

BT1 Structures (DOE FRASE Vocabulary)

NT1 Dams

NT1 Dikes

NT2 Terracing

RT Freeboard

SO Construction

DEF (DOE Order 6430.1A) Structures for the conveyance and/or control of water under nonpressure open-channel flow.

#### HYDROCARBONS

(EPA)

DA October 12, 1990

SF HC

BT1 Organic Chemicals

BT2 Chemical Substances

NT1 Methane

SO Environmental Protection Agency Glossary

DEF (EPA) Chemical compounds that consist entirely of carbon and hydrogen.

#### HYDROGEN FLUORIDE

DA January 8, 1991

SF HF

#### HYDROGEN GAS STREAMS

(CAA; CFR)

DA October 12, 1990

RT Denuders

RT Mercury Chlor-alkali Cells

SO Air Pollution

DEF Hydrogen streams formed in the chlor-alkali cell denuder.

#### HYDROGEN SULFIDE

(EPA)

DA October 12, 1990

SF HS

BT1 Inorganic Chemicals

BT2 Chemical Substances

SO Environmental Protection Agency Glossary

DEF (EPA) Gas emitted during organic decomposition. Also a by-product of oil refining and burning. It smells like rotten eggs and, in heavy concentration, can cause illness.

#### HYDROGEOLOGIC UNITS

DA May 24, 1991

BT1 Zones

BT2 Sites/Areas

RT Groundwater

SO Wastes

SO Water Pollution

DEF (CFR) Any soil or rock units or zones which by virtue of their porosity or permeability, or lack thereof, a distinct influence on the storage or movement of groundwater.

#### HYDROGEOLOGY

(EPA)

DA October 12, 1990

SO Environmental Protection Agency Glossary

DEF (EPA) The geology of groundwater, with particular emphasis on the chemistry and movement of water.

#### HYDROLOGY

(EPA)

DA October 12, 1990

RT Site Characterization

RT Water

SO Environmental Protection Agency Glossary

DEF (EPA) The science dealing with the properties, distribution, and circulation of water.

#### HYDROLYSIS

DA May 20, 1991

BT1 Chemical Processes

BT2 Processes

SO Environmental Management

SO Water Pollution

DEF (DSTT) Decomposition or alteration of a chemical substance by water. In aqueous solutions of electrolytes, the reactions of cations with water to produce a weak base or of anions to produce a weak acid.

#### I&C

DA October 12, 1990

SEE Instrumentation and Control

SO Acronyms

#### I/M

DA October 12, 1990

SEE Inspection and Maintenance

SO Acronyms

#### I/P

DA October 12, 1990

SEE Circuit to Pressure Converter

SO Acronyms

#### IA (Incident Actions)

DA October 12, 1990

SEE Incident Actions

SO Acronyms

#### IA (Instrument Air)

DA October 12, 1990

SEE Instrument Air

SO Acronyms

#### IAG

DA October 12, 1990

SEE Interagency Agreement

SO Acronyms

#### IBM

DA October 12, 1990

SEE International Business Machines

SO Acronyms

#### IC (Incident Control)

DA October 12, 1990

SEE Incident Control

SO Acronyms

#### IC (Isolation Condenser)

DA October 12, 1990

SEE Isolation Condenser

SO Acronyms

#### ICP/MS

DA October 12, 1990

SEE Inductively Coupled Plasma/Mass Spectrometer

SO Acronyms

#### ICPP

DA October 12, 1990

SEE Idaho Chemical Processing Plant

SO Acronyms

#### ICS

DA November 15, 1990

SEE Intermittent Control System

SO Acronyms

#### ICU

DA October 12, 1990

SEE Interface Control Unit

SO Acronyms

#### ID

DA October 12, 1990

SEE Idaho Operations Office

SO Acronyms

#### IDAHO CHEMICAL PROCESSING PLANT

DA January 8, 1991

SF ICPP

BT1 Government-Owned

Contractor-Operated Facilities

BT2 Federal Facilities

BT3 Facilities

RT Westinghouse Idaho Nuclear Co., Inc.

#### IDAHO NATIONAL ENGINEERING LABORATORY

DA January 8, 1991

SF INEL

BT1 Government-Owned

Contractor-Operated Facilities

BT2 Federal Facilities

BT3 Facilities

BT1 Laboratories

BT2 Research and Development

Organizations

BT3 Organizations

NT1 Power Burst Facility

RT EG&G Idaho, Inc.

RT MK-Ferguson of Idaho Co.

RT Protection Technology Idaho

DEF (Capsule Review of DOE Research

and Development and Field

Facilities, 1986) INEL was

established in 1949 for the

building and testing of nuclear

reactors and support equipment. INEL now reprocesses and recovers spent nuclear fuel from several test reactors, the nuclear naval fleet and other nuclear noncommercial reactors and processes liquid waste into the calcine form for intermediate storage. INEL operates the Advanced Test Reactor and a radioactive waste management complex for storage and disposal of low-level waste and conducts associated programs in materials testing, isotope production, irradiation services and training and test support. In addition, INEL functions as the lead laboratory for the multi-megawatt space reactor program and fusion reactor safety research.

**IDAHO OPERATIONS OFFICE**

DA January 8, 1991  
 SF ID  
 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 EG&G Idaho, Inc.  
 RT MK-Ferguson  
 RT MK-Ferguson of Idaho Co.  
 RT Protection Technology Idaho  
 RT Rockwell International Corp.  
 RT West Valley Nuclear Services Co., Inc.  
 RT Westinghouse Idaho Nuclear Co., Inc.  
 DEF (Capsule Review of DOE Research and Development and Field Facilities, 1986) The Idaho Operations Office, established in 1949, administers the Idaho National Engineering Laboratory (INEL) and associated support facilities. Major program and project assignments include: nuclear materials production; defense waste and transportation management; energy conservation; alternate energy; remedial action; the Three Mile Island Program; the Multi-Megawatt Space Reactor, etc.

**IDB**

DA October 12, 1990  
 SEE Integrated Data Base  
 SO Acronyms

**IDCOR**

DA October 12, 1990

SEE Industry Degraded Core Rulemaking Program  
 SO Acronyms

**IDLH**

DA October 12, 1990  
 SEE Immediately Dangerous to Life and Health  
 SO Acronyms

**IE (Industrial Engineering)**

DA October 12, 1990  
 SEE Industrial Engineering  
 SO Acronyms

**IE (Office of Inspection and Enforcement)**

DA October 12, 1990  
 SEENRS Office of Inspection and Enforcement  
 SO Acronyms

**IEEE**

DA October 12, 1990  
 SEE Institute of Electrical and Electronic Engineers  
 SO Acronyms

**IFC**

DA October 12, 1990  
 SEE Internal Fission Counter  
 SO Acronyms

**IFI**

DA October 12, 1990  
 SEE Inspector Follow-up Items  
 SO Acronyms

**IGFM**

DA October 12, 1990  
 SEE Internal Gamma Flux Monitor  
 SO Acronyms

**IGNITABILITY**

(EPA)  
 DA October 12, 1990  
 RT Explosives  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Capable of burning or causing a fire.

**IH (Industrial Hygiene)**

DA October 12, 1990  
 SEE Industrial Hygiene  
 SO Acronyms

**IH (Inner Housing)**

DA October 12, 1990  
 SEE Inner Housing  
 SO Acronyms

**IHE**

DA October 12, 1990  
 SEE Insensitive High Explosives  
 SO Acronyms

**IHE SUBASSEMBLIES**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 RT IHE Weapons  
 SO Construction  
 DEF (DOE Order 6430.1A) Insensitive High Explosive (IHE) hemispheres or spheres with booster charges, with or without detonators, that pass the DOE qualification tests listed in Table IX-2 of DOE/EV 06194.

**IHE WEAPONS**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 RT IHE Subassemblies  
 RT Insensitive High Explosives  
 SO Construction  
 DEF (DOE Order 6430.1A) Weapons listed in DOE/DNA TP 20-7 as exempt from storage and transportation limits are classified as IHE weapons when stored or transported alone or in combination with each other. This classification is valid only by storage/shipping containers or, if out of containers, by the spacing specified in TP 20-7.

**ILLNESS**

(1391 ILLNESS)  
 DA November 28, 1990  
 RT Injury  
 SO DOE FRASE VOCABULARY

**ILLNESSES**

(DOE FRASE Vocabulary Numeric Keys 1375-1449)  
 DA January 17, 1991  
 NT1 Asbestosis  
 NT1 Benign and Unspecified Neoplasm  
 NT1 Chemical Reaction  
 NT1 Complications Peculiar to Med. Care  
 NT1 Cond of Respiratory Sys. Non-Toxic  
 NT2 Upper Respiratory Condition  
 NT2 Upper Respiratory Disease  
 NT3 Tuberculosis  
 NT1 Conjunctivitis  
 NT1 Contagious or Infectious Disease  
 NT2 Conjunctivitis  
 NT1 Dermatitis  
 NT1 Disease of Central Nervous System  
 NT1 Diseases of Blood  
 NT2 Hepatitis  
 NT1 Fluorosis  
 NT1 Frostbite/Other Low Temp Effects  
 NT1 Hearing Impairment  
 NT1 Heart Attack  
 NT1 Hemorrhoids  
 NT1 Insulin Reaction  
 NT1 Ionizing Radiation Effects  
 NT1 Malignant Neoplasm  
 NT1 Mental Disorders  
 NT1 Occupational Illnesses  
 NT1 Other Complications  
 NT1 Other Skin Conditions  
 NT1 Physical Harm

NT1 Poisoning  
 NT2 Systemic Poisoning  
 NT1 Sunburn  
 NT1 Synovitis  
 NT1 Systemic Effects  
 NT1 Tendonitis  
 NT1 Tetanus  
 NT1 Toxic Effects to Single System  
 NT1 Ulcer(s)  
 RT Diseases  
 RT DOE FRASE Categories  
 RT Effects  
 RT Hospital  
 RT Injuries  
 SO DOE FRASE VOCABULARY  
 DEF Equivalent to the DOE FRASE Vocabulary Category "Nature of Illness".

**ILRT**

DA October 12, 1990  
 SEE Integrated Leak Rate Test  
 SO Acronyms

**ILS**

DA October 12, 1990  
 SEE Integrated Logistics Support  
 SO Acronyms

**IMM**

(NFI)  
 DA October 12, 1990  
 SO Nuclear Facilities Incident Database  
 SO Radiation  
 DEF (NFI) Procedure designation for Instrument Department.

**IMMEDIATE (ACUTE) HEALTH HAZARDS**

(CERCLA, CFR)  
 DA October 12, 1990  
 BT1 Hazard Categories  
 BT1 Health Hazards  
 BT2 Hazards  
 BT3 Conditions  
 DEF (CFR) Includes "highly toxic," "toxic," "irritant," "sensitizer," and "corrosive," and other hazardous chemicals that cause an adverse effect to a target organ and which effect generally occurs rapidly as a result of short term exposure and is of short duration.

**IMMEDIATE CAUSES**

(SSDC)  
 DA October 12, 1990  
 BT1 Causes  
 SO System Safety Development Center Glossary  
 DEF (SSDC) Practices or conditions which physically cause an accident or incident at a specific time and place.

**IMMEDIATELY DANGEROUS TO LIFE AND HEALTH**

(EPA; EMER)  
 DA October 12, 1990

SF IDLH  
 SO Environmental Management  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) The maximum level to which a healthy individual can be exposed to a chemical for 30 minutes and escape without suffering irreversible health effects or impairing symptoms. Used as a "level of concern."

**IMMEDIATELY DANGEROUS TO LIFE OR HEALTH VALUES (EMER)**

DA February 1, 1991  
 BT1 Conditions  
 SO Emergency Preparedness  
 DEF As defined in 29 Code of Federal Regulations Part 1926.103, a condition that either poses an immediate threat to life and health or an immediate threat of severe exposure to contaminants (for example, radioactive materials which are likely to have adverse delayed effects on health).

**IMMINENT AND SUBSTANTIAL ENDANGERMENT**

DA January 24, 1991  
 BT1 Conditions  
 RT Imminent Danger  
 SO Environmental Management  
 DEF (USC) A qualifying condition given to any solid or hazardous waste which, when applied, allows EPA the authority to take necessary actions to protect public health and the environment. This action may include but is not limited to restraining any person from handling, storage, treatment, transportation, or disposal of solid or hazardous wastes which meet this condition. The test for "imminent and substantial endangerment" places a heavy burden of proof on the EPA and therefore, substantially limits EPA's authority to address disposal site problems. (Reference "Imminent Danger", Doe 5483.1A and "Substantial", DOE 5484.1)

**IMMINENT DANGER**

(Doe Order 5483.1A)  
 DA October 12, 1990  
 BT1 Danger  
 BT2 Conditions  
 RT Imminent and Substantial Endangerment  
 RT Industrial Safety  
 SO Environmental Management  
 SO Industrial Safety  
 SO System Safety Development Center Glossary  
 DEF (DOE Order 5483.1A) Any condition or practice which is such that a hazard exists that could

reasonably be expected to cause death or serious physical harm to employees (permanent or prolonged impairment of the body or temporary disablement requiring hospitalization), unless immediate actions are taken to mitigate the effects of the hazard and/or remove employees from the hazard.

**IMMINENT HAZARD**

(USC)  
 DA November 15, 1990  
 BT1 Hazards  
 BT2 Conditions  
 RT Emergency Conditions  
 SO Environmental Management  
 DEF (USC) Situations which exist when the continued use of a pesticide during the time required for cancellation proceeding would be likely to result in unreasonable adverse effects on the environment or will involve unreasonable hazard to the survival of a species declared endangered or threatened by the Secretary pursuant to the Endangered Species Act of 1973 [16 USCS sections 1531 et seq.].

