 Specifications  
   NT2 Contract Specifications  
   NT2 Guide Specifications  
   NT2 Operational Specifications  
   NT2 Project Design Criteria  
   NT2 Technical Specifications  
 NT1 Standard of Performance  
 NT1 Testing Requirements Rule  
 NT1 Testing Requirements  
 NT1 Treatment Technique Requirements  
 RT Approvals Necessary to Begin Physical Construction  
 RT Concepts and Requirements  
 RT Graded Approach  
 RT Licenses  
 RT Procedures  
 SO Hazardous Materials  
 DEF (WTID) Something called for or demanded: a requisite or essential condition.

REF  
 DA October 12, 1990  
 SEE Rod Equipment Room  
 SO Acronyms

**REREGISTRATIONS**  
 (EPA)  
 DA October 12, 1990  
 BT1 Registration  
 RT Pesticides  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) The reevaluation and relicensing of existing pesticides originally registered prior to current scientific and regulatory standards. EPA reregisters pesticides through its Registration Standards Program.

RES  
 DA October 12, 1990  
 SEE NRC Office of Nuclear Regulatory Research  
 SO Acronyms

RESC  
 DA October 12, 1990  
 SEE Reactor Subcriticality  
 SO Acronyms

**RESEARCH, DEVELOPMENT, DEMONSTRATION, TESTING AND EVALUATION**  
 DA January 10, 1991

SF *RDDT&E*  
 BT1 Activities  
**RESEARCH & DEVELOPMENT LABORATORY**  
 (1805 R&D LABORATO)  
 DA December 10, 1990  
 BT1 Building (DOE FRASE Vocabulary)  
   BT2 Facilities and Buildings (DOE FRASE Vocabulary)  
   BT3 Facilities  
 BT1 Laboratories  
   BT2 Research and Development Organizations  
   BT3 Organizations  
 SO DOE FRASE VOCABULARY

**RESEARCH AND DEVELOPMENT (CFR)**  
 DA January 8, 1991  
 SF *R&D*  
 BT1 Activities  
 NT1 Applied Research  
 NT1 Basic Research  
 RT Small Quantities for Research and Development  
 SO Environmental Management  
 DEF (CFR) (a) Theoretical analysis, exploration, or experimentation; or (b) the extension of investigative findings and theories of a scientific or technical nature into practical application for experimental and demonstration purposes, including the experimental production and testing of models, devices, equipment, materials, and processes. Research and development does not include the internal or external administration of radiation of radioactive material to human beings.

**RESEARCH AND DEVELOPMENT ORGANIZATIONS**  
 DA February 5, 1991  
 BT1 Organizations  
 NT1 American National Metric Council  
 NT1 American Nuclear Society  
 NT1 Foundations  
   NT2 Hanford Environmental Health Foundation  
   NT2 Lovelace Medical Foundation  
   NT2 University of Georgia Research Foundation, Inc.  
 NT1 Institutes  
   NT2 American National Standards Institute  
   NT2 American Petroleum Institute  
   NT2 Battelle Memorial Institute  
   NT2 Electric Power Research Institute  
   NT3 Nuclear Safety Analysis Center  
   NT2 Inhalation Toxicology Research Institute  
   NT2 Institute of Electrical and Electronic Engineers  
   NT2 Institute for Nuclear Power Operations  
   NT2 Midwest Research Institute

NT2 National Institute for Occupational Safety and Health  
 NT2 National Institute of Standards and Testing  
 NT1 Laboratories  
   NT2 Argonne National Laboratory  
   NT3 Argonne National Laboratory-East (Chicago)  
   NT3 Argonne National Laboratory-West (At INEL)  
   NT2 Argonne National Laboratory-East (Chicago)  
   NT2 Argonne National Laboratory-West (At INEL)  
   NT2 Battelle Columbus Laboratories  
   NT2 Brookhaven National Laboratory  
   NT2 Idaho National Engineering Laboratory  
   NT3 Power Burst Facility  
   NT2 Laboratory for Energy-Related Health Research  
   NT2 Lawrence Livermore National Laboratory  
   NT2 Lawrence Berkeley Laboratory  
   NT2 Los Alamos National Laboratory  
   NT2 Nationally Recognized Testing Laboratories  
   NT2 Oak Ridge National Laboratory  
   NT2 Pacific Northwest Laboratory  
   NT2 Performance Testing Laboratories  
   NT2 Research & Development Laboratory  
   NT2 Sandia National Laboratories  
   NT3 Sandia National Laboratories-Albuquerque  
   NT3 Sandia National Laboratories-Livermore  
 NT1 National Academy of Sciences  
 NT1 Oak Ridge Associated Universities  
 NT1 Southeastern Universities Research Association, Inc.  
 RT Administrative Organizations  
 RT Commercial Organizations  
 RT Educational Organizations

**RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION**  
 (SWDA; RCRA; ESH)  
 DA October 12, 1990  
 SF *RSPA*  
 BT1 U.S. Department of Transportation  
   BT2 Federal Agencies  
   BT3 Agencies  
   BT4 Administrative Organizations  
   BT5 Organizations  
 RT Programs  
 SO Hazardous Materials

**RESEARCH/TESTING ACTIVITY (1242 RT ACTIVITY)**  
 DA November 28, 1990  
 BT1 Activity Types (DOE FRASE Vocabulary)  
   BT2 Activities  
   RT Scientist  
   RT Test Area  
   RT Test Reactor Facility  
   RT Testing Equipment  
   RT Transient Test  
 SO DOE FRASE VOCABULARY

**RESERVOIR ROUTING**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 RT Reservoirs  
 SO Construction  
 DEF (DOE Order 6430.1A) A technique used in hydrology to compute the effect of reservoir inflow on reservoir outflow.

**RESERVOIRS**

(EPA)  
 DA October 12, 1990  
 BT1 Impoundment  
 BT2 Sites/Areas  
 RT Reservoir Routing  
 RT Water  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Natural or artificial holding areas used to store, regulate, or control water.

**RESET DEVICE**

(2416 RESET DEVICE)  
 DA January 3, 1991  
 BT1 Devices  
 BT1 Equipment/Parts - Electrical (DOE FRASE Vocabulary)  
 BT2 Equipment  
 SO DOE FRASE VOCABULARY

**RESIDENT SPECIES**

(ESA; CFR)  
 DA October 12, 1990  
 BT1 Species  
 SO Endangered Species  
 DEF For purposes of these regulations, with respect to a State, a species that exists in the wild in that State during any part of its life.