**IMPACT WRENCH**

(3040 IMPACT WRENC)  
 DA January 3, 1991  
 BT1 Wrench(s)  
 BT2 Tools (DOE FRASE Vocabulary)  
 BT3 Equipment  
 SO DOE FRASE VOCABULARY

**IMPLEMENTATION**

(MORT)  
 DA April 3, 1991  
 RT Implementation Plans  
 RT Management System Factors  
 RT Policies  
 RT Risk Assessment  
 DEF (WEBSTER) To give practical effect to and ensure actual fulfillment by the establishment of concrete measures. (MORT) MORT analysis asks: does the overall program represent the intended fulfillment of the policy statement? if there are problems encountered in carrying out the policy, are these relayed back to the policy makers? is the implementation a continuous, balanced effort designed to correct systemic failures, and generally pre-active rather than re-active? Related issues/topics include: line and staff responsibility; information flow; directives; management services; budget; delays; accountability; and vigor and example.

**IMPLEMENTATION PLANS**

(DOE Orders 5440.1D, 5480.1B, and 5700.6B)  
 DA October 12, 1990  
 BT1 Plans  
 NT1 EIS Implementation Plans  
 RT Delayed Compliance Orders  
 RT Environmental Impact Statements  
 RT Implementation  
 SO Environmental Management  
 SO Management  
 SO Quality Assurance  
 DEF Concise descriptions of the approach, resources, and time period planned for implementing Orders that require such plans on a site-wide basis. The plan includes a description of the execution of environmental protection, safety, and health responsibilities and authorities by the field organization, and any proposed generic exemptions to parts of such DOE Orders. (ESH) Written plans that record the results of the scoping process and outline the procedures by which an environmental impact statement is to be prepared. The implementation plans should be prepared in accordance with the Department's guidelines (52 FR 49662).

**IMPLEMENTING AGENCIES**

(SWDA; RCRA; CFR)  
 DA October 19, 1990  
 BT1 Local Agencies  
 BT2 Agencies  
 BT3 Administrative Organizations  
 BT4 Organizations  
 BT1 State Agencies  
 BT2 Agencies  
 BT3 Administrative Organizations  
 BT4 Organizations  
 RT Nuclear Regulatory Commission  
 SO Wastes  
 DEF EPA, or, in the case of a state with a program approved under section 9004 (or pursuant to a memorandum of agreement with EPA), the designated state or local agency responsible for carrying out an approved UST (Underground Storage Tank) program.

**IMPOUNDMENT**

(SWDA; EPA; ESH)  
 DA October 12, 1990  
 BT1 Sites/Areas  
 NT1 New Tailings Impoundment  
 NT1 PAR Ponds  
 NT1 Reservoirs  
 NT1 Surface Impoundment  
 RT Evaporation Ponds  
 RT Holding Ponds  
 RT Sanitary Engineering Structures  
 RT Sewage Lagoons

SO Environmental Protection Agency  
 Glossary  
 SO Wastes  
 DEF (EPA) A body of water or sludge confined by a dam, dike, floodgate, or other barrier.

**IMPROVED RISK**

(DOE Orders 5480.7 and 6430.1A)  
 DA October 12, 1990  
 BT1 Risks  
 SO Construction  
 SO Fires  
 DEF The term involves the use and application of judgment and thus does not lend itself to a precise, fixed definition applicable in all locations and situations. It has the same meaning and intent as is commonly understood when this or the term, "Highly Protected Risk," is used in the insurance industry. Generally, an improved risk property is one that would qualify for complete insurance coverage by the Factory Mutual System, the Industrial Risk Insurers, and other industrial insurance companies that limit their insurance underwriting to the best protected class of industrial risk. Essential elements of a program complying with the improved risk concept are included in this directive. Improved risk protection requires compliance with the fire protection and loss prevention standards detailed in DOE 5480.4, ENVIRONMENTAL PROTECTION, SAFETY, AND HEALTH PROTECTION STANDARDS, of 5-15-84. See DOE 5480.7 for continued definition.

**IMPURITIES**

(TSCA; CFR)  
 DA October 12, 1990  
 BT1 Chemical Substances  
 RT Adulterants  
 RT Contamination  
 RT Ethylene Dichloride Purification  
 RT Vinyl Chloride Purification  
 SO Hazardous Materials  
 DEF Chemical substances which are unintentionally present with another chemical substance.

**IN GAS SERVICE**

(CAA; CFR)  
 DA October 12, 1990  
 NT1 in VHAP Service  
 DEF (CFR) That a piece of equipment contains process fluid that is in the gaseous state at operating conditions.

**IN HEAVY LIQUID SERVICE**

(CAA; CFR)  
 DA October 12, 1990

BT1 In Liquid Service  
 SO Air Pollution  
 DEF (ESH) Equipment that is not in gas/vapor service or in light liquid service. For Subpart KKK ONLY contains a liquid for which the weight percent evaporated is 10 percent or less at 150degC as determined by ASTM method D86.

**IN LIGHT LIQUID SERVICE**

(CAA; CFR)  
 DA October 12, 1990  
 BT1 In Liquid Service  
 SO Air Pollution  
 DEF (ESH) Equipment that contains a fluid for which: (1) The vapor pressure of one or more of the components is greater than 0.3 kilopascals (kPa) at 20degC; (2) the total concentration of the pure components having a vapor pressure greater than 0.3 KPa at 20degC is equal to or greater than 20 percent by weight; and (3) the fluid is a liquid at operating conditions. (For Subpart KKK ONLY contains a liquid for which the weight percent-evaporated is greater than 10 percent at 50degC as determined by ASTM method D86).

**IN LIQUID SERVICE**

(CAA; CFR)  
 DA October 12, 1990  
 NT1 In Heavy Liquid Service  
 NT1 In Light Liquid Service  
 NT1 In VOC Service  
 SO Air Pollution  
 DEF (CFR) A piece of equipment that is not in gas/vapor service.

**IN-PROCESS MATERIALS**

DA October 19, 1990  
 SY In-Use Materials  
 BT1 Materials  
 RT Staging Bays (in-process)  
 SO Construction  
 DEF (DOE Order 6430.1A) Materials that are integral to the manufacturing or production processes and are needed to maintain continuity of operations. Other material that requires temporary location near the pertinent process areas in readiness for near-term use or for movement to other process areas may also be considered "in-process". For material involved in laboratory operations, analogous definitions shall be applied to determine eligibility for the "in-process" or "in-use" category and consequent exclusion from storage requirements of these criteria.

**IN-PROCESS WASTEWATER**

(CAA; CFR)  
 DA November 15, 1990  
 BT1 Wastewater  
 BT2 Wastes  
 BT2 Water  
 RT Polyvinyl Chloride  
 RT Vinyl Chloride  
 SO Air Pollution  
 DEF (CFR) Any water which, during manufacturing or processing, comes into direct contact with vinyl chloride or polyvinyl chloride or results from the production or use of any raw material, intermediate product, finished product, by-product, or waste product containing vinyl chloride or polyvinyl chloride but which has not been discharged to a wastewater treatment process or discharged untreated as wastewater. Gasholder seal water is not in-process wastewater until it is removed from the gasholder.

**IN-SITU**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 SO Construction  
 DEF (DOE Order 6430.1A) In the existing or original location.

**IN-SITU EXTRACTION**

(NCRP)  
 DA October 12, 1990  
 BT1 Chemical Processes  
 BT2 Processes  
 RT Heap-leach Extraction  
 SO Radiation  
 DEF (NCRP) Extraction of a mineral using chemical solutions, without removing the ore from its natural location.

**IN-SITU SAMPLING SYSTEMS**

(CAA; CFR)  
 DA October 12, 1990  
 BT1 Systems  
 RT Sampling  
 SO Air Pollution  
 DEF (CFR) Nonextractive samplers or in-line samplers.

**IN-SITU TREATMENT**

DA January 8, 1991  
 SF *IST*  
 BT1 Treatment  
 BT2 Waste Management Processes  
 BT3 Processes

**IN-SITU VITRIFICATION**

DA January 8, 1991  
 SF *ISV*  
 BT1 Processes

**IN SITU VOLATIZATION**

(CERCLA)  
 DA May 20, 1991

BT1 Chemical Processes  
 BT2 Processes  
 RT Comprehensive Environmental Response, Compensation, etc.  
 SO Environmental Management  
 DEF A process presently performed at a number of CERCLA sites (e.g. Rocky Mountain Arsenal-DOD). (DSTT) The conversion of a chemical substance from a liquid or solid state to a gaseous or vapor state by the application of heat, by reducing pressure, or by a combination of these processes.

**IN-USE MATERIALS**

DA October 19, 1990  
 SY In-Process Materials  
 BT1 Materials  
 SO Construction  
 DEF (DOE Order 6430.1A) Materials that are integral to the manufacturing or production processes and are needed to maintain continuity of operations. Other materials that require temporary location near the pertinent process areas in readiness for near-term use or for movement to other process areas may also be considered "in-process". For materials involved in laboratory operations, analogous definitions shall be applied to determine eligibility for the "in-process" or "in-use" category and consequent exclusion from storage requirements of these criteria.

**IN VACUUM SERVICE**

(CAA; CFR)  
 DA October 12, 1990  
 RT Pressure (Surface)  
 SO Air Pollution  
 DEF (CFR) Equipment that is operating at an internal pressure which is at least 5 kilopascals (kPa) below ambient pressure.

**IN VHAP SERVICE**

(CAA; CFR)  
 DA October 12, 1990  
 BT1 In Gas Service  
 RT In Vinyl Chloride Service  
 RT In VOC Service  
 RT Product Accumulator Vessels  
 RT Volatile Hazardous Air Pollutant (VHAP)  
 SO Air Pollution  
 DEF (CFR) A piece of equipment that either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight a volatile hazardous air pollutant (VHAP) as determined according to the provisions of 40 CFR 61.245(d). The provisions of section 61.245(d) also specify how to determine that a piece of equipment is not in VHAP service.

**IN VINYL CHLORIDE SERVICE**

(CAA; CFR)  
 DA October 12, 1990  
 RT In VHAP Service  
 RT Vinyl Chloride  
 SO Air Pollution  
 DEF (CFR) A piece of equipment that either contains or contacts a liquid that is at least 10 percent vinyl chloride by weight or a gas that is at least 10 percent by volume vinyl chloride as determined according to the provisions of 40 CFR 61.67(h). The provisions of section 61.67(h) also specify how to determine that a piece of equipment is not in vinyl chloride service.

**IN VITRO**

(EPA)  
 DA October 12, 1990  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) (1) "In glass"; a test-tube culture. (2) Any laboratory test using living cells taken from an organism.

**IN VIVO**

(EPA)  
 DA October 12, 1990  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) In the living body of a plant or animal. In vivo tests are those laboratory experiments carried out on whole animals or human volunteers.

**IN VOC SERVICE**

(CAA; CFR)  
 DA October 12, 1990  
 BT1 In Liquid Service  
 RT In VHAP Service  
 RT Volatile Organic Compounds  
 SO Air Pollution  
 DEF (CFR) The piece of equipment that contains or contacts a process fluid that is at least 10 percent VOC by weight (see 40 CFR 60.2 for the definition of volatile organic compound and 40 CFR 60.485(d) to determine whether a piece of equipment is not in VOC service) and (b) the piece of equipment is not in heavy liquid service as defined in 40 CFR 60.481. (ESH) Equipment that contains or contacts a process fluid that is at least 10 percent volatile organic compounds by weight.

**INACTIVE FACILITIES**

DA January 24, 1991  
 BT1 Facilities  
 RT Inactive Portions  
 SO Environmental Management  
 DEF (DOE 5480.14) An area where a

hazardous substance has been deposited, stored, disposed of, or placed or otherwise come to be located. It can be any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or publicly owned treatment works, well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft. Excluded are areas that have a permit issued, or have been accorded interim status under subtitle C of the Solid Waste Disposal Act of the Memorandum of Understanding between the DOE and the EPA for hazardous waste and radioactive mixed waste management, or operated under the provisions of DOE 5480.2 and DOE 5820.2.

**INACTIVE HAZARDOUS WASTE DISPOSAL SITES**

DA January 24, 1991  
 BT1 Inactive Waste Disposal Sites  
     BT2 Disposal Sites  
     BT3 Sites/Areas  
 SO Environmental Management

**INACTIVE MINES**

(CAA; CFR)  
 DA October 12, 1990  
 BT1 Conventional Mines  
     BT2 Sites/Areas  
 RT Abandoned Areas  
 SO Air Pollution  
 DEF (CFR) Mines from which uranium ore has been previously removed but which are not active mines as of the effective date of the standard. Inactive mines which become active mines after the effective date of the standard are considered new sources under the provisions of subparts A and B of 40 CFR 61.21.

**INACTIVE PORTIONS**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Sites/Areas  
 RT Active Portions  
 RT Closed Portions  
 RT Inactive Facilities  
 RT Treatment, Storage, and Disposal Facilities  
 SO Environmental Management  
 SO Wastes  
 DEF (CFR) Portions of a facility which are not operated after the effective date of 40 CFR 261. See also "active portions" and "closed portions."

**INACTIVE WASTE DISPOSAL SITES**

(CAA; CFR)  
 DA October 12, 1990

BT1 Disposal Sites  
 BT2 Sites/Areas  
 NT1 Inactive Hazardous Waste Disposal Sites  
 RT Asbestos-Containing Waste Materials  
 SO Air Pollution  
 DEF (CFR) Disposal sites or portions of them where additional asbestos-containing waste material will not be deposited and where the surface is not disturbed by vehicular traffic.