**RESIDENTIAL AREAS**

(CFR)  
 DA November 9, 1990  
 BT1 Sites/Areas  
 RT Commercial Areas  
 RT High-Contact Residential Surfaces  
 RT High-Contact Commercial Surfaces  
 RT Non-Restricted Access Areas  
 DEF (CFR) Those areas where people live or reside. Residential areas include housing and the property on which housing is located, as well as playgrounds, roadways, sidewalks, parks, and other similar areas within a residential community.

**RESIDENTIAL SOLID WASTES**

DA January 29, 1991  
 BT1 Solid Wastes  
 BT2 Wastes  
 SO Environmental Management  
 DEF (CFR) Garbage, rubbish, trash, and other solid waste resulting from the normal activities of households.

**RESIDENTIAL TANKS**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Tanks  
 BT2 Facility Components  
 SO Wastes  
 DEF A tank located on property used primarily for dwelling purposes.

**RESIDUAL**

(EPA)  
 DA October 12, 1990  
 RT Treatment  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Amount of a pollutant remaining in the environment after a natural or technological process has taken place, e.g., the sludge remaining after initial wastewater treatment, or particulates remaining in air after the air passes through a scrubbing or process.

**RESIDUAL DISINFECTANT CONCENTRATION**

(SWDA; CFR)  
 DA October 12, 1990  
 RT CT (Public Water Disinfection Formula)  
 RT CTcalc  
 RT Disinfectant Contact Time  
 RT Disinfection  
 RT Water Quality Criteria  
 SO Water Pollution  
 DEF The concentration of disinfectant measured in mg/l in a representative sample of water.

**RESIDUAL HEAT REMOVAL**

DA January 8, 1991  
 SF RHR

**RESIDUAL RADIOACTIVE MATERIALS**

(DOE Order 5400.5)  
 DA October 12, 1990  
 BT1 Radioactive Materials  
 BT2 Materials  
 SO Wastes  
 DEF (DOE Order 5400.5) Radioactive materials that are in or on soil, air, equipment, or structures as a consequence of past operations or activities.

**RESIDUAL RISKS**

(SSDC)  
 DA October 12, 1990  
 SY Acceptable Risks  
 BT1 Risks  
 SO System Safety Development Center Glossary  
 DEF (SSDC) Risks remaining after the application of resources for prevention or mitigation.

**RESIDUES**

(SWDA; RCRA; ESH)

DA October 12, 1990  
 BT1 Hazardous Materials  
 BT2 Materials  
 NT1 Wood Residues  
 SO Hazardous Materials  
 DEF Hazardous material remaining in a packaging, including a tank car, after its contents have been unloaded to the maximum extent practicable and before the packaging is either refilled or cleaned of hazardous material and purged to remove any hazardous vapors.

**RESIN GRADE**

(CAA; CFR)  
 DA October 12, 1990  
 NT1 Types of Resin  
 NT2 Bulk Resins  
 NT2 Dispersion Resins  
 NT2 Latex Resins  
 RT Types of Resin  
 SO Air Pollution  
 DEF (CFR) The subdivision of resin classification which describes it as a unique resin, i.e., the most exact description of a resin with no further subdivision.

**RESISTOR(S)**

(2417 RESISTOR)  
 DA January 3, 1991  
 BT1 Equipment/Parts - Electrical (DOE FRASE Vocabulary)  
 BT2 Equipment  
 SO DOE FRASE VOCABULARY

**RESOURCE**

(CFR; EPA)  
 DA October 12, 1990  
 SY Natural Resources  
 NT1 Recovered Resources  
 RT Resource Conservation and Recovery Act  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A person, thing, or action needed for living or to improve the quality of life.

**RESOURCE CONSERVATION**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Conservation  
 RT Comprehensive Planning  
 RT Solid Waste Planning  
 SO Environmental Management  
 SO Wastes  
 DEF Reduction of the amounts of solid waste that are generated, reduction of overall resource consumption, and utilization of recovered resources.

**RESOURCE CONSERVATION AND RECOVERY ACT**

(RCRA; EMER)  
 DA January 10, 1991

SF RCRA  
 BT1 Acts  
 BT2 Statutes and Regulations  
 BT1 Appropriate Act and Regulations  
 RT Conservation  
 RT Recovery  
 RT Resource  
 SO Emergency Preparedness  
 DEF (RCRA) To promote the protection of health and the environment and to conserve valuable material and energy resources.

**RESOURCE RECOVERY**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Pollution Recovery Processes  
 BT2 Processes  
 NT1 Reclamation  
 NT2 Land Reclamation  
 NT2 Refuse Reclamation  
 NT1 Solid Waste Planning  
 RT Comprehensive Planning  
 RT Recovered Resources  
 RT Resource Recovery Systems  
 RT Resource Recovery Facilities  
 SO Environmental Management  
 SO Environmental Protection Agency Glossary  
 SO Wastes  
 DEF The process of obtaining matter or energy from materials formerly discarded. The recovery of material or energy from solid waste.

**RESOURCE RECOVERY FACILITIES**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Facilities  
 RT Resource Recovery  
 RT Resource Recovery Systems  
 RT Solid Waste Management Facilities  
 SO Environmental Management  
 SO Wastes  
 DEF Any facilities at which solid waste is processed for the purpose of extracting, converting to energy, or otherwise separating and preparing solid waste for reuse.

**RESOURCE RECOVERY SYSTEMS**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Systems  
 RT Resource Recovery  
 RT Resource Recovery Facilities  
 RT Solid Waste Management Facilities  
 SO Environmental Management  
 SO Wastes  
 DEF Solid waste management systems which provide collection, separation, recycling, and recovery of solid wastes, including disposal of nonrecoverable waste residues.

**RESPIRATOR(S)**

(2679 RESPIRATOR)  
 DA January 3, 1991

BT1 Personal Protective Equipment  
 BT2 Equipment/Parts - Personal Protective (DOE FRASE Vocabulary)  
 BT3 Equipment  
 SO DOE FRASE VOCABULARY

**RESPIRATORY SYSTEM**

(1145 RESP SYSTEM)  
 DA November 28, 1990  
 BT1 Body System(s)  
 BT2 Human Body Parts  
 NT1 Bronchial Epithelium  
 NT1 Nose  
 NT1 Throat  
 RT Chest  
 RT Cond of Respiratory Sys. Non-Toxic  
 RT Upper Respiratory Condition  
 RT Upper Respiratory Disease  
 SO DOE FRASE VOCABULARY

**RESPOND**

(CERCLA; CFR)  
 DA November 15, 1990  
 SY Remedial Actions  
 SY Remedies  
 SY Removal  
 SY Removal Actions  
 SY Response Actions  
 SY Responses  
 DEF As defined by section 101(25) of CERCLA, remove, removal, remedy, or remedial action.