**INADVERTENTLY OPENED RELIEF VALVE**

DA January 8, 1991  
 SF IORV  
 BT1 Relief Valves  
     BT2 Valves  
     BT3 Devices  
 RT Hazards

**INCH-POUND SYSTEM OF UNITS**

(Doe Order 5900.2)  
 DA October 12, 1990  
 SO Quality Assurance  
 DEF (DOE Order 5900.2) The system of measurement units (inch, pound, second, degree Fahrenheit, and units derived from those) most commonly used now in the United States. Synonyms: "English System," "U.S. System," "Customary System." The inch-pound system is not to be confused with "Imperial System," which describes a related but not completely identical system currently in use in Great Britain and some other English speaking countries.

**INCIDENCE RATE, LOST WORKDAY CASES (LWC)**

(SSDC)  
 DA October 12, 1990  
 BT1 Rates  
 RT Incidence Rate, Total Recordable Cases (TRC)  
 RT Incidence Rate, WDL  
 RT Incidence Rate, LWD (Lost Work Days)  
 RT Lost Workday Cases  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The number of cases recorded in columns 2 or 9 of the OSHA 200 log shall be used to calculate this rate. Therefore, uniform calculation for the rate shall be as follows: LWC = No. of Lost Workday Cases x 200,000/Total Hours Worked.

**INCIDENCE RATE, LWD (LOST WORK DAYS)**

(SSDC)  
 DA October 12, 1990

BT1 Rates  
 RT Incidence Rate, Total Recordable Cases (TRC)  
 RT Incidence Rate, Lost Workday Cases (LWC)  
 RT Incidence Rate, WDLR  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The total lost work days, due to days away and days restricted. LWD = (WDL + WDLR) x 200,000/Total Hours Worked.

**INCIDENCE RATE, TOTAL RECORDABLE CASES (TRC) (SSDC)**

DA October 12, 1990  
 SY Total Recordable Cases  
 BT1 Rates  
 RT Incidence Rate, Lost Workday Cases (LWC)  
 RT Incidence Rate, LWD (Lost Work Days)  
 RT Occupational Injuries  
 RT Occupational Illnesses  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The number of recordable injuries and illnesses per 200,000 total hours worked by all employees during the period covered. The 200,000 hours worked are equivalent to 100 full-time workers at 40 hours per week for 50 weeks. TRC = No. of Recordable Injuries & Illnesses x 200,000/Total Hours Worked. Rates for special purposes may be derived for workdays lost, workdays lost restriction.

**INCIDENCE RATE, WDL (SSDC)**

DA October 12, 1990  
 BT1 Rates  
 RT Incidence Rate, Lost Workday Cases (LWC)  
 RT Incidence Rate, WDLR  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The total number of days (away) entered in columns 4 or 11 of the OSHA 200 log shall be used to calculate this rate. WDL = No. Workdays Lost x 200,000/Total Hours Worked.

**INCIDENCE RATE, WDLR (SSDC)**

DA October 12, 1990  
 BT1 Rates  
 RT Incidence Rate, WDL  
 RT Incidence Rate, LWD (Lost Work Days)  
 SO System Safety Development Center Glossary  
 DEF (SSDC) The total number of days lost, due to restrictions that are entered in columns 5 or 12 of the OSHA 200 log, shall be used to

calculate this rate. WDLR = No. of Workdays Restricted x 200,000/Total Hours Worked.

**INCIDENT ACTIONS**

- DA January 8, 1991
- SF *IA (Incident Actions)*
- BT1 Actions
- BT2 Responses

**INCIDENT CONTROL**

- DA January 8, 1991
- SF *IC (Incident Control)*
- BT1 Controls

**INCIDENTAL TAKE (TAKING)**

- (ESA)
- DA October 12, 1990
- RT Reasonable and Prudent Measures
- SO Endangered Species
- DEF (CFR) Takings that result from, but are not the purpose of, carrying out an otherwise lawful activity conducted by a Federal agency or applicant.

**INCIDENTS**

- (SSDC; EMER)
- DA October 12, 1990
- SY Accidents
- NT1 Air Pollution Episodes
- NT1 Aircraft Incidents
- NT1 Bomb Incidents
- NT1 Bomb Threats
- NT1 Criticality Incidents
- NT1 Episodes (Pollution)
- NT1 High Potential Incidents
- NT1 Nuclear Threat Incidents
- NT1 Radioactive Material Transportation Incidents
- NT1 Radiological Transportation Incidents
- NT1 Significant Incidents
- NT1 Transportation Incidents
- RT Accidents
- RT Accident Sites
- RT Amelioration
- RT Computerized Accident/Incident Reporting System
- RT Events
- RT Occurrences
- SO Emergency Preparedness
- SO System Safety Development Center Glossary
- DEF (DSTT) An occurrence of an action or situation that is a separate unit of experience; happening; something dependent on or subordinate to something else of greater or principal importance; an action likely to lead to grave consequences. (SSDC) A special definition on incidents is used in MORT analysis. They are a failure of control (barrier) without consequences.

**INCINERATION (EPA)**

- DA October 12, 1990
- BT1 Treatment
- BT2 Waste Management Processes
- BT3 Processes
- NT1 Incineration at Sea
- RT Incinerators
- RT Open Burning
- RT Thermal Treatment
- RT Trash-To-Energy Plans
- SO Environmental Protection Agency Glossary
- DEF (EPA) A treatment technology using combustion to destroy organic constituents and reduce the volume of wastes. (EPA) (1) Burning of certain types of solid, liquid or gaseous materials. (2) A treatment technology involving destruction of waste by controlled burning at high temperatures, e.g., burning sludge to remove the water and reduce the remaining residues to a safe, non-burnable ash which can be disposed of safely on land, in some waters or in underground locations.

**INCINERATION AT SEA**

- (EPA)
- DA October 12, 1990
- BT1 Incineration
- BT2 Treatment
- BT3 Waste Management Processes
- BT4 Processes
- SO Environmental Protection Agency Glossary
- DEF (EPA) Disposal of waste by burning at sea on specially-designed incinerator ships.

**INCINERATION VESSELS**

- (CERCLA; USC)
- DA October 12, 1990
- BT1 Vessels
- SO Compensation and Liability
- DEF (USC) Vessels which carry hazardous substances for the purpose of incineration of such substances, so long as such substances or residues of such substances are on board.

**INCINERATORS**

- (SWDA; RCRA; CAA; TSCA; CFR; ESH)
- DA October 12, 1990
- BT1 Equipment/Parts - Heating (DOE FRASE Vocabulary)
- BT2 Equipment
- BT1 Heating Equipment
- NT1 Catalytic Incinerators
- NT1 Qualified Incinerators
- RT Afterburners
- RT Baffle Chambers
- RT Combustion
- RT Incineration
- RT Overfire Air
- SO Air Pollution
- SO Environmental Protection Agency Glossary
- SO Hazardous Materials

**SO Wastes**

- DEF (CFR) Furnaces used in the process of burning waste for the primary purpose of reducing the volume of the waste by removing combustible matter. (ESH) Engineered devices using controlled flame combustion to thermally degrade PCBs and PCB items. Examples of devices used for incineration include rotary kilns, liquid injection incinerators, cement kilns, and high-temperature boilers.

**INCOMPATIBLE WASTES**

- (SWDA; RCRA)
- DA October 19, 1990
- BT1 Hazardous Wastes
- BT2 Hazardous Materials
- BT3 Materials
- BT2 Wastes
- SO Environmental Management
- SO Wastes
- DEF (CFR) Hazardous wastes which are unsuitable for (1) placement in a particular device or facility because it may cause corrosion or decay of containment materials (e.g., container inner liners or tank walls); or (2) commingling with another waste or material under uncontrolled conditions because the commingling might produce heat or pressure, fire or explosion, violent reaction, toxic dusts, mists fumes, or gases or flammable fumes or gases. (See 40 CFR 265 Appendix V for examples.)

**INCONSISTENCIES**

- (DOE Order 5400.3)
- DA May 24, 1991
- RT Atomic Energy Act
- SO Wastes
- DEF (DOE 5400.3) Inconsistencies between RCRA and the AEA occurs if the requirements of both laws are incompatible. RCRA applies to hazardous or radioactive requirements of the AEA.

**INCREMENTS OF PROGRESS**

- (CAA; CFR)
- DA October 12, 1990
- SY Reasonable Further Progress
- RT Compliance Schedules
- RT Schedule of Compliance
- SO Air Pollution
- DEF (CFR) Steps toward compliance which will be taken by a specific source, including (1) date of submittal of the source's final control plan to the appropriate air pollution control agency; (2) date by which contracts for emission control systems or process modifications will be awarded; or date by which orders will be issued for the purchase of component

parts to accomplish emission control or process modification; (3) date of initiation of on-site construction or installation of emission control equipment or process change; (4) date by which on-site construction or installation of emission control equipment or process modification is to be completed; and (5) date by which final compliance is to be achieved.

**INCURRED LOSSES**

(SSDC)

DA October 12, 1990

BT1 Losses

RT Loss Ratio

SO System Safety Development Center Glossary

DEF (SSDC) Losses that have happened; includes amounts paid and reserved for future payments.

**INDEMNIFY**

(SSDC)

DA October 12, 1990

RT Compensation and Liability

RT Insurance

SO System Safety Development Center Glossary

DEF (SSDC) To reimburse an insured for loss.

**INDEPENDENT (SAFETY) REVIEWS**

(SSDC)

DA October 12, 1990

BT1 Safety Reviews

BT2 Reviews

BT3 Administrative Processes

BT4 Processes

SO System Safety Development Center Glossary

DEF (SSDC) Reviews performed by personnel organizationally independent of the operating group and groups performing primary safety analysis. Other criteria for good independent review would include being financially independent of the operating group, no personal interest in review decisions, using different analytical methods from those doing the primary safety analysis, etc.

**INDIAN GOVERNING BODIES**

(SWDA; RCRA)

DA October 19, 1990

BT1 Administrative Organizations

BT2 Organizations

RT Indian Tribes

SO Wastes

DEF (CFR) The governing bodies of tribes, bands, or groups of Indians subject to the jurisdiction of the United States and recognized by the United States as possessing power of self government.

**INDIAN LANDS**

(ARPA)

DA April 24, 1991

BT1 Natural Resources

BT1 Sites/Areas

RT Archaeological Resources Protection Act of 1979

RT Archaeological Resources

RT Indian Tribes

RT Public Lands

RT Targets

DEF (ARPA) Lands of Indian tribes, or Indian individuals, which are either held in trust by the United States or subject to a restriction against alienation imposed by the United States, except for any subsurface interests in lands not owned or controlled by an Indian tribe or an Indian individual.

**INDIAN TRIBES**

(SWDA; CERCLA; SDWA; ARPA; CFR)

DA October 12, 1990

BT1 States

RT Alaskan Natives

RT Archaeological Resources

RT Authorized Officials

RT Indian Governing Bodies

RT Indian Lands

RT Natural Resource Trustees

SO Compensation and Liability

SO Wastes

SO Water Pollution

DEF (CFR) Except in the case of RCRA, Indian tribes, bands, nations, or other organized groups or communities, including any Alaska Native village but not including any Alaska Native regional or village corporation, which are recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians and having a Federally recognized governing body carrying out substantial governmental duties and powers over a defined area. (ARPA) Any Indian tribe, band, nation, or other organized group or community, including any Alaska Native village or regional or village corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act (85 Stat.688).

**INDICATOR(S)**

(2756 INDICATOR)

DA January 3, 1991

BT1 Instrument(s)

BT2 Equipment/Parts - Instrumentation/Measuring (DOE FRASE Voc.)

BT3 Equipment

NT1 Ammeter(s)

NT1 Flow Meter(s)

NT1 Ohmmeter(s)

NT1 Potentiometer

NT1 Spectrometer(s)

NT1 Tachometer(s)

NT1 Thermoluminescent Dosimeters

NT1 Thermometer(s)

NT1 Volt Meter

RT Trouble Light

SO DOE FRASE VOCABULARY

**INDIRECT DISCHARGES**

(EPA)

DA October 12, 1990

BT1 Discharges

SO Environmental Management

SO Environmental Protection Agency Glossary

DEF (EPA) Introductions of pollutants from non-domestic sources into publicly owned waste treatment systems. Indirect dischargers can be commercial or industrial facilities whose wastes go into the local sewers.

**INDIRECTLY IONIZING PARTICLES**

(IAEA)

DA October 12, 1990

RT Directly Ionizing Particles

RT Ionization

SO Radiation

DEF (IAEA) Uncharged particles (neutrons, photons, etc.) which can liberate directly ionizing particles.

**INDIVIDUAL GENERATION SITES**

(SWDA; RCRA)

DA October 12, 1990

BT1 Sites/Areas

RT Hazardous Waste Generation

SO Environmental Management

SO Wastes

DEF (CFR) Contiguous sites at or on which one or more hazardous wastes are generated. Individual generation sites, such as large manufacturing plants, may have one or more sources of hazardous waste but are considered single or individual generation sites if the sites or properties are contiguous.

**INDIVIDUAL PERMITS**

(CAA; RHA; CFR; ESA)

DA October 12, 1990

BT1 Permits

SO Water Pollution

DEF (CFR) DA authorizations that are issued following a case-by-case evaluation of a specific structure or work in accordance with the procedures of this regulation and 33 CFR Part 325, and a determination that the proposed structure or work is in the public interest pursuant to 33 CFR Part 320.

**INDIVIDUAL PLANT EXAMINATION**

DA January 8, 1991

**SF IPE**

BT1 Administrative Procedures Act  
BT2 Acts  
BT3 Statutes and Regulations

**INDOOR AIR**

(EPA)

DA October 12, 1990

BT1 Air

RT Indoor Air Pollution

SO Environmental Protection Agency  
Glossary

DEF (EPA) The breathing air inside a habitable structure or conveyance.

**INDOOR AIR POLLUTION**

(EPA)

DA October 12, 1990

BT1 Air Pollution

BT2 Pollution

RT Indoor Air

RT Indoor Climate

SO Environmental Protection Agency  
Glossary

DEF (EPA) Chemical, physical, or biological contaminants in indoor air.

**INDOOR CLIMATE**

(EPA)

DA October 12, 1990

BT1 Environment

RT Indoor Air Pollution

SO Environmental Protection Agency  
Glossary

DEF (EPA) Temperature, humidity, lighting and noise levels in a habitable structure or conveyance. Indoor climate can affect indoor air pollution.

**INDUCED RADIOACTIVITY**

(IAEA)

DA October 12, 1990

BT1 Radioactivity

RT Activation (Nuclear)

SO Radiation

DEF (IAEA) Radioactivity produced within materials by nuclear reactions. (NRC Glossary of Terms: Nuclear Power and Radiation) Radioactivity that is created when stable substances are bombarded by ionizing radiation. For example, the stable isotope cobalt-59 becomes the radioactive isotope cobalt-60 under neutron bombardment.

**INDUCTIVELY COUPLED****PLASMA/MASS SPECTROMETER**

DA January 8, 1991

SF ICP/MS

**INDUSTRIAL BUILDINGS**

(TSCA; CFR)

DA October 12, 1990

BT1 Facilities

SO Hazardous Materials

DEF (CFR) Buildings directly used in manufacturing or technically productive enterprises. Industrial buildings are not generally or typically accessible to other than workers. Industrial buildings include buildings used directly in the production of power, the manufacture of products, the mining of raw materials, and the storage of textiles, petroleum products, wood and paper products, chemicals, plastics, and metals.

**INDUSTRIAL ENGINEERING**

DA January 8, 1991

SF IE (*Industrial Engineering*)**INDUSTRIAL FURNACES**

(SWDA; RCRA)

DA October 12, 1990

BT1 Facility Components

NT1 Glass Melting Furnaces

NT2 Pot Furnaces

RT Roasting

SO Environmental Management

SO Wastes

DEF (CFR) Any of the following enclosed devices that are integral components of manufacturing processes and that use controlled flame devices to accomplish recovery of materials or energy: cement kilns, lime kilns, aggregate kilns, phosphate kilns, coke ovens, blast furnaces, smelting, melting and refining furnaces (including pyrometallurgical devices such as cupolas, reverberator furnaces, sintering machine, roasters, and foundry furnaces), titanium dioxide chloride process oxidation reactors, methane reforming furnaces, pulping liquor recovery furnaces, combustion devices used in the recovery of sulfur values from sulfuric acid, and such other devices as the Administrator may, after notice and comment, add to this list.

**INDUSTRIAL HYGIENE**

(DOE Order 5480.10)

DA October 16, 1990

SF IH (*Industrial Hygiene*)

RT Environment, Safety, and Health (ES&amp;H) Program

RT Health Physics

RT Industrial Safety

RT Maintenance Management

DEF (DOE Order 5480.10) The science and art devoted to the recognition, evaluation, and control of environmental factors or stresses arising in or from the workplace that may cause sickness, impaired health and well-being, or significant discomfort and

inefficiency among workers or those with whom they come into contact.

**INDUSTRIAL RISK INSURERS**

DA January 8, 1991

SF IRI

**INDUSTRIAL SAFETY**

DA October 19, 1990

BT1 Safety

RT Buddy System

RT Critical Incident Technique

RT Critical Jobs (task)

RT Imminent Danger

RT Industrial Hygiene

RT Maintenance Management

RT Reported Significant Observations

**INDUSTRY DEGRADED CORE RULEMAKING PROGRAM**

DA January 8, 1991

SF IDCOR

BT1 Programs

**INEL**

DA October 12, 1990

SEE Idaho National Engineering  
Laboratory

SO Acronyms

**INERT ATMOSPHERE**

(NFI)

DA October 12, 1990

SY Blanket Gas

SO Nuclear Facilities Incident Database

SO Radiation

DEF (NFI) Use for blanket gas.

**INERT INGREDIENTS**

(USC; EPA)

DA October 12, 1990

RT Pesticides

RT Solvents

RT Surfactants

SO Environmental Management

SO Environmental Protection Agency  
Glossary

DEF (EPA) Pesticide components such as solvents, carriers, and surfactants that are not active against target pests. Not all inert ingredients are innocuous.

**INERTIAL SEPARATORS**

(EPA)

DA October 12, 1990

BT1 Devices

NT1 Cyclone Collectors

SO Environmental Protection Agency  
Glossary

DEF (EPA) Devices that use centrifugal force to separate waste particles.

**INFECTON**

(1325 INFECTION)

DA November 28, 1990

BT1 Injuries

RT Inflammation  
 RT Irritation  
 SO DOE FRASE VOCABULARY

**INFECTIOUS WASTES**

(SWDA; RCRA; ESH)  
 DA October 12, 1990  
 BT1 Wastes  
 RT Medical Wastes  
 RT Pathogens  
 RT Viruses  
 SO Environmental Management  
 SO Wastes  
 DEF (ESH) (1) Equipment, instruments, utensils, and fomites of a disposal nature from the rooms of patients who are suspected to have or who have been diagnosed as having a communicable disease and must therefore be isolated as required by public health agencies. (2) Laboratory wastes, such as pathological specimens (for example, all tissues, specimens of blood elements, excreta, and secretions obtained from patients or laboratory animals) and disposable fomites (any substance that may harbor or transmit pathogenic organisms) attendant thereto. (3) Surgical operating room pathological specimens and disposable fomites attendant thereto and similar disposal materials from outpatient areas and emergency rooms.

**INFILTRATION**

(EPA)  
 DA October 12, 1990  
 BT1 Biological Processes  
 BT2 Processes  
 RT Percolation  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) (1) The penetration of water through the ground surface into sub-surface soil or the penetration of water from the soil into sewer or other pipes through defective joints, connections, or manhole walls. (2) A land application technique where large volumes of waste water are applied to land, allowed to penetrate the surface and percolate through the underlying soil.

**INFLAMMATION**

(1326 INFLAMMATION)  
 DA November 28, 1990  
 BT1 Injuries  
 RT Infection  
 RT Irritation  
 SO DOE FRASE VOCABULARY

**INFLOW**

(EPA)  
 DA October 12, 1990

RT Gust Fronts  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Entry of extraneous rain water into a sewer system from sources other than infiltration, such as basement drains, manholes, storm drains, and street washing. (WINDS) Wind direction shifting abruptly toward the storm (inflow) as opposed to wind moving away from the storm (outflow).

**INFLUENTS**

(EPA)  
 DA October 12, 1990  
 BT1 Liquids  
 BT2 Fluids  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Water, wastewater, or other liquid flowing into a reservoir, basin, or treatment plant.

**INFORMAL CONSULTATION**

(ESA; CFR)  
 DA October 12, 1990  
 RT Conferences  
 RT Designated Non-Federal Representatives  
 RT Formal Consultation  
 RT Public Hearings  
 SO Endangered Species  
 DEF (CFR) An optional process that includes all discussions, correspondence, etc., between the Fish and Wildlife Service and the Federal agency or the designated non-Federal representative prior to formal consultation, if required.

**INFORMATION FILE**

(EPA)  
 DA October 12, 1990  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) In the Superfund program, a file that contains accurate, up-to-date documents on a Superfund site. The file is usually located in a public building such as a school, library, or city hall that is convenient for local residents.

**INFORMATION SYSTEMS**

DA February 12, 1991  
 BT1 Security Interests  
 BT1 Systems  
 NT1 Emergency Management Information System  
 NT1 Failure Reporting Analysis and Corrective Action System  
 NT1 Fire Protection Tracking System  
 NT1 Hazard Abatement Tracking System  
 NT1 Integrated Risk Information System  
 NT1 Nuclear Facilities Incident Database  
 NT1 Nuclear Materials Management and Standards System

NT1 Nuclear Plant Reliability Data System  
 NT1 Plant Risk Status Information Management System  
 NT1 Radiation Records Repositories  
 NT1 Real Property Inventory System  
 NT1 Safety Performance Measurement System  
 NT2 Chemical Hazards Emergency Management System  
 NT2 Computerized Accident/Incident Reporting System  
 NT2 Computer Assisted Tracking System  
 NT2 Occurrence Reporting and Processing System  
 NT2 Personnel Expertise and Resource Listing  
 NT2 Radiation Exposure Module  
 NT2 Standards Information Management System  
 NT2 Unusual Occurrence Reporting System  
 NT1 Secure Automatic Communications Network  
 NT1 Technical Information Systems  
 NT1 Ultrasonic Ranging and Data System  
 NT1 Waste Information Network  
 RT Atmospheric Release Advisory Capability  
 RT Control Systems  
 RT Emergency Systems  
 RT Software  
 SO Management

**INGESTION**

(IAEA)  
 DA October 12, 1990  
 BT1 Intake  
 BT2 Measurements  
 RT Digestion  
 SO Radiation  
 DEF (IAEA) Intake of material by way of the gastrointestinal system.

**INGESTION EXPOSURE PATHWAYS**

(EMER)  
 DA February 1, 1991  
 BT1 Exposure Pathways  
 BT2 Routes (Exposure)  
 RT Exposure  
 SO Emergency Preparedness  
 DEF (EMER) The pathways in which exposure occurs after ingestion of contaminated water or foods such as milk, fresh vegetables, or aquatic foodstuffs.

**INGRESS**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 RT Entry Control Points  
 SO Construction  
 DEF (DOE Order 6430.1A) The act of entering a structure or area through a point of access.

**INGROUND TANKS**

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Tanks  
 BT2 Facility Components  
 SO Environmental Management  
 SO Wastes  
 DEF (CFR) Devices meeting the definition of a "tank" whereby a portion of the tank wall is situated to any degree within the ground, thereby preventing visual inspection of that external surface area of the tank that is in the ground.

**INHABITED BUILDING DISTANCE**

(DOE Orders 5480.16 and 6430.1A)  
 DA October 12, 1990  
 BT1 Measurements  
 RT Explosives Buildings  
 RT Munitions  
 RT Occupied Area (Explosives)  
 RT Transients (re: Explosives Facilities)  
 SO Construction  
 SO Firearms  
 DEF (DOE Order 5480.16) The minimum distance permitted between locations containing munitions and inhabited buildings, administrative areas, site boundaries, main power stations, and other facilities of vital or strategic nature.

**INHALATION**

(IAEA)  
 DA October 12, 1990  
 BT1 Intake  
 BT2 Measurements  
 RT Aerosols  
 RT Air  
 RT Black Lung  
 RT Bronchial Epithelium  
 SO Radiation  
 DEF (IAEA) Intake of material by way of the respiratory system (including the material which will eventually go to the intestinal system).

**INHALATION LC 50**

DA January 24, 1991  
 SO Environmental Management  
 DEF (CFR) A concentration of a substance, expressed as milligrams per liter of air or parts per million parts of air, that is lethal to 50% of the test population of animals under test conditions as specified in the Registration Guidelines.

**INHALATION TOXICOLOGY RESEARCH INSTITUTE**

DA January 8, 1991  
 SF ITRI  
 BT1 Government-Owned Contractor-Operated Facilities  
 BT2 Federal Facilities

BT3 Facilities  
 BT1 Institutes  
 BT2 Research and Development Organizations  
 BT3 Organizations  
 RT Lovelace Medical Foundation  
 DEF (Capsule Review of DOE Research and Development and Field Facilities, 1986) Established in 1960, the primary mission of the ITRI is to assess adverse human health effects associated with commercial energy technologies. The Institute investigates the degree to which the inhalation of by-products of energy technologies such as fugitive or operating emissions may harm the health of operators or the general public.

**INITIAL STARTUP**

(Doe Order 5480.6)  
 DA October 12, 1990  
 BT1 Startup  
 BT2 Processes  
 SO Industrial Safety  
 DEF (DOE Order 5480.6) Includes those activities subsequent to preoperational testing, starting with the initial loading of fuel and involving all actions taken, including tests to assure a safe, orderly, incremental approach to predefined conditions of reactor operation.

**INITIATION STIMULI**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 RT Detonations  
 RT Explosives  
 RT Pyrophoric-Igniting Spontaneously  
 SO Construction  
 DEF (DOE Order 6430.1A) Energy input to an explosive in a form potentially capable of initiating a rapid decomposition reaction. Typical initiation stimuli are heat, friction, impact, electrical discharge, and shock. An initiator is a device that provides initiation stimuli (e.g., detonators, squibs, etc.).

**INJECTION**

(CFR)  
 DA October 19, 1990  
 BT1 Processes  
 NT1 Underground Injection  
 RT Plugging  
 RT Wells  
 SO Water Pollution  
 DEF (CFR) The forcing, under abnormal pressure, of sedimentary material (downward, upward, or laterally) into a pre-existing deposit or rock, either along some plane of weakness or into a crack or fissure (e.g., the transformation of

wet sands and silts to a fluid state and their emplacement in adjacent sediments, producing structures, such as sandstone dikes or sand volcanoes). Also a sedimentary structure or rock formed by injection. (Glossary of Geology)

**INJECTION INTERVAL**

(SWDA; RCRA; CFR)  
 DA October 12, 1990  
 BT1 Injection Zones  
 BT2 Formations  
 BT2 Zones  
 BT3 Sites/Areas  
 SO Wastes  
 SO Water Pollution  
 DEF (CFR) That part of the injection zone in which the well is screened, or in which the waste is otherwise directly emplaced.