**RESPONSE ACTIONS**

(TSCA; CFR; EPA; EMER)  
 DA October 12, 1990  
 SY Cleanup  
 SY Remedial Actions  
 SY Removal Actions  
 SY Respond  
 BT1 Actions  
 BT2 Responses  
 NT1 Operable Units  
 RT Action Levels  
 RT Removal Actions  
 SO Environmental Protection Agency Glossary  
 SO Hazardous Materials  
 DEF (EMER) CERCLA-authorized actions involving either a short-term removal action or a long-term removal response that may include but is not limited to: removing hazardous materials from a site to an EPA-approved hazardous waste facility for treatment, containment, or destruction; containing the waste safely on-site; destroying or treating the waste on-site; and identifying and removing the source of groundwater contamination and halting further migration of contaminants. (See: Cleanup). Methods that protect human health and the environment from asbestos-containing material. Such methods include methods described in chapters 3 and 5 of

the Environmental Protection Agency's "Guidance for Controlling Asbestos-Containing Materials in Buildings."

**RESPONSE SPECTRUM**

DA January 24, 1991  
 BT1 Time Designations  
 SO Environmental Management  
 DEF (CFR) The time interval from a step change in the input concentration at the instrument inlet to a reading of 90 percent (nominally equivalent to 2.2 time constants) of the ultimate record output.

**RESPONSE TEAMS**

DA February 14, 1991  
 BT1 Teams  
 BT2 Administrative Organizations  
 BT3 Organizations  
 NT1 Airborne Response Teams  
 NT1 Emergency Support Teams  
 NT1 Emergency Response Teams  
 NT1 Energy Emergency Teams  
 NT1 Environmental Response Teams  
 NT1 Explosive Ordnance Disposal Teams  
 NT1 Hazardous Materials Response Teams  
 NT1 Hostage Negotiation Teams  
 NT1 National Response Teams  
 NT1 Nuclear Emergency Search Teams  
 NT1 Radiological Assistance Teams  
 NT1 Regional Response Teams  
 NT1 Special Response Teams  
 NT1 Tactical Response Teams

**RESPONSE TIME**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 BT1 Time Designations  
 RT Fire Protection Systems  
 SO Construction  
 DEF (DOE Order 6430.1A) This term when used to specify performance of a rapid action deluge fire protection system represents the elapsed time between the initiation of the incident and water application to the material being protected.

**RESPONSES**

(CERCLA; CFR; EMER)  
 DA November 15, 1990  
 SY Respond  
 NT1 Actions  
 NT2 Agency Actions  
 NT2 Alternative Courses of Action  
 NT2 Assessment Actions  
 NT2 Automatic Incident Actions  
 NT2 Categorical Exclusions  
 NT2 Corrective Actions  
 NT2 Emergency Actions  
 NT2 Incident Actions  
 NT2 Interim Actions  
 NT2 Proposed Actions  
 NT2 Protective Actions

**NT3** Denials  
**NT2** Reasonable and Prudent Alternatives  
**NT2** Reasonable and Prudent Measures  
**NT2** Recovery Actions  
**NT2** Remedial Actions  
**NT3** Remedial Design  
**NT3** Source Control Remedial Actions  
**NT3** Uranium Mill Tailings Remedial Action  
**NT2** Remedial Measures  
**NT2** Remedies  
**NT2** Removal Actions  
**NT2** Replacement  
**NT2** Response Actions  
**NT3** Operable Units  
**NT2** Restoration  
**NT1** Emergency Response  
**NT1** Limited Responses  
**NT1** Post Emergency Responses  
**NT1** Remedial Responses  
**RT** Compensation and Liability  
**RT** Recommendations  
**SO** Emergency Preparedness  
**DEF** (EMER) As defined by section 101(25) of CERCLA, removing, removals, remedies, or remedial actions. (ESH) Any actions taken to remove, remedy, or clean up releases of hazardous substances.

**RESPONSIBLE PARTIES**

(TSCA; CFR)  
**DA** October 12, 1990  
**NT1** Operators  
**NT1** Owners  
**RT** PCB Equipment  
**RT** Polychlorinated Biphenyls  
**RT** Potentially Responsible Parties  
**SO** Hazardous Materials  
**DEF** Owners of the PCB equipment, facility, or other source of PCBs or his/her designated agent (e.g., a facility manager or foreman).

**REST ROOM**

(1712 REST ROOM)  
**DA** December 10, 1990  
**BT1** Room  
**BT2** Sites/Areas  
**SO** DOE FRASE VOCABULARY

**RESTAURANT**

(1789 RESTAURANT)  
**DA** December 10, 1990  
**BT1** Building (DOE FRASE Vocabulary)  
**BT2** Facilities and Buildings (DOE FRASE Vocabulary)  
**BT3** Facilities  
**RT** Cafeteria  
**RT** Eating Area  
**SO** DOE FRASE VOCABULARY

**RESTORATION**

(CFR; EPA)  
**DA** October 12, 1990  
**BT1** Actions  
**BT2** Responses

**SO** Environmental Protection Agency Glossary  
**DEF** (EPA) Actions undertaken to return an injured resource to its baseline condition, as measured in terms of the injured resource's physical, chemical, or biological properties or the services it previously provided, when such actions are in addition to response actions completed or anticipated, and when such actions exceed the level of response actions determined appropriate to the site pursuant to the National Contingency Plan (NCP).

**RESTRICTED AREAS**

**DA** January 24, 1991  
**BT1** Sites/Areas  
**RT** Protected Areas  
**RT** Radiation Protection  
**SO** Environmental Management  
**DEF** (CFR) Any area access to which is controlled by the licensee for purposes of protection of individuals from exposure to radiation and radioactive materials. "Restricted area" shall not include any areas used as residential quarters, although a separate room or rooms in a residential building may be set apart as a restricted area.

**RESTRICTED USE**

(EPA)  
**DA** October 12, 1990  
**BT1** Uses  
**SO** Environmental Protection Agency Glossary  
**DEF** (EPA) When a pesticide is registered, some or all of its uses may be classified under the Federal Insecticide Fungicide Rodenticide Act (FIFRA) regulations for restricted use if the pesticide requires special handling because of its toxicity. Restricted-use pesticides may be applied only by trained, certified applicators or those under their direct supervision.