**INJECTION WELLS**

(SWDA; RCRA; SDWA; CFR; EPA; ESH)  
 DA October 12, 1990  
 BT1 Wells  
 NT1 Class II Wells  
 NT2 Existing Class II Wells  
 NT2 New Class II Wells  
 NT1 Existing Injection Wells  
 RT Area of Review  
 RT Injection Zones  
 RT Well Injection  
 RT Well Stimulation  
 RT Well Workovers  
 SO Environmental Management  
 SO Environmental Protection Agency Glossary  
 SO Wastes  
 SO Water Pollution  
 DEF (CFR) Wells into which fluids are injected for purposes such as waste disposal, improving the recovery of crude oil, or solution mining.

**INJECTION ZONES**

(SDWA; CFR; ESH)  
 DA October 12, 1990  
 BT1 Formations  
 BT1 Zones  
 BT2 Sites/Areas  
 NT1 Injection Interval  
 RT Injection Wells  
 SO Environmental Protection Agency Glossary  
 SO Water Pollution  
 DEF (CFR) Geological formations, groups of formations, or parts of a formation receiving fluids through a well.

**INJURIES**

(DOE FRASE Vocabulary Numeric Keys 1300-1374)  
 DA January 17, 1991  
 NT1 Abrasion  
 NT1 Amputation

**NT1** Animal Bite  
**NT2** Snake Bite  
**NT1** Asphyxia  
**NT1** Avulsion  
**NT1** Blister(s)  
**NT1** Blood Clot  
**NT1** Bodily Injuries  
**NT1** Brain Damage  
**NT2** Concussion  
**NT2** Contusion(S)  
**NT1** Burn(s)  
**NT2** Chemical Burn(s)  
**NT2** Electrical Burn(s)  
**NT2** Flash Burn(s)  
**NT1** Bursitis  
**NT1** Damage to Prosthetic Device  
**NT1** Death  
**NT1** Dental Injury  
**NT1** Disabling Injuries  
**NT1** Dislocation  
**NT1** Drowning  
**NT1** Electric Shock  
**NT1** Electrocutation  
**NT1** Fracture  
**NT1** Heat Stroke/Other High Temp Effect  
**NT1** Hernia  
**NT1** Infection  
**NT1** Inflammation  
**NT1** Insect Sting  
**NT1** Internal Deposition  
**NT1** Irritation  
**NT1** Laceration  
**NT1** Loss of Consciousness  
**NT1** Loss of Condenser Vacuum  
**NT1** Multiple Injuries  
**NT1** No Personnel Injury  
**NT1** Nosebleed  
**NT1** Occupational Injuries  
**NT1** Physical Harm  
**NT1** Pinched Nerve  
**NT1** Puncture  
**NT1** Radiation Exposure  
**NT1** Ruptured Disk  
**NT1** Sprain  
**NT1** Strain  
**NT1** Strangulation  
**NT1** Torn Cartilage  
**RT** Diseases  
**RT** DOE FRASE Categories  
**RT** Effects  
**RT** Hospital  
**RT** Illnesses  
**SO** DOE FRASE VOCABULARY  
**DEF** Equivalent to the DOE FRASE Vocabulary Category "Nature of Injury".

**INJURY**  
 (1327 INJURY)  
**DA** November 28, 1990  
**RT** Illness  
**SO** DOE FRASE VOCABULARY

**INK**  
 (NFI)  
**DA** October 12, 1990  
**RT** Differential in Hours  
**SO** Nuclear Facilities Incident Database

**SO** Radiation  
**DEF** (NFI) Gadolinium nitrate, neutron absorber.

**INLAND WATERS**  
 (CERCLA; CFR)  
**DA** October 12, 1990  
**NT1** Lakes  
**NT2** Dystrophic Lakes  
**NT2** Eutrophic Lakes  
**NT2** Oligotrophic Lakes  
**RT** Ferry Vessels  
**RT** Inland Zones  
**RT** Specified Ports and Harbors  
**SO** Compensation and Liability  
**SO** Environmental Management  
**DEF** (CFR) For the purposes of classifying the size of discharges, means those waters of the U.S. in the inland zone, waters of the Great Lakes, and specified ports and harbors on inland rivers.

**INLAND ZONES**  
 (CERCLA; CFR)  
**DA** October 12, 1990  
**BT1** Zones  
**BT2** Sites/Areas  
**RT** Inland Waters  
**SO** Compensation and Liability  
**SO** Environmental Management  
**DEF** The environment inland of the coastal zone excluding the Great Lakes and specified ports and harbors of inland rivers. The term inland zone delineates the area of Federal responsibility for response action. Precise boundaries are determined by EPA/USCG (Environmental Protection Agency/U.S. Coast Guard) agreement and identified in Federal regional contingency plans.

**INNER HOUSING**  
**DA** January 8, 1991  
**SF** *IH (Inner Housing)*

**INNER LINERS**  
 (SWDA; RCRA)  
**DA** October 12, 1990  
**RT** Containers  
**RT** Liners  
**RT** Tanks  
**SO** Environmental Management  
**SO** Wastes  
**DEF** (CFR) Continuous layers of material placed inside tanks or containers which protect the construction materials of the tanks or containers from the contained waste or reagents used to treat the waste.

**INNER TARGETS**  
**DA** January 8, 1991  
**SF** *IT*

**INNOVATION DIFFUSION**  
 (SSDC)  
**DA** October 12, 1990  
**BT1** Administrative Processes  
**BT2** Processes  
**SO** System Safety Development Center Glossary  
**DEF** (SSDC) A structured, research-based, step-by-step process for developing acceptance of a new mode of behavior.

**INOCULA**  
 (EPA)  
**DA** October 12, 1990  
**RT** Bacteria  
**SO** Environmental Protection Agency Glossary  
**DEF** (EPA) (1) Bacteria placed in compost to start biological action. (2) A medium containing organisms which is introduced into cultures or living organisms.

**INORGANIC ARSENIC**  
 (CAA; CFR)  
**DA** October 12, 1990  
**RT** Arsenic Kitchens  
**RT** Commercial Arsenic  
**RT** Theoretical Arsenic Emissions Factor  
**RT** Uncontrolled Total Arsenic Emissions  
**SO** Air Pollution  
**DEF** (CFR) The oxides and other noncarbon compounds of the element arsenic included in particulate matter, vapors, and aerosols.

**INORGANIC CHEMICALS**  
 (EPA)  
**DA** October 12, 1990  
**BT1** Chemical Substances  
**NT1** Carbon Dioxide  
**NT1** Carbon Monoxide  
**NT1** Hydrogen Sulfide  
**NT1** Nitrogen Oxides (NO<sub>x</sub>)  
**NT2** Nitric Oxides  
**NT2** Nitrogen Dioxide (NO<sub>2</sub>)  
**SO** Environmental Protection Agency Glossary  
**DEF** (EPA) Chemical substances of mineral origin, not of basically carbon structure.

**INPO**  
**DA** October 12, 1990  
**SEE** Institute for Nuclear Power Operations  
**SO** Acronyms

**INSECT STING**  
 (1328 INSECT STING)  
**DA** November 28, 1990  
**BT1** Injuries  
**SO** DOE FRASE VOCABULARY

**INSECTICIDES**

(EPA)  
 DA October 12, 1990  
 BT1 Pesticides  
   BT2 Hazardous Substances  
 NT1 Aldicarb  
 NT1 DDT  
 NT1 Diazinon  
 NT1 Dicofof  
 NT1 Heptachlor  
 RT Insects  
 SO Environmental Management  
 SO Environmental Protection Agency  
   Glossary  
 DEF (EPA) Pesticide compounds specifically used to kill or control the growth of insects.

**INSECTS**

(USC)  
 DA November 15, 1990  
 BT1 Animals  
 RT Attractants  
 RT Insecticides  
 DEF (USC) Any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class insecta, comprising six-legged, usually winged forms, as for example, beetles, bugs, bees, flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as for example, spiders, mites, ticks, centipedes, and wood lice.

**INSENSITIVE HIGH EXPLOSIVES**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 SF IHE  
 BT1 High Explosives  
   BT2 Explosives  
 RT IHE Weapons  
 SO Construction  
 DEF (DOE Order 6430.1A) Explosive substances that, although mass detonating, are so insensitive that there is negligible probability of accidental initiation or transition from burning to detonation. The materials passing the DOE qualification tests in Table IX-1 of DOE/EV-06194 are classified as IHE, and are listed in Table IX-2 of the same document.

**INSPECTION AND EVALUATION**

(EMER)  
 DA February 1, 1991  
 BT1 Administrative Processes  
   BT2 Processes  
 RT Assessments  
 RT Reviews  
 RT Safety Program Reviews  
 SO Emergency Preparedness  
 DEF A documented review of the safeguards and security program activities, performed in accordance

with written guidance and criteria, to verify by examination and evaluation of objective evidence (including site visits) that applicable protection measures have been developed, documented, and effectively implemented in accordance with current U.S. Department of Energy safeguards and security policies, standards, and procedures, as modified by agreements contained in the Master Safeguards and Security Agreement.

**INSPECTION AND MAINTENANCE**

(EPA)  
 DA October 12, 1990  
 SF I/M  
 NT1 Surveillance and Maintenance  
 RT Secondary Environmental Monitor  
 SO Environmental Protection Agency  
   Glossary  
 DEF (EPA) (1) Activities to assure proper emissions related operation of mobile sources of air pollutants, particularly automobile emissions controls. (2) Also applies to wastewater treatment plants and other anti-pollution facilities and processes.

**INSPECTION PLANS**

(MORT)  
 DA April 3, 1991  
 RT Design and Development Plans  
 RT General Design Process  
 RT Human Factors  
 RT Inspections  
 RT Maintenance Plans  
 RT Operational Specifications  
 DEF (MORT) MORT analysis asks: is inspection of an operation or facility given consideration during the conceptual phase and on throughout the rest of the life cycle? is there an adequate inspection plan? was the plan scope broad enough to include all the areas that should be inspected? was management aware of those areas not included in the plan? was there adequate execution of the inspection plan?

**INSPECTION/MONITORING ACTIVITY**

(1235 IM ACTIVITY)  
 DA November 28, 1990  
 BT1 Activity Types (DOE FRASE Vocabulary)  
   BT2 Activities  
 SO DOE FRASE VOCABULARY

**INSPECTIONS**

(RCRA; TSCA; CFR; SSDC; MORT)  
 DA January 15, 1991  
 BT1 Administrative Processes  
   BT2 Processes  
 NT1 Compliance Inspections

NT1 Condition Assessment Surveys  
 NT1 Failed Instrument Component Inspection  
 NT1 Maintenance Team Inspection  
 NT1 Safety System Functional Inspection  
 NT1 Safety System Outage Modification Inspection  
 NT1 Site Inspections  
 RT Accuracy  
 RT Authorized Inspectors  
 RT Calibration  
 RT Controls  
 RT First Line Supervision  
 RT Higher Supervision  
 RT Inspection Plans  
 RT Installation Inspectors  
 RT Maintenance  
 RT Maintenance Management  
 RT Operability  
 RT Predictive Maintenance  
 RT Sampling  
 RT Security Inspectors  
 RT Technical Information  
 RT Technical Support  
 SO System Safety Development Center  
   Glossary  
 DEF (SSDC) Deliberate, systematic scrutiny or examinations of activities or projects; thorough, close critical examinations, checking or testing against established standards. (MORT) MORT analysis asks: was there adequate inspection of equipment, processes, utilities, operations, etc?

**INSPECTIONS (NUCLEAR)**

(DOE Order 5480.6; TSCA; CFR; SSDC)  
 DA October 12, 1990  
 BT1 Administrative Processes  
   BT2 Processes  
 RT Nuclear Criticality Safety  
 RT Nuclear Facilities  
 RT Nuclear Criticality  
 RT Safeguards  
 SO Industrial Safety  
 SO System Safety Development Center  
   Glossary  
 DEF (DOE Order 5480.6) Deliberate and systematic examinations at the reactors including, but not limited to, physical inspection of reactor systems, operating and maintenance procedures, logs, records, and reactor operations.

**INSPECTOR FOLLOW-UP ITEMS**

DA January 8, 1991  
 SF IFI

**INSTALLATION INSPECTORS**

(SWDA; RCRA)  
 DA October 19, 1990  
 BT1 Technically Qualified Individuals  
   BT2 Personnel  
 RT Inspections  
 RT Tank Systems  
 SO Environmental Management

**SO Wastes**  
**DEF (CFR)** People, who, by reason of their knowledge of the physical sciences and the principles of engineering, acquired by a professional education and related practical experience, are qualified to supervise the installation of tank systems.

**INSTALLATIONS**

(CAA; CFR)  
**DA** October 12, 1990  
**RT** Equipment  
**SO** Air Pollution  
**DEF (CFR)** Identifiable pieces of process equipment.

**INSTALLED EQUIPMENT**

(DOE Order 4330.4A)  
**DA** June 4, 1991  
**BT1** Equipment  
**SO** Construction  
**SO** Management  
**DEF (DOE Order 4330.4A)** Includes the mechanical and electrical systems that are installed as part of basic building construction and are essential to the normal functioning of the facility and its intended use. Examples are heating, ventilating, and air conditioning (HVAC) systems; elevators; and communications systems.

**INSTITUTE FOR NUCLEAR POWER OPERATIONS**

**DA** January 8, 1991  
**SF** *INPO*  
**BT1** Institutes  
**BT2** Research and Development Organizations  
**BT3** Organizations

**INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS**

**DA** January 8, 1991  
**SF** *IEEE*  
**BT1** Institutes  
**BT2** Research and Development Organizations  
**BT3** Organizations

**INSTITUTES**

**DA** February 1, 1991  
**BT1** Research and Development Organizations  
**BT2** Organizations  
**NT1** American National Standards Institute  
**NT1** American Petroleum Institute  
**NT1** Battelle Memorial Institute  
**NT1** Electric Power Research Institute  
**NT2** Nuclear Safety Analysis Center  
**NT1** Inhalation Toxicology Research Institute  
**NT1** Institute of Electrical and Electronic Engineers

**NT1** Institute for Nuclear Power Operations  
**NT1** Midwest Research Institute  
**NT1** National Institute for Occupational Safety and Health  
**NT1** National Institute of Standards and Testing  
**SO** Management  
**DEF (WEBSTER)** An organization existing for the promotion of a cause or discipline.

**INSTITUTION CONTROL**

**DA** January 24, 1991  
**BT1** Controls  
**RT** Waste Management  
**SO** Environmental Management  
**DEF (DOE 5820.2A)** A period of time, assumed to be about 100 years, during which human institutions continue to control waste management facilities.

**INSTITUTIONAL SOLID WASTES**

**DA** January 29, 1991  
**BT1** Solid Wastes  
**BT2** Wastes  
**SO** Environmental Management  
**DEF (CFR)** Solid Wastes generated by educational, health care, correctional, and other institutional facilities.

**INSTREAM USE**

(EPA)  
**DA** October 12, 1990  
**BT1** Uses  
**SO** Environmental Protection Agency Glossary  
**DEF (EPA)** Water use taking place within a stream channel, e.g., hydro-electric power generation, navigation, water quality.

**INSTRUMENT(S)**

(2757 INSTRUMENT)  
**DA** January 3, 1991  
**BT1** Equipment/Parts - Instrumentation/Measuring (DOE FRASE Voc.)  
**BT2** Equipment  
**NT1** Gauge(s)  
**NT2** Scale(s)  
**NT2** Straight Edge Ruler  
**NT2** Thermostat(s)  
**NT2** Time Clock  
**NT1** Graphitar(s)  
**NT1** Indicator(s)  
**NT2** Ammeter(s)  
**NT2** Flow Meter(s)  
**NT2** Ohmmeter(s)  
**NT2** Potentiometer  
**NT2** Spectrometer(s)  
**NT2** Tachometer(s)  
**NT2** Thermoluminescent Dosimeters  
**NT2** Thermometer(s)  
**NT2** Volt Meter  
**NT1** Level Alarm  
**NT1** Log N Recorder

**NT1** Ram(s)  
**NT1** Recorder  
**NT1** Testing Equipment  
**NT2** Heat Detector  
**NT2** Leak Detector  
**NT2** Oscilloscope(s)  
**NT2** Scintillation Probe(s)  
**NT2** Sensor(s)  
**SO** DOE FRASE VOCABULARY

**INSTRUMENT AIR**

**DA** January 8, 1991  
**SF** *IA (Instrument Air)*

**INSTRUMENT AIR SYSTEM**

(2037 IAS)  
**DA** December 10, 1990  
**BT1** Systems (DOE FRASE Vocabulary)  
**BT2** Systems  
**SO** DOE FRASE VOCABULARY

**INSTRUMENTATION AND CONTROL**

**DA** January 8, 1991  
**SF** *I&C*  
**BT1** Controls

**INSULATED URANIUM OXIDE**

**DA** January 8, 1991  
**SF** *IRO*

**INSULATOR**

(2436 INSULATOR)  
**DA** January 3, 1991  
**BT1** Equipment/Parts - Electrical (DOE FRASE Vocabulary)  
**BT2** Equipment  
**SO** DOE FRASE VOCABULARY

**INSULIN REACTION**

(1393 INSULIN REAC)  
**DA** November 28, 1990  
**BT1** Illnesses  
**RT** Chemical Reaction  
**SO** DOE FRASE VOCABULARY

**INSURANCE**

(CERCLA; USC)  
**DA** October 12, 1990  
**RT** Factory Mutual  
**RT** Indemnify  
**RT** Liabilities  
**RT** Risks  
**SO** Compensation and Liability  
**DEF (USC)** Primary insurance, excess insurance, reinsurance, surplus lines insurance, and any other arrangement for shifting and distributing risk which is determined to be insurance under applicable State or Federal law.

**INTAKE**

(EPA; IAEA)  
**DA** October 12, 1990  
**BT1** Measurements  
**NT1** Acceptable Daily Intake  
**NT1** Annual Limit on Intake  
**NT1** Ingestion

**NT1 Inhalation**  
**NT1 Radioactive Nuclide Intake**  
*RT* Acceptable Intake for Chronic Exposure  
*RT* Acceptable Intake for Subchronic Exposure  
*RT* Uptake  
*SO* Environmental Protection Agency Glossary  
*SO* Radiation  
**DEF** (EPA) (1) A measure of exposure expressed as the mass of substance in contact with the exchange boundary per unity body weight per unit time (e.g., mg/kg-day). Also termed the normalized exposure rate. (2) The amount of radioactive material taken into the body by inhalation, absorption through the skin, ingestion, or through wounds.

**INTANGIBLE RISKS**

(SSDC)  
*DA* October 12, 1990  
*BT1* Risks  
*SO* System Safety Development Center Glossary  
**DEF** (SSDC) Those risks for which it is usually not possible to determine dollar values, such as public opinion, employee morale, etc.

**INTEGRAL VISTA**

(CAA; CFR)  
*DA* November 15, 1990  
**NT1** Visibility in any Mandatory Class I Federal Area  
*RT* Mandatory Class I Federal Areas  
*RT* Visibility Impairments  
*SO* Air Pollution  
**DEF** (CFR) Views perceived from within the mandatory Class I Federal area of specific landmarks or panoramas located outside the boundary of the mandatory Class I Federal area.

**INTEGRATED DATA BASE**

*DA* January 8, 1991  
*SF* *IDB*

**INTEGRATED LEAK RATE TEST**

*DA* January 8, 1991  
*SF* *ILRT*

**INTEGRATED LOGISTICS SUPPORT**

*DA* January 8, 1991  
*SF* *ILS*

**INTEGRATED PEST MANAGEMENT**

(EPA)  
*DA* October 12, 1990  
*SF* *IPM*  
*SO* Environmental Protection Agency Glossary  
**DEF** (EPA) A mixture of pesticide and non-pesticide methods to control pests.

**INTEGRATED RISK INFORMATION SYSTEM**

(EPA)  
*DA* October 12, 1990  
*SF* *IRIS*  
*BT1* Information Systems  
*BT2* Security Interests  
*BT2* Systems  
*RT* Risk Assessment  
*SO* Environmental Protection Agency Glossary  
**DEF** (EPA) IRIS is an EPA data base containing verified RfDs (Reference Doses) and slope factors and up-to-date health risk and EPA regulatory information for numerous chemicals. IRIS is EPA's preferred source for toxicity information for Superfund.

**INTERAGENCY AGREEMENT**

*DA* January 8, 1991  
*SF* *IAG*  
*BT1* Agreements  
**NT1** Federal Facilities Compliance Agreement

**INTERAGENCY COMMITTEE ON STANDARDS POLICY**

(Doe Order 1300.2)  
*DA* October 12, 1990  
*BT1* Committees  
*BT2* Administrative Organizations  
*BT3* Organizations  
*RT* Government Standards  
*SO* Management  
*SO* Standards  
**DEF** (DOE Order 1300.2) A committee established under the auspices of the Department of Commerce to coordinate and provide policy guidance to the heads of Federal agencies on standards. It is comprised of representatives from the major Federal departments and agencies which have an interest in standards. The Committee is chaired by the Deputy Assistant Secretary for Product Standards, Office of the Assistant Secretary for Productivity, Technology and Innovation, U.S. Department of Commerce.

**INTERAGENCY GROUP ON ENERGY VULNERABILITY**

*DA* January 24, 1991  
*BT1* Groups  
*BT2* Administrative Organizations  
*BT3* Organizations  
*RT* Emergency Preparedness  
*SO* Environmental Management  
**DEF** (DOE 5500 5.1) The Interagency Group on Energy Vulnerability (IG-EV) is a forum chartered under the Senior Interagency Group for National Security Decision Directive (NSDD) 188, "Government Coordination for

National Security Emergency Preparedness." It consists of senior representatives with national security emergency preparedness responsibilities from departments and agencies. The IG-EV facilitates government-wide coordination of national policy issues relating to the vulnerability of US energy systems in advance of crises and coordinates crisis assessments and response recommendations in an emergency.

**INTERAGENCY RADIOLOGICAL ASSISTANCE PLANS**

(EMER)  
*DA* February 1, 1991  
*BT1* Plans  
*SO* Emergency Preparedness  
**DEF** (EMER) This has been superseded by the Federal Radiological Monitoring and Assessment Plan (FRMAP).

**INTERCEPTOR SEWERS**

(EPA)  
*DA* October 12, 1990  
*BT1* Sewers  
*SO* Environmental Protection Agency Glossary  
**DEF** (EPA) Large sewer lines that, in a combined system, control the flow of the sewage to the treatment plant. In a storm, they allow some of the sewage to flow directly into a receiving stream, thus preventing an overload by a sudden surge of water into the sewers. They are also used in separate systems to collect the flows from main and trunk sewers and carry them to treatment points.

**INTERFACE CONTROL UNIT**

*DA* January 8, 1991  
*SF* *ICU*  
*BT1* Controls

**INTERFACES**

(DOE Order 6430.1A)  
*DA* October 12, 1990  
*RT* Human Factors Engineering  
*RT* Work Environment  
*SO* Construction  
**DEF** (DOE Order 6430.1A) The relationships between two or more system components, or between the work environment and one or more system components. Human performance is a function of the physical interfaces between people and equipment; the environments within which people or equipment work; the type and amount of training people receive; the accuracy and ease of use of the procedures people are given

for guidance; and the effectiveness of the organizations in which people work.

before issuing a record of decision (ROD).

product, provided that the PMN for the intermediate is submitted to EPA at the same time.

#### INTERFERENCES

DA January 24, 1991  
 BT1 Discharges  
 SO Environmental Management  
 DEF (CFR) The term "interference" means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both: (1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and (2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

#### INTERIM (PERMIT) STATUS

(EPA)  
 DA October 12, 1990  
 SF Part B Permits  
 SF Part A Permits  
 BT1 Permits  
 RT Permit (RCRA)  
 RT Treatment, Storage, and Disposal Facilities  
 SO Environmental Management  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Period during which treatment, storage and disposal facilities coming under RCRA in 1980 are temporarily permitted to operate while awaiting denial or issuance of a permanent permit. Permits issued under these circumstances are usually called "Part A" or "Part B" permits.

#### INTERIM ACTIONS

(DOE Order 5440.1D; NEPA)  
 DA May 14, 1991  
 BT1 Actions  
 BT2 Responses  
 RT Environmental Impact Statements  
 SO Environmental Management  
 DEF (DOE Order) Actions that are within the scope of an ongoing Environmental Impact Statement and that DOE propose to take

#### INTERIM AUTHORIZATIONS

(SWDA; RCRA)  
 DA October 12, 1990  
 BT1 Permits  
 RT State/EPA Agreements  
 RT Test Authorizations  
 SO Environmental Management  
 SO Wastes  
 DEF (CFR) Approval by EPA of a State hazardous waste program which has met the requirements of section 3006(c) of RCRA and applicable requirements of 40 CFR Part 271, Subpart B.

#### INTERIM RELIABILITY EVALUATION PROGRAM

DA January 8, 1991  
 SF IREP  
 BT1 Programs

#### INTERLOCK SYSTEM

(2038 INTERLOCK SY)  
 DA December 10, 1990  
 BT1 Systems (DOE FRASE Vocabulary)  
 BT2 Systems  
 SO DOE FRASE VOCABULARY

#### INTERMEDIATE COVER

DA January 24, 1991  
 BT1 Cover Materials  
 BT2 Materials  
 RT Daily Cover  
 SO Environmental Management  
 DEF (CFR) Cover material that serves the same functions as daily cover but must resist erosion for a longer period of time, because it is applied on areas where additional cells are not to be constructed for extended period of time.

#### INTERMEDIATE MOMENT RESISTING SPACE FRAME

(SEA)  
 DA October 12, 1990  
 BT1 Moment Resisting Space Frame  
 BT2 Space Frames  
 BT3 Structures (DOE FRASE Vocabulary)  
 RT Dual Systems  
 SO Construction  
 DEF (SEA) A concrete space frame design.

#### INTERMEDIATE PRE-MANUFACTURE NOTICES

DA January 24, 1991  
 BT1 Pre-Manufacture Notices  
 BT2 Section 5 Notices  
 SO Environmental Management  
 DEF (CFR) Any PMN submitted to EPA for a chemical substance which is an intermediate (as "intermediate" is defined in P.L. 720.3 of this chapter) in the production of a final

#### INTERMEDIATES

DA January 29, 1991  
 BT1 Chemical Substances  
 NT1 Nitrites  
 NT1 Non-Isolated Intermediates  
 NT1 Site-Limited Intermediates  
 SO Environmental Management  
 DEF (CFR) Chemical substances that are consumed, in whole or in part, in chemical reactions used for the intentional manufacture of other chemical substances or mixtures or that is intentionally present for the purpose of altering the rates of such chemical reactions.

#### INTERMITTENT CONTROL SYSTEM

(CAA; CFR)  
 DA October 12, 1990  
 SF ICS  
 BT1 Control Systems  
 BT2 Controls  
 BT2 Systems  
 BT1 Dispersion Techniques  
 SO Air Pollution  
 DEF (CFR) A dispersion technique which varies the rate at which pollutants are emitted to the atmosphere according to meteorological conditions and/or ambient concentrations of the pollutant, in order to prevent ground-level concentrations in excess of applicable ambient air quality standards. Such a dispersion technique is an ICS whether used alone, used with other dispersion techniques, or used as a supplement to continuous emission controls (i.e., used as a supplemental control system).