**RESTRICTED-USE PESTICIDE**

(ESH)  
**DA** November 20, 1990  
**BT1** Pesticides  
**BT2** Hazardous Substances  
**DEF** (ESH) A pesticide that is classified for restricted use under the provisions of Section 3(d)(1)(C) of the Act which states: "If the Administrator determines that the pesticide, when applied in accordance with its directions for use, warnings and cautions and for the uses for which it is registered, or for one or more of such uses, or in accordance with a

widespread and commonly recognized practice, may generally cause, without additional regulatory restrictions, unreasonable adverse effects on the environment, including injury to the applicator, he shall classify the pesticide, or the particular use or uses to which the determination applies, for restricted use."

**RESTRICTION ENZYMES**

(EPA)  
**DA** October 12, 1990  
**BT1** Proteins  
**BT2** Organic Chemicals  
**BT3** Chemical Substances  
**SO** Environmental Protection Agency Glossary  
**DEF** (EPA) Enzymes that recognize certain specific regions of a long DNA molecule and then cut the DNA into smaller pieces.

**RETAILERS**

(TSCA; CFR)  
**DA** October 12, 1990  
**BT1** Commercial Organizations  
**BT2** Organizations  
**RT** Chemical Substances  
**SO** Hazardous Materials  
**DEF** A person who distributes in commerce a chemical substance, mixture, or article to ultimate purchasers who are not commercial entities.

**RETAINING WALLS**

(DOE Order 6430.1A)  
**DA** October 12, 1990  
**SO** Construction  
**DEF** (DOE Order 6430.1A) Walls designed to maintain differences in ground elevations by holding back a bank of material.

**RETENTION**

(SSDC; IAEA)  
**DA** October 12, 1990  
**RT** Body Content  
**RT** Deposition  
**RT** Uptake  
**SO** Radiation  
**SO** System Safety Development Center Glossary  
**DEF** (IAEA) The fraction of deposited material remaining in the body or in some organ of interest at any given time after deposition.

**RETORT**

(2491 RETORT)  
**DA** January 3, 1991  
**BT1** Equipment/Parts - Heating (DOE FRASE Vocabulary)  
**BT2** Equipment  
**BT1** Heating Equipment  
**SO** DOE FRASE VOCABULARY

**RETRIEVAL CONTAINMENT BUILDING**

DA January 8, 1991  
 SF *RCB*  
 BT1 Facilities

**RETROFILL**

(TSCA; CFR)  
 DA October 12, 1990  
 BT1 Waste Management Processes  
 BT2 Processes  
 RT Non-PCB Transformers  
 RT PCB Transformers  
 SO Hazardous Materials  
 DEF To remove PCB or PCB-contaminated dielectric fluid and to replace it with either PCB, PCB-contaminated, or non-PCB dielectric fluid.

**RETURN PERIOD**

(SSDC)  
 DA October 12, 1990  
 BT1 Time Designations  
 SO Construction  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The average number of years within which a given event will be equaled or exceeded.

**REUSE**

(EPA)  
 DA November 19, 1990  
 SY Recycling  
 BT1 Uses  
 NT1 Closed-Loop Recycling  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) The process of minimizing the generation of waste by recovering usable products that might otherwise become waste. Examples are the recycling of aluminum cans, waste paper, and bottles.

**REVERSE OSMOSIS**

(EPA)  
 DA October 12, 1990  
 BT1 Osmosis  
 BT2 Biological Processes  
 BT3 Processes  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A water treatment process used in small water systems by adding pressure to force water through a semipermeable membrane. Reverse osmosis removes most drinking water contaminants. Also used in wastewater treatment. Large-scale reverse osmosis plants are now being developed.

**REVIEWS**

(SSDC)  
 DA October 12, 1990  
 BT1 Administrative Processes

BT2 Processes  
 NT1 Environmental Reviews  
 NT1 Operational Readiness Reviews  
 NT1 Safety Reviews  
 NT2 Backfit Reviews  
 NT2 Independent (Safety) Reviews  
 NT1 Safety Program Reviews  
 NT1 Special Reviews  
 RT Inspection and Evaluation  
 RT Sanitary Surveys  
 SO System Safety Development Center Glossary  
 DEF (SSDC) Inspecting or examining; critical evaluations using stated criteria; "reviews" of an analysis done by others.

**REVOLVERS**

(Doe Order 5480.16)  
 DA October 12, 1990  
 BT1 Handguns  
 BT2 Small Arms  
 BT3 Firearms  
 DEF (DOE Order 5480.16) Firearms (most commonly pistols) with a cylinder of several chambers so arranged as to revolve on an axis and be discharged in succession by the same lock.

**REYNOLDS ELECTRICAL AND ENGINEERING COMPANY**

DA January 8, 1991  
 SF *REEC*  
 BT1 Companies  
 BT2 Commercial Organizations  
 BT3 Organizations  
 BT1 DOE Contractors  
 BT2 Potentially Responsible Parties  
 RT Nevada Test Site  
 RT Nevada Operations Office

**RFA**

DA October 12, 1990  
 SEE RCRA Facility Assessment  
 SO Acronyms

**RFD**

(EPA)  
 DA January 9, 1991  
 SY Reference Dose (RfD)  
 BT1 Doses  
 RT Risk Assessment  
 SO Environmental Protection Agency Glossary

**RFP**

DA October 12, 1990  
 SEE Rocky Flats Plant  
 SO Acronyms

**RG**

DA October 12, 1990  
 SEE Regulatory Guide  
 SO Acronyms

**RH**

DA October 12, 1990

SEE Remote Handled  
 SO Acronyms

**RHEOSTAT(S)**

(2418 RHEOSTAT)  
 DA January 3, 1991  
 BT1 Equipment/Parts - Electrical (DOE FRASE Vocabulary)  
 BT2 Equipment  
 SO DOE FRASE VOCABULARY

**RHR**

DA October 12, 1990  
 SEE Residual Heat Removal  
 SO Acronyms

**RI**

DA October 12, 1990  
 SEE Remedial Investigations  
 SO Acronyms

**RIB(S)**

(1111 RIB)  
 DA November 28, 1990  
 BT1 Bone(s)  
 BT2 Human Body Parts  
 BT1 Trunk  
 BT2 Human Body Parts  
 RT Chest  
 SO DOE FRASE VOCABULARY

**RIBONUCLEIC ACID**

DA November 9, 1990  
 SF *RNA*  
 BT1 Organic Chemicals  
 BT2 Chemical Substances  
 RT DNA  
 DEF A molecule that carries the genetic message from DNA to a cell's protein producing mechanisms; similar to, but chemically different from, DNA.