#### INTERMODAL PORTABLE TANKS

DA June 3, 1991  
 BT1 Portable Tanks  
 BT2 Tanks  
 BT3 Facility Components  
 RT International Shipments  
 SO Hazardous Materials  
 DEF Specific class of portable tanks designed primarily for international intermodal use.

#### INTERMUNICIPAL AGENCIES

(SWDA; RCRA; USC)  
 DA October 19, 1990  
 BT1 Local Agencies  
 BT2 Agencies  
 BT3 Administrative Organizations  
 BT4 Organizations  
 RT Solid Waste Management  
 SO Wastes  
 DEF (USC) Agencies established by two or more municipalities with

responsibility for planning or administration of solid waste.

**INTERNAL APPRAISALS**

(DOE Order 5482.1B)  
 DA October 12, 1990  
 BT1 Management Appraisals  
 BT2 Appraisals  
 RT Management Appraisals  
 SO Construction  
 SO Environmental Management  
 SO Management  
 DEF (DOE Order 5482.1B) Examinations and evaluations by the operating level (either Federal or contractor) of those portions of its internal ES&H program, program plan implementation, and operations retained under its direct control.

**INTERNAL AUDITS**

(SSDC)  
 DA October 12, 1990  
 SY Audits (SSDC)  
 BT1 Audits (SSDC)  
 BT2 Administrative Processes  
 BT3 Processes  
 SO System Safety Development Center Glossary  
 DEF (SSDC) See "Audits".

**INTERNAL CONVERSION**

**RADIOISOTOPES**  
 DA March 29, 1991  
 BT1 Radionuclides  
 BT2 CERCLA Hazardous Substances  
 BT3 Hazardous Substances  
 BT2 Nuclides  
 NT1 Cesium 134  
 NT1 Cobalt 60  
 NT1 Cobalt 58

**INTERNAL DEPOSITION**

(1344 INT DEPOSITI)  
 DA November 28, 1990  
 BT1 Injuries  
 SO DOE FRASE VOCABULARY

**INTERNAL FISSION COUNTER**

DA January 8, 1991  
 SF IFC  
 BT1 Radiation Detectors  
 BT2 Equipment

**INTERNAL GAMMA FLUX MONITOR**

DA January 8, 1991  
 SF IGF  
 BT1 Monitors  
 BT2 Equipment  
 BT1 Radiation Detectors  
 BT2 Equipment

**INTERNAL SECURITY REPORTS**

(EMER)  
 DA February 1, 1991  
 BT1 Reports  
 RT Threats

SO Emergency Preparedness  
 DEF (EMER) Field office periodic reports submitted to the Safeguards and Security Division director concerning known or suspected potential threats to U.S. Department of Energy (DOE) and DOE contractors.

**INTERNATIONAL BUSINESS**

**MACHINES**  
 DA January 8, 1991  
 SF IBM  
 BT1 Companies  
 BT2 Commercial Organizations  
 BT3 Organizations

**INTERNATIONAL SHIPMENTS**

(SWDA; RCRA)  
 DA October 12, 1990  
 RT Intermodal Portable Tanks  
 RT Transport (Hazardous Substances)  
 SO Environmental Management  
 SO Wastes  
 DEF (CFR) The transportation of hazardous waste into or out of the jurisdiction of the United States.

**INTERNATIONAL SYSTEM OF UNITS**

(DOE Order 5900.2)  
 DA October 16, 1990  
 SY Metric System  
 SO Quality Assurance  
 DEF (DOE Order 5900.2) The system popularly known as the modernized metric system is a coherent system of units based upon and including the meter (length), kilogram (mass), second (time), kelvin (temperature), ampere (electric current), candela (luminous intensity) and mole (amount of a substance). The radian (plane angle) and the steradian (solid angle) are supplemental units of the system.

**INTERSECTION**

(1611 INTERSECTION)  
 DA December 10, 1990  
 BT1 Site (DOE FRASE Vocabulary)  
 BT2 Sites/Areas  
 RT Highway  
 SO DOE FRASE VOCABULARY

**INTERSTATE AGENCIES**

(SWDA; RCRA; CFR; USC)  
 DA October 12, 1990  
 BT1 State Agencies  
 BT2 Agencies  
 BT3 Administrative Organizations  
 BT4 Organizations  
 NT1 Interstate Air Pollution Control Agencies  
 RT Solid Waste Management  
 SO Wastes  
 SO Water Pollution  
 DEF (CFR) Any agencies of two or more States established by or under an

agreement or compact approved by the Congress, or any other agencies of two or more States or Indian tribes having substantial powers or duties pertaining to the control of pollution as determined and approved by the Administrator under the "appropriate Act and regulations." (USC) Agencies of two or more municipalities in different States, or agencies established by two or more States, with authority to provide for the management of solid wastes and serving two or more municipalities located in different States.

**INTERSTATE AIR POLLUTION CONTROL AGENCIES**

(CAA; USC)  
 DA October 12, 1990  
 BT1 Air Pollution Control Agencies  
 BT2 State Agencies  
 BT3 Agencies  
 BT4 Administrative Organizations  
 BT5 Organizations  
 BT1 Interstate Agencies  
 BT2 State Agencies  
 BT3 Agencies  
 BT4 Administrative Organizations  
 BT5 Organizations  
 SO Air Pollution  
 DEF (CAA) (1) Air pollution control agencies established by two or more States, or (2) air pollution control agencies of two or more municipalities located in different States.

**INTERSTATE CARRIER WATER SUPPLIES**

(EPA)  
 DA October 12, 1990  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Sources of water for drinking and sanitary use on planes, buses, trains, and ships operating in more than one state. These sources are federally regulated.

**INTERSTATE WATERS**

(EPA)  
 DA October 12, 1990  
 BT1 Water  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) Waters that flow across or form part of state or international boundaries, e.g., the Great Lakes, the Mississippi River, or coastal waters.

**INTERSTITIAL MONITORING**

(EPA)  
 DA October 12, 1990  
 BT1 Monitoring  
 BT2 Activities

SO Environmental Protection Agency Glossary  
 DEF (EPA) The continuous surveillance of the space between the walls of an underground storage tank.

**INTERVENTION LEVELS**

(IAEA)  
 DA November 20, 1990  
 SY Emergency Reference Levels  
 SY Protective Action Guides  
 BT1 Reference Levels  
 RT Positive Data  
 SO Radiation  
 DEF (IAEA) Levels usually specified in advance by the competent authority or management for use in abnormal situations: if the value of the quantity of interest exceeds or is predicted to exceed a particular level, the appropriate remedial action may have to be taken. Also referred to as Protective Actions Guides (PAG) or Emergency Reference Levels (ERL).

**INTRALINE SEPARATION (BARRICADED)**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 BT1 Quantity Distances  
 BT2 Measurements  
 SO Construction  
 DEF (DOE Order 6430.1A) The minimum quantity-distance separation allowed between buildings as described in the paragraph below when an effective barricade (as defined in DOD 6055.9) is interposed between buildings. The distance is one-half the unbarricaded intraline separation. This distance (corresponding to approximately 82.7Kpa (12 psi) peak overpressure for Class 1.1 explosives) shall be determined based on the maximum explosives weight, using the tables in DOD 6055.9.

**INTRALINE SEPARATION (UNBARRICADED)**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 BT1 Quantity Distances  
 BT2 Measurements  
 SO Construction  
 DEF (DOE Order 6430.1A) The minimum quantity-distance separation allowed between explosives buildings on a plant site unless equivalent protection to personnel and property is provided by building design and construction, or a barricade. This distance (corresponding to approximately 24kPa (3.5 psi) peak overpressure for Class 1.1 explosives) shall be determined

based on the maximum explosives weight, using the tables in DOD 6055.9.

**INTRUDER BARRIERS**

(ANL: CFR)  
 DA May 24, 1991  
 BT1 Barriers  
 SO Industrial Safety  
 SO Wastes  
 DEF (CFR) A sufficient depth of cover over the waste that inhibits contact with waste and helps to ensure that radiation exposures to an inadvertent intruder will meet the performance objectives set forth in this part, or engineered structures that provide equivalent protection to the inadvertent intruder.

**INTRUSION ALARM SYSTEM (PERIMETER OR INTERIOR)**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 BT1 Alarms  
 BT2 Devices  
 BT1 Detection Equipment  
 BT2 Equipment  
 BT1 Emergency Systems  
 BT2 Systems  
 SO Construction  
 DEF (DOE Order 6430.1A) Detection hardware and/or software composed of sensors, alarm assessment systems, and alarm reporting systems (including alarm communications and information display equipment).

**INVENTORY OF OPEN DUMPS**

DA January 24, 1991  
 RT Open Dumps  
 SO Environmental Management  
 DEF (CFR) The inventory required under section 4005(b) and is defined as the list published by EPA of those disposal facilities which do not meet the criteria.

**INVERSE SQUARE LAW**

(NIH)  
 DA October 12, 1990  
 SO Radiation  
 DEF (NIH) The intensity of radiation at any distance from a point source varies inversely as the square of that distance. For example: If the radiation exposure is 100 R/hr at 1 inch from a source, the exposure will be 0.01 R/hr at 100 inches.

**INVERSION**

(EPA)  
 DA October 12, 1990  
 RT Air Mass  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) An atmospheric condition caused by a layer of warm air

preventing the rise of cooling air trapped beneath it. This prevents the rise of pollutants that might otherwise be dispersed and can cause an air pollution episode.

**INVERTED SIPHONS**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 SO Construction  
 DEF (DOE Order 6430.1A) Pressure pipelines crossing under a highway or other obstruction.

**INVESTIGATION LEVELS**

(IAEA)  
 DA November 20, 1990  
 BT1 Reference Levels  
 SO Radiation  
 DEF (IAEA) Levels for the values of quantities (such as dose equivalent, intake, contamination per unit area, etc.) above which further investigations are considered to be justified.

**INVESTIGATION REPORT**

(DOE Order 5484.1)  
 DA October 12, 1990  
 BT1 Reports  
 RT Investigations  
 SO Management  
 DEF (DOE Order 5484.1) A clear and concise written account of the results of an investigation.

**INVESTIGATIONS**

(DOE Order 5484.1)  
 DA October 12, 1990  
 BT1 Administrative Processes  
 BT2 Processes  
 NT1 Remedial Investigations  
 NT2 RCRA Remedial Investigation  
 NT1 Special Health Supervision  
 RT Findings  
 RT Investigation Report  
 RT Occurrences  
 RT Trained Investigators  
 SO Management  
 SO System Safety Development Center Glossary  
 DEF (DOE Order 5484.1) Detailed, systematic searches to uncover the "who, what, when, where, why, and how" of occurrences and to determine what corrective actions are needed in order to prevent a recurrence.

**IODINE 131**

(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 Days Living Radioisotopes  
 BT2 Radionuclides  
 BT3 CERCLA Hazardous Substances  
 BT4 Hazardous Substances  
 BT3 Nuclides  
 SO Radiation

**ION EXCHANGE**

(DOE Order 6430.1A)  
 DA October 12, 1990  
 SF IX  
 RT Desalinization  
 RT Ion Exchange Treatment  
 SO Construction  
 DEF (DOE Order 6430.1A) A chemical reaction used in water or wastewater treatment processes in which mobile dehydrated ions of a solid are exchanged (with ions of like charge in solution).

**ION EXCHANGE COLUMN**

(2574 ION EXCHANGE)  
 DA January 3, 1991  
 BT1 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)  
 BT2 Equipment  
 BT2 Reactor Components  
 SO DOE FRASE VOCABULARY

**ION EXCHANGE TREATMENT**

(EPA)  
 DA October 12, 1990  
 BT1 Treatment  
 BT2 Waste Management Processes  
 BT3 Processes  
 RT Ion Exchange  
 SO Environmental Protection Agency Glossary  
 DEF (EPA) A common water-softening method often found on a large scale at water purification plants that remove some organics and radium by adding calcium oxide or calcium hydroxide to increase the pH to a level where the metals will precipitate out.

**ION PUMP**

(2575 ION PUMP)  
 DA January 3, 1991  
 BT1 Equipment/Parts - Nuclear (DOE FRASE Vocabulary)  
 BT2 Equipment  
 BT2 Reactor Components  
 BT1 Pump(s)  
 BT2 Machines (DOE FRASE Vocabulary)  
 BT3 Equipment  
 SO DOE FRASE VOCABULARY

**IONIZATION**

(NIH)  
 DA October 12, 1990  
 BT1 Processes  
 RT Directly Ionizing Particles  
 RT Indirectly Ionizing Particles  
 RT Ionization Chambers  
 RT Ionizing Radiation

RT Ions  
 RT Kerma  
 RT Linear Energy Transfer  
 RT Specific Ionization  
 SO Radiation  
 DEF (NIH) The process by which a neutral atom or molecule acquires either a positive or negative charge.

**IONIZATION CHAMBERS**

(EPA; NIH; EMER)  
 DA October 12, 1990  
 BT1 Radiation Detectors  
 BT2 Equipment  
 RT Ionization  
 RT Ionizing Radiation  
 SO Emergency Preparedness  
 SO Environmental Protection Agency Glossary  
 SO Radiation  
 DEF (EPA) Devices that measure the intensity of ionizing radiation. (NIH) Instruments designed to measure the quantity of ionizing radiation in terms of the charge of electricity associated with ions produced within a defined volume.