**RICHLAND OPERATIONS OFFICE**

DA January 11, 1991  
 BT1 Operations Offices  
 BT2 Offices  
 BT3 Administrative Organizations  
 BT4 Organizations  
 BT2 U.S. Department of Energy  
 BT3 Federal Agencies  
 BT4 Agencies  
 BT5 Administrative Organizations  
 BT6 Organizations  
 RT Battelle Memorial Institute  
 RT Hanford Environmental Health Foundation  
 RT Kaiser Engineers Hanford, Co.  
 RT Westinghouse Hanford Company  
 DEF (Capsule Review of DOE Research and Development and Field Facilities, 1986) The Richland Operations Office, established in 1943 as the Manhattan Project Plutonium Production Facility, has several current missions. The Office manages the 562-square mile Hanford Site where a broad range of nuclear and non-nuclear

energy programs are conducted under all DOE Secretarial Offices. The Office provides continuing operation of nuclear production, chemical processing and waste management programs, including interim storage and ultimate disposal of high-level radioactive wastes, and manages advanced reactor development programs. The Office manages programs for facilities and site services and provide administrative and policy guidance to several operating and support service contractors.

**RICHTER MAGNITUDE (M<sub>L</sub>)**

(USGS)  
 DA October 12, 1990  
 SY Local Magnitude (M<sub>L</sub>)  
 RT Earthquake Magnitude  
 SO Natural Phenomenon  
 DEF (USGS) The logarithm, to the base 10, of the amplitude in micrometers of the maximum amplitude of seismic waves that would be observed on a standard torsion seismograph at a distance of about 60 miles from the epicenter. Also called the local magnitude.

**RIFLES**

(DOE Order 5480.16)  
 DA October 12, 1990  
 BT1 Small Arms  
   BT2 Firearms  
 NT1 Automatic Rifles  
 SO Firearms  
 DEF Firearms fired from the shoulder, as distinct from artillery and pistols.

**RIG**

DA October 12, 1990  
 SEE Risk-Based Inspection Guide  
 SO Acronyms

**RIM**

DA October 12, 1990  
 SEE Relative Importance Measure  
 SO Acronyms

**RINGLEMANN CHART**

(EPA)  
 DA October 12, 1990  
 BT1 Diagrams  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A series of shaded illustrations used to measure the opacity of air pollution emissions. The chart ranges from light grey through black and is used to set and enforce emissions standards.

**RIPARIAN HABITATS**

(EPA)  
 DA October 12, 1990  
 BT1 Habitats

SO Environmental Protection Agency Glossary  
 DEF (EPA) Areas adjacent to rivers and streams that have a high density, diversity, and productivity of plant and animal species relative to nearby uplands.

**RIPARIAN RIGHTS**

(EPA)  
 DA October 12, 1990  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Entitlement of a land owner to the water on or bordering his property, including the right to prevent diversion or misuse of upstream waters. Generally, a matter of state law.

**RISK ANALYSIS**

(SSDC)  
 DA October 12, 1990  
 SY Risk Assessment  
 BT1 Analyses  
   RT Performance Assessments  
   RT Risk Assessment  
   RT Risk Management  
   RT Risks  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The quantification of the degree of risk.

**RISK ASSESSMENT**

(SSDC)  
 DA October 12, 1990  
 SY Risk Analysis  
 BT1 Assessments  
   BT2 Administrative Processes  
   BT3 Processes  
 NT1 Probabilistic Risk Assessment  
 RT Acute Effects  
 RT Carcinogen Risk Assessment Verification Endeavor Workgroup  
 RT Corrective Action Triggers  
 RT Derived Projection  
 RT Extreme Value Projection  
 RT Frequency/Severity  
 RT Goals  
 RT Implementation  
 RT Integrated Risk Information System  
 RT Management System Factors  
 RT Policies  
 RT Probability  
 RT Radioactive Source Terms  
 RT RFD  
 RT Risk Analysis  
 RT Risk Management  
 RT Risks  
 RT Safety Program Reviews  
 RT Special Reviews  
 RT Testing Requirements  
 RT Vulnerability Analyses  
 SO Environmental Protection Agency Glossary  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The qualitative and quantitative evaluation performed

in an effort to define the risk posed to human health and/or the environment by the presence or potential presence and/or use of specific pollutants.

**RISK-BASED INSPECTION GUIDE**

DA January 8, 1991  
 SF RIG

**RISK COMMUNICATION**

(EPA)  
 DA October 12, 1990  
 RT Public Hearings  
 RT Public Affairs (Personnel)  
 RT Public Information Officers  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) The exchange of information about health or environmental risks between risk assessors, risk managers, the general public, news media, interest groups, etc.

**RISK MANAGEMENT**

(SSDC)  
 DA October 12, 1990  
 BT1 Management  
 RT Advisory  
 RT Risk Analysis  
 RT Risk Assessment  
 RT Risks  
 SO Environmental Protection Agency Glossary  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The process of evaluating alternative regulatory and nonregulatory responses to risk and selecting among them. The selection process necessarily requires the consideration of legal, economic, and social factors.

**RISK RETENTION GROUP**

(CERCLA)  
 DA October 12, 1990  
 BT1 Groups  
   BT2 Administrative Organizations  
   BT3 Organizations  
 RT Pollution Liability  
 SO Compensation and Liability  
 DEF (CERCLA) Any corporation or other limited liability association taxable as a corporation, or as an insurance company, formed under the laws of any State- (A) whose primary activity consists of assuming and spreading all, or any portion, of the pollution liability of its group members; (B) which is organized for the primary purpose of conducting the activity described under subparagraph (A); (C) which is chartered or licensed as an insurance company and authorized to engage in the business of insurance under the laws of any State; and (D) which

does not exclude any person from membership in the group solely to provide for members of such a group a competitive advantage over such a person.

**RISKS**

(DOE Orders 5480.5, 5480.6, and 5481.1B; ESH)  
 DA October 12, 1990  
**NT1** Acceptable Risks  
**NT1** Assigned Risks  
**NT1** Assumed Risks  
**NT1** Detriment  
**NT1** Improved Risk  
**NT1** Intangible Risks  
**NT1** Perceived Risks  
**NT1** Residual Risks  
**NT1** Undue Risks  
**RT** Exposure  
**RT** Insurance  
**RT** Probability  
**RT** Risk Analysis  
**RT** Risk Assessment  
**RT** Risk Management  
**RT** Safe  
**RT** Safety  
**RT** Weighting Factors  
**SO** Environmental Management  
**SO** Industrial Safety  
**SO** Management  
**SO** Radiation  
**SO** System Safety Development Center Glossary  
**DEF** Quantitative or qualitative expressions of possible loss which consider both the probability that a hazard will cause harm and the consequences of that event.

**RIVER BASINS**

DA November 9, 1990  
**BT1** Sites/Areas  
**RT** Watershed  
**DEF** Land areas drained by a river and its tributaries.

**RIVER WATER**

DA January 8, 1991  
**SF** *RW (River Water)*  
**BT1** Surface Waters  
**BT2** Water

**RIVER/CREEK**

(1617 RIVER)  
 DA December 10, 1990  
**BT1** Surface Water Resources  
**BT2** Natural Resources  
**RT** Body of Water  
**SO** DOE FRASE VOCABULARY

**RL**

DA October 12, 1990  
**SO** Acronyms

**RMCG**

DA October 12, 1990  
**SEE** Reactor Materials Control Group  
**SO** Acronyms

**RMCL**

DA October 12, 1990  
**SEE** Recommended Maximum Contaminant Level  
**SO** Acronyms

**RFMI**

DA October 12, 1990  
**SEE** Reactive Metals, Inc.  
**SO** Acronyms

**RFNA**

DA October 12, 1990  
**SEE** Ribonucleic Acid  
**SO** Acronyms

**RO (Reactor Operator)**

DA October 12, 1990  
**SEE** Reactor Operator  
**SO** Acronyms

**RO (Remains Open)**

DA October 12, 1990  
**SEE** Remains Open  
**SO** Acronyms

**ROAD**

(1861 ROAD)  
 DA December 10, 1990  
**BT1** Structures (DOE FRASE Vocabulary)  
**SO** DOE FRASE VOCABULARY

**ROADWAY CROWN**

(DOE Order 6430.1A)  
 DA October 12, 1990  
**BT1** Roadways  
**BT2** Routes (Transportation)  
**RT** Roadways  
**SO** Construction  
**DEF** (DOE Order 6430.1A) The high point of a roadway cross-section (usually at the centerline).

**ROADWAYS**

(CAA; CFR)  
 DA October 12, 1990  
**BT1** Routes (Transportation)  
**NT1** Roadway Crown  
**RT** Base Course  
**RT** Preferred Routes  
**RT** Preferred Highway  
**RT** Public Travel Routes  
**RT** Roadway Crown  
**RT** Subbase  
**RT** Superelevation  
**RT** Transportation  
**SO** Air Pollution  
**DEF** Surfaces on which motor vehicles travel. This term includes highways, roads, streets, parking areas, and driveways.

**ROASTING**

(CAA; CFR)  
 DA October 12, 1990  
**BT1** Manufacturing Processes  
**BT2** Processes

**RT Industrial Furnaces**

**RT** Nodulizing Kilns  
**SO** Air Pollution  
**DEF** The use of a furnace to heat arsenic plant feed material for the purpose of eliminating a significant portion of the volatile materials contained in the feed.

**ROCKET AMMUNITION**

(HMTA; CFR)  
 DA May 20, 1991  
**BT1** Ammunition  
**BT2** Munitions  
**SO** Hazardous Materials  
**DEF** (CFR) Rocket ammunition (including guided missiles) is ammunition designed for launching from a tube, launcher, rails, trough, or other launching device, in which the propellant explosive. It consists of an igniter, rocket motor, and projectile (warhead) either fused or unfused, containing high explosives or chemicals. Rocket ammunition may be shipped completely assembled or may be shipped unassembled in one outside container.

**ROCKET MOTOR TEST SITES**

(CAA; CFR)  
 DA October 12, 1990  
**BT1** Test Area  
**BT2** Area  
**BT3** Sites/Areas  
**SO** Air Pollution  
**DEF** Buildings, structures, facilities, or installations where the static test firing of a beryllium rocket motor and/or the disposal of beryllium propellant is conducted.

**ROCKWELL INTERNATIONAL CORP.**

DA January 11, 1991  
**BT1** Companies  
**BT2** Commercial Organizations  
**BT3** Organizations  
**BT1** DOE Contractors  
**BT2** Potentially Responsible Parties  
**RT** Energy Technology Engineering Center (Canoga Park)  
**RT** Idaho Operations Office  
**RT** San Francisco Operations Office

**ROCKY FLATS PLANT**

DA January 8, 1991  
**SF** *RFP*  
**BT1** Government-Owned Contractor-Operated Facilities  
**BT2** Federal Facilities  
**BT3** Facilities

**ROD (CERCLA Record of Decision)**

DA June 6, 1991  
**SEE** Record of Decision (CERCLA)  
**SO** Acronyms

**ROD (NEPA Record of Decision)**  
 DA October 12, 1990  
 SEE Record of Decision (NEPA)  
 SO Acronyms  
 SO Environmental Protection Agency Glossary  
 SO Management

**ROD (Report of Discrepancy)**  
 DA October 12, 1990  
 SEE Report of Discrepancy  
 SO Acronyms

**ROD DRIVE**  
 (2590 ROD DRIVE)  
 DA January 3, 1991  
 BT1 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)  
 BT2 Equipment  
 BT2 Reactor Components  
 RT Control Rod Drive Assembly  
 SO DOE FRASE VOCABULARY

**ROD EQUIPMENT ROOM**  
 DA January 8, 1991  
 SF RER

**RODENTICIDES**  
 (EPA)  
 DA October 12, 1990  
 BT1 Pesticides  
 BT2 Hazardous Substances  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A chemical or agent used to destroy rats or other rodent pests, or to prevent them from damaging food, crops, etc.

**ROENTGEN**  
 DA January 8, 1991  
 SF R  
 BT1 Radiation Units  
 BT2 Units of Measure  
 RT Milliroentgen  
 RT Roentgen Equivalent Man  
 RT Sievert  
 SO Environmental Management  
 SO Radiation  
 DEF (DSTT) An exposure dose of x- or y- radiation such that the electrons and positrons liberated by this radiation produce, in air, when stopped completely, ions carrying positive and negative charges of  $2.58 \times 10^{-4}$  coulomb per kilogram of air. Abbreviated R (formerly r).

**ROENTGEN EQUIVALENT MAN**  
 (EPA)  
 DA October 12, 1990  
 SY Sievert  
 SF REM (Roentgen Equivalent Man)  
 BT1 Radiation Units  
 BT2 Units of Measure  
 RT Roentgen

SO Environmental Protection Agency Glossary  
 DEF (DSTT) A unit of ionizing radiation, equal to the amount that produces the same damage to humans as 1 roentgen of high- voltage x-rays.