**IONIZING RADIATION**

(EPA; NIH; IAEA; EMER)  
 DA October 12, 1990  
 BT1 Radiation  
 NT1 Background Radiation  
 NT1 Gamma Radiation  
 NT1 Lethal Dose of Radiation  
 NT1 X-rays  
 RT Absorbed Dose  
 RT Absorbed Dose Rate  
 RT Alpha Particles  
 RT Alpha Rays  
 RT Beta Particles  
 RT Beta Rays  
 RT Environmental Exposure  
 RT Exposure  
 RT Genetic Radiation Effects  
 RT Ionization  
 RT Ionization Chambers  
 RT Occupational Doses  
 RT Radiation Shields  
 SO Emergency Preparedness  
 SO Environmental Protection Agency Glossary  
 SO Radiation  
 DEF (EPA) Radiations that can remove electrons from atoms, i.e., alpha, beta, and gamma radiation. (NIH) Any electromagnetic or particulate radiations capable of producing ions, directly or indirectly, in their passage through matter. (IAEA) For the purposes of radiation protection, radiations capable of producing ion pairs in biological material(s).

**IONIZING RADIATION EFFECTS**

(1394 IONIZ RAD EF)  
 DA November 28, 1990  
 BT1 Effects

BT1 Illnesses  
 SO DOE FRASE VOCABULARY

**IONS**

(EPA; NIH)  
 DA October 12, 1990  
 BT1 Charged Particles  
 RT Ionization  
 SO Environmental Protection Agency Glossary  
 SO Radiation  
 DEF (EPA) Electrically charged atoms or groups of atoms which can be drawn from waste water during the electro dialysis process. (NIH) Atomic particles, atoms, or chemical radicals bearing an electrical charge, either negative or positive.

**IORV**

DA October 12, 1990  
 SEE Inadvertently Opened Relief Valve  
 SO Acronyms

**IOWA STATE UNIVERSITY**

DA January 11, 1991  
 BT1 Universities  
 BT2 Educational Organizations  
 BT3 Organizations  
 RT Chicago Operations Office

**IP**

DA May 14, 1991  
 SEE EIS Implementation Plans  
 SO Acronyms

**IPE**

DA October 12, 1990  
 SEE Individual Plant Examination  
 SO Acronyms

**IPM**

DA October 12, 1990  
 SEE Integrated Pest Management  
 SO Acronyms

**IR CIRCUIT**

(NFI)  
 DA October 12, 1990  
 SO Nuclear Facilities Incident Database  
 SO Radiation  
 DEF (NFI) Powers all the scram relays.

**IREP**

DA October 12, 1990  
 SEE Interim Reliability Evaluation Program  
 SO Acronyms

**IRI**

DA October 12, 1990  
 SEE Industrial Risk Insurers  
 SO Acronyms

**IRIS**

DA October 12, 1990

*SEE* Integrated Risk Information System  
*SO* Acronyms

*IRO*  
 DA October 12, 1990  
*SEE* Insulated Uranium Oxide  
*SO* Acronyms

**IRON**  
 DA January 8, 1991  
 SF *Fe* (*Periodic Element*)

**IRRADIATED FOOD**  
 (EPA)  
 DA October 12, 1990  
*RT* Irradiation  
*SO* Environmental Protection Agency Glossary  
 DEF (EPA) Food that has been subject to brief radioactivity, usually by gamma rays, to kill insects, bacteria, and mold, and preserve it without refrigeration or freezing.

**IRRADIATED FUEL PROCESS FACILITY**  
 (1800 IFP FACILITY)  
 DA December 10, 1990  
 BT1 Facility (DOE FRASE Vocabulary)  
 BT2 Facilities and Buildings (DOE FRASE Vocabulary)  
 BT3 Facilities  
*SO* DOE FRASE VOCABULARY

**IRRADIATED FUEL STORAGE FACILITY**  
 (1801 IRS FACILITY)  
 DA December 10, 1990  
 BT1 Facility (DOE FRASE Vocabulary)  
 BT2 Facilities and Buildings (DOE FRASE Vocabulary)  
 BT3 Facilities  
*SO* DOE FRASE VOCABULARY

**IRRADIATION**  
 (EPA)  
 DA October 12, 1990  
 BT1 Exposure  
*RT* Absorbed Dose  
*RT* Critical Organs  
*RT* Genetic Radiation Effects  
*RT* Geometry  
*RT* Irradiated Food  
*RT* Non-Stochastic Radiation Effects  
*RT* Radiation  
*RT* Radiation Safety  
*RT* Somatic Radiation Effects  
*RT* Stochastic Radiation Effects  
*RT* Weighting Factors  
*SO* Environmental Protection Agency Glossary  
 DEF (EPA) Exposure to radiation of wavelengths shorter than those of visible light (gamma, x-ray, or ultraviolet), for medical purposes, the destruction of bacteria in milk or other foodstuffs, or for inducing polymerization of monomers or vulcanization of rubber.

**IRRAS**  
 (Acronyms and Abbreviations)  
 DA October 12, 1990  
 BT1 Computer Codes  
 DEF A probabilistic risk assessment computer code developed at the Idaho National Engineering Laboratory.

**IRREVERSIBLE COMMITMENT OF RESOURCES**  
 DA October 19, 1990  
*RT* Committed Uses  
*RT* Reasonable and Prudent Alternatives  
*SO* Endangered Species  
 DEF (CFR) Any commitment of resources which has the effect of foreclosing the formulation or implementation of any reasonable or prudent alternatives which would not violate section 7(a)(2) of the Endangered Species Act.

**IRRIGATION**  
 (EPA)  
 DA October 12, 1990  
 BT1 Processes  
*RT* Cultivating  
*SO* Environmental Protection Agency Glossary  
 DEF (EPA) Technique for applying water or wastewater to land areas to supply the water and nutrient needs of plants.

**IRRITATING MATERIALS**  
 (CFR)  
 DA October 12, 1990  
 BT1 Materials  
*RT* Fumes  
*RT* Hazards  
*SO* Hazardous Materials  
 DEF (CFR) Irritating materials are liquid or solid substances which upon contact with fire or when exposed to air give off dangerous or intensely irritating fumes, but do not include any material classed as Poison Class A. Tear gas grenades, brombenzylcyanide, gas identification kits, and diphenylchlorarsine are examples of irritating materials.

**IRRITATION**  
 (1329 IRRITATION)  
 DA November 28, 1990  
 BT1 Injuries  
*RT* Infection  
*RT* Inflammation  
*SO* DOE FRASE VOCABULARY

**ISOLATION CONDENSER**  
 DA January 8, 1991  
 SF *IC* (*Isolation Condenser*)  
 BT1 Equipment

**ISOLATION ZONES**  
 (DOE Order 6430.1A)  
 DA October 12, 1990  
 BT1 Zones  
 BT2 Sites/Areas  
*RT* Security Facilities  
*SO* Construction  
 DEF (DOE Order 6430.1A) Areas surrounding a protected facility that have been cleared of any objects that could conceal vehicles or individuals, and that afford unobstructed observation of, or other means of detection of, entry into the area.

**ISOMERIC TRANSITION ISOTOPES**  
 (EDB)  
 DA March 29, 1991  
 BT1 Radionuclides  
 BT2 CERCLA Hazardous Substances  
 BT3 Hazardous Substances  
 BT2 Nuclides  
 NT1 Cesium 134  
 NT1 Cobalt 60  
 NT1 Cobalt 58  
*SO* Radiation

**ISOSTATIC PRESS**  
 (2124 ISOSTATIC PR)  
 DA December 10, 1990  
 BT1 Press  
 BT2 Machines (DOE FRASE Vocabulary)  
 BT3 Equipment  
*SO* DOE FRASE VOCABULARY

**ISOTOPES**  
 (EPA; NIH; EMER)  
 DA October 12, 1990  
 BT1 Nuclides  
 NT1 Isotopic Tracers  
*SO* Emergency Preparedness  
*SO* Environmental Protection Agency Glossary  
*SO* Radiation  
 DEF (EPA) Variations of an element that have the same atomic number but a different weight because of its neutrons. Various isotopes of the same element may have different radioactive behaviors. (NIH) Nuclides having the same number of protons in their nuclei, and hence having the same atomic number, but differing in the number of neutrons, and therefore also differing in the mass number. Almost identical chemical properties exist between isotopes of a particular element.

**ISOTOPIC TRACERS**  
 (NIH)  
 DA October 12, 1990  
 BT1 Isotopes  
 BT2 Nuclides  
*RT* Labeled Compounds

**SO** Radiation

**DEF** (NIH) Isotopes or nonnatural mixtures of isotopes of an element which may be incorporated into a sample to make possible observation of the course of that element, alone or in combination, through a chemical, biological, or physical process. The observations may be made by measurement of radioactivity or of isotopic abundance.

**ISSUE IDENTIFICATION****(TTGM)**

**DA** May 6, 1991

**BT1** Administrative Processes

**BT2** Processes

**RT** Concerns

**RT** Findings

**RT** Tiger Team Assessments

**SO** Management

**DEF** (TTGM) In general, the first step in the development of a Tiger Team Assessment finding is the identification of a specific condition or practice. The following types of information should be obtained including: 1) the specific nature of the problem, issues, condition or practice; 2) a detailed location, if appropriate; 3) the framework or perspective within which the problem or practice exists; 4) the regulatory or performance standards being violated, met or exceeded; 5) supporting information describing the problem or practice, or events leading to the problem; 6) information on actions being taken with respect to the problem or practice; and 7) information regarding how the assessment team member learned of the problem or practice.

**IST**

**DA** October 12, 1990

**SEE** In-Situ Treatment

**SO** Acronyms

**ISV**

**DA** October 12, 1990

**SEE** In-Situ Vitrification

**SO** Acronyms

**IT**

**DA** October 12, 1990

**SEE** Inner Targets

**SO** Acronyms

**ITRI**

**DA** October 12, 1990

**SEE** Inhalation Toxicology Research Institute

**SO** Acronyms

**IX**

**DA** October 12, 1990

**SEE** Ion Exchange

**SO** Acronyms

**JACKHAMMER**

(2953 JACKHAMMER)

**DA** January 3, 1991

**BT1** Tools - Powered

**BT2** Tools (DOE FRASE Vocabulary)

**BT3** Equipment

**RT** Construction Activity

**SO** DOE FRASE VOCABULARY

**JANITOR**

(0524 JANITOR)

**DA** November 28, 1990

**BT1** Admin. Support/Clerical Employee

**BT2** Occupations

**BT2** Personnel

**RT** Janitorial/Housekeeping Activity

**SO** DOE FRASE VOCABULARY

**JANITORIAL/HOUSEKEEPING ACTIVITY**

(1236 JH ACTIVITY)

**DA** November 28, 1990

**BT1** Activity Types (DOE FRASE Vocabulary)

**BT2** Activities

**RT** Janitor

**SO** DOE FRASE VOCABULARY

**JAW**

(1090 JAW)

**DA** November 28, 1990

**BT1** Skull (Fraser)

**BT2** Head

**BT3** Human Body Parts

**RT** Chin

**SO** DOE FRASE VOCABULARY

**JET THRUST UNITS**

(HMTA; CFR)

**DA** May 20, 1991

**RT** Aircraft

**SO** Hazardous Materials

**DEF** (CFR) Class B explosives, are metal cylinders containing a mixture of chemicals capable of burning rapidly and producing considerable pressure. Jet thrust units are designed to be ignited by an electric igniter. They are used to assist airplanes in take-off.

**JOB SAFETY ANALYSIS**

(SSDC)

**DA** October 12, 1990

**SF** JSA

**BT1** Safety Analysis

**BT2** Analyses

**RT** Potential Hazards

**SO** System Safety Development Center Glossary

**DEF** (SSDC) A systematic technique for the safety review of a job used to uncover inherent or potential hazards. A JSA includes five steps: (1) select a job; (2) break the job down into steps; (3)

identify the hazards and determine the necessary hazard controls; (4) apply the controls; and (5) evaluate the controls.

**JOHN BROWN, E&C, INC.**

**DA** January 11, 1991

**BT1** Companies

**BT2** Commercial Organizations

**BT3** Organizations

**BT1** DOE Contractors

**BT2** Potentially Responsible Parties

**RT** Headquarters Operations

**JOINT(S)**

(1137 JOINT)

**DA** November 28, 1990

**BT1** Human Body Parts

**NT1** Ankle(s)

**NT1** Elbow(s)

**NT1** Hip(s)

**NT1** Knee(s)

**NT1** Knuckle(s)

**NT1** Shoulder(s)

**NT1** Wrist(s)

**SO** DOE FRASE VOCABULARY

**JOINT FREQUENCY DISTRIBUTION**

(DOE Order 6430.1A)

**DA** October 12, 1990

**BT1** Frequency Distribution

**BT2** Distribution

**SO** Construction

**DEF** (DOE Order 6430.1A) The result of a frequency analysis of the probability of the occurrence of two or more random events (e.g., hydrologic or meteorological parameters).

**JOINT INFORMATION CENTER**

(EMER)

**DA** February 1, 1991

**BT1** Centers

**SO** Emergency Preparedness

**DEF** (EMER) A center established to coordinate the federal public information activities on scene. It may be collocated with the press activities of an affected facility or state and local authorities. Also known as Joint Public Information Center. May also be referred to as Joint Information Bureau.

**JOINT NUCLEAR ACCIDENT COORDINATION CENTER**

(EMER)

**DA** February 1, 1991

**BT1** Centers

**SO** Emergency Preparedness

**DEF** A joint U.S. Department of Energy (DOE) and Department of Defense (DOD) capability responsible for maintaining current information on the location of specialized DOE and DOD teams or organizations capable of providing nuclear weapons accidents assistance.