**ROLL MILL**  
 (2139 ROLL MILL)  
 DA December 10, 1990  
 BT1 Milling Machine  
 BT2 Machines (DOE FRASE Vocabulary)  
 BT3 Equipment  
 SO DOE FRASE VOCABULARY

**ROOF-TOP-RATIO**  
 (NFI)  
 DA October 12, 1990  
 SF RTR  
 BT1 Ratios  
 SO Radiation  
 DEF (NFI) Ratio of the flux at points 1/4 and 3/4 of the distance from the top to the bottom of the reactor core, used to position partial control rods correctly.

**ROOM**  
 (1713 Room)  
 DA January 18, 1991  
 BT1 Sites/Areas  
 NT1 Air Lock Room  
 NT1 Central Control Room  
 NT1 Clean Rooms  
 NT1 Control Room  
 NT1 Equipment Room  
 NT1 Locker/Shower Room  
 NT1 Refrigeration Room  
 NT1 Rest Room  
 NT1 Shipping Room  
 NT1 Stock Room  
 RT Chamber  
 SO DOE FRASE VOCABULARY

**ROOT CAUSE ANALYSIS**  
 (DOE Order 4330.4A)  
 DA June 5, 1991  
 BT1 Analyses  
 RT Failures  
 RT Management System Factors  
 RT Oversights and Omissions  
 RT Specific Control Factors  
 SO Management  
 DEF (DOE Order 4330.4A) An analysis performed to determine the cause of part, system, and component failures.

**ROOT CAUSES**  
 (TTGM; SSSC)  
 DA October 12, 1990  
 SY Basic Causes  
 BT1 Causes  
 RT Concerns  
 RT Contributing Causes  
 RT Events and Causal Factors  
 RT Findings

RT Management Oversight and Risk Tree  
 RT Management System Factors  
 RT Specific Control Factors  
 SO System Safety Development Center Glossary  
 DEF (TTGM) Within a Tiger Team Assessment, a) those items which if corrected could prevent occurrence or reoccurrence of the situations and conditions that were found and b) those specific/systemic factors that could cause or create conditions that may be less than adequate or could result in accidents or incidents. (SSDC) A lack of adequate management control contributing to substandard practices or conditions (immediate causes) which result in accidents or incidents. Management control failures can result from the lack of adequate policy, inadequate policy implementation or from the lack of or insufficient risk evaluation.

**ROSS AVIATION, INC.**  
 DA January 11, 1991  
 BT1 Companies  
 BT2 Commercial Organizations  
 BT3 Organizations  
 BT1 DOE Contractors  
 BT2 Potentially Responsible Parties  
 RT Albuquerque Operations Office

**ROTATIONAL WINDSTORMS**  
 (SMRP)  
 DA October 12, 1990  
 BT1 Act of Nature  
 NT1 Dust Devils  
 NT1 Tornadoes  
 NT1 Waterspouts  
 RT Divergent Windstorms  
 RT Subvortices  
 SO Natural Phenomenon  
 DEF (SMRP) Tornadoes, waterspouts, and dust devils; characterized by a rotational flow field.

**ROUGH FISH**  
 (EPA)  
 DA October 12, 1990  
 BT1 Fish  
 BT2 Animals  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Those fish, not prized for eating, such as gar and suckers. Most are more tolerant of changing environmental conditions than game species.

**ROUTER(S)**  
 (2978 ROUTER)  
 DA January 3, 1991  
 BT1 Tools - Powered  
 BT2 Tools (DOE FRASE Vocabulary)

BT3 Equipment  
SO DOE FRASE VOCABULARY

**ROUTES (EXPOSURE)**

DA February 25, 1991  
NT1 Common Exposure Routes  
NT1 Critical Pathways  
NT1 Exposure Pathways  
NT2 Ingestion Exposure Pathways  
NT2 Plume Exposure Pathways  
NT1 Exposure Route  
RT Exposure

**ROUTES (TRANSPORTATION)**

DA February 25, 1991  
NT1 Highway  
NT1 Preferred Routes  
NT2 State-Designated Routes  
NT1 Preferred Highway  
NT1 Public Travel Routes  
NT1 Roadways  
NT2 Roadway Crown

**ROUTINE ANALYTICAL SERVICES**

(EPA)  
DA October 12, 1990  
RT Analyses  
SO Environmental Protection Agency Glossary  
DEF (EPA) The set of Contract Laboratory Program (CLP) analytical protocols that are used to analyze most Superfund site samples. These protocols are provided in the EPA Statements of Work (SOW) for the CLP (SOW for Inorganics; SOW for Organics) and must be followed by every CLP laboratory.

**ROUTINE WASTES**

(DOE Order 6430.1A)  
DA October 12, 1990  
BT1 Wastes  
SO Construction  
DEF (DOE Order 6430.1A) Wastes generated due to normal operations and anticipated abnormal events.

**RPIS**

DA October 12, 1990  
SEE Real Property Inventory System  
SO Acronyms

**RPM (Radial Power Monitor)**

DA October 12, 1990  
SEE Radial Power Monitor  
SO Acronyms

**RPM (Remedial Project Manager)**

DA October 12, 1990  
SEE Remedial Project Managers  
SO Acronyms

**RPS**

DA October 12, 1990

SEE Reactor Protection System  
SO Acronyms

**RPT**

DA October 12, 1990  
SEE Recirculation Pump Trip  
SO Acronyms

**RPV**

DA October 12, 1990  
SEE Reactor Pressure Vessel  
SO Acronyms

**RO**

DA October 12, 1990  
SEE Reportable Quantities  
SO Acronyms

**RRI**

DA October 12, 1990  
SEE RCRA Remedial Investigation  
SO Acronyms

**RRMT**

DA October 12, 1990  
SEE Reactor and Reactor Material Technology  
SO Acronyms

**RRT**

DA October 12, 1990  
SEE Regional Response Teams  
SO Acronyms

**RSE**

DA May 16, 1991  
SEE Removal Site Evaluations  
SO Acronyms

**RSO (Reported Significant Observations)**

DA October 12, 1990  
SEE Reported Significant Observations  
SO Acronyms

**RSPA**

DA October 12, 1990  
SEE Research and Special Programs Administration  
SO Acronyms

**RSS**

DA October 12, 1990  
SEE Reactor Safety Study  
SO Acronyms

**RSSMAP**

DA October 12, 1990  
SEE Reactor Safety Study Methodology Application Program  
SO Acronyms

**RTD**

DA October 12, 1990  
SEE Reactor Technology Department  
SO Acronyms

**RTR**

DA October 12, 1990  
SEE Roof-Top-Ratio  
SO Acronyms

**RUBBISH**

(EPA)  
DA October 12, 1990  
BT1 Solid Wastes  
BT2 Wastes  
SO Environmental Protection Agency Glossary  
DEF (EPA) Solid waste, excluding food waste and ashes, from homes, institutions, and work-places.

**RUN**

(CAA; CFR)  
DA October 12, 1990  
BT1 Time Designations  
RT Air Monitoring  
RT Sampling  
SO Air Pollution  
DEF The net period of time during which an emission sample is collected. Unless otherwise specified, a run may be either intermittent or continuous within the limits of good engineering practice.

**RUN-OFF**

(SWDA; RCRA; EPA)  
DA October 12, 1990  
NT1 Urban Runoff  
RT Contour Plowing  
RT Erosion  
RT Groundwater  
RT Storm Water  
SO Environmental Management  
SO Environmental Protection Agency Glossary  
SO Wastes  
DEF That part of precipitation, snow melt, or irrigation water that runs off the land into streams or other surface water. It can carry pollutants from the air and land into the receiving waters.

**RUN-ON**

(SWDA; RCRA)  
DA October 12, 1990  
SO Environmental Management  
SO Wastes  
DEF Any rainwater, leachate, or other liquid that drains over land onto any part of a facility.

**RUPTURED DISK**

(1337 RUPTURED DIS)  
DA November 28, 1990  
BT1 Injuries  
RT Back  
RT Spinal Cord  
RT Upper Back  
SO DOE FRASE VOCABULARY

**RUTHENIUM 103**

(EDB)

DA March 29, 1991  
 BT1 Beta-Minus Decay Radioisotopes  
 BT2 Beta Decay Radioisotopes  
 BT3 Radionuclides  
 BT4 CERCLA Hazardous Substances  
 BT5 Hazardous Substances  
 BT4 Nuclides  
 BT1 Years Living Radioisotopes  
 BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Nuclides  
 SO Radiation

RV  
 DA October 12, 1990  
 SEE Reactor Vessel  
 SO Acronyms

RVC  
 DA October 12, 1990  
 SEE Reactor Volume Control  
 SO Acronyms

RW (DOE Program Office)  
 DA October 12, 1990  
 SEE Office of Civilian Radioactive Waste Management  
 SO Acronyms

RW (River Water)  
 DA October 12, 1990  
 SEE River Water  
 SO Acronyms

RWE  
 DA October 12, 1990  
 SEE Reactor Works Engineering  
 SO Acronyms

RWIS  
 DA October 12, 1990  
 SEE Raw Water Intake Structure  
 SO Acronyms

RWL  
 DA October 12, 1990  
 SEE Reactor Water Level  
 SO Acronyms

RWQCB  
 DA October 12, 1990  
 SEE Regional Water Quality Control Board  
 SO Acronyms

RWST  
 DA October 12, 1990  
 SEE Refueling Water Storage Tank  
 SO Acronyms

RX  
 DA October 12, 1990  
 SEE Reactors  
 SO Acronyms

RZ  
 DA October 12, 1990  
 SEE Radiation Zone  
 SO Acronyms

S&A  
 DA October 12, 1990  
 SEE Sampling and Analysis  
 SO Acronyms

S&M  
 DA October 12, 1990  
 SEE Surveillance and Maintenance  
 SO Acronyms

S Waves  
 DA October 12, 1990  
 SEE Secondary Body Waves  
 SO Acronyms

S/R  
 DA October 12, 1990  
 SEE Safety/Relief  
 SO Acronyms

**SAFE**  
 (SSDC)  
 DA October 12, 1990  
 BT1 Conditions  
 RT Risks  
 SO System Safety Development Center Glossary  
 DEF (SSDC) A condition wherein risks are as low as practicable and present no significant residual risk.

**SAFE DRINKING WATER ACT**  
 DA June 6, 1991  
 SF SDWA  
 BT1 Acts  
 BT2 Statutes and Regulations  
 BT1 Appropriate Act and Regulations  
 RT Drinking Water Supplies  
 RT Public Water Systems  
 RT Water Quality Criteria  
 SO Water Pollution

**SAFE MASS**  
 (Doe Order 5480.5)  
 DA October 12, 1990  
 SO Environmental Management  
 SO Industrial Safety  
 DEF (DOE Order 5480.5) That mass of fissionable materials which is subcritical for all conditions to which it could reasonably be expected to be exposed, including processing, handling, storing, and procedural uncertainties.

**SAFE SHUTDOWN EARTHQUAKE 135**  
 DA January 24, 1991  
 BT1 Design Basis Earthquakes  
 BT2 Design Basis Accidents  
 BT3 Accidents  
 RT Natural Phenomenon  
 SO Environmental Management  
 DEF (CFR) That earthquake which is

based upon an evaluation of the maximum earthquake potential considering the regional and local geology and seismology and specific characteristics of local subsurface material. It is that earthquake which produces the maximum vibratory ground motion for which certain structures, systems, and components are designed to remain functional.

**SAFE SHUTDOWN SYSTEM**

DA January 8, 1991  
 SF SSS (*Safe Shutdown System*)  
 BT1 Emergency Systems  
 BT2 Systems  
 NT1 Sparger Assemblies  
 RT Reactor Shutdown

**SAFE WORK PERMIT**

(SSDC)  
 DA October 12, 1990  
 BT1 Permits  
 RT Safeguards  
 SO System Safety Development Center Glossary  
 DEF (SSDC) A permit allowing employees to perform potential hazardous work, which outlines necessary safeguards, procedures, etc. An SWP usually requires several approval procedures before work can begin. The form may have other names in different companies.

**SAFEGUARDS**

(DOE Order 6430.1A; EMER)  
 DA October 12, 1990  
 RT Departmental-Approved Equipment  
 RT DOE Safeguards and Security Coordinators  
 RT Inspections (Nuclear)  
 RT Physical Protection (physical security)  
 RT Safe Work Permit  
 RT Site-Specific Safeguards and Security Plan  
 SO Construction  
 SO Emergency Preparedness  
 DEF (DOE Order 6430.1A) An integrated system of physical protection, material accounting, and material control measures designed to date, prevent, detect, and respond to unauthorized possession, use, or sabotage of special nuclear materials. In practice, safeguards involve the development and application of techniques and procedures dealing with the establishment and continued maintenance of a system of activities including physical protection, quantitative knowledge of the location and use of special nuclear materials, and administrative controls and surveillance to assure that