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## Abbreviations

| <b>Acronym</b> | <b>Description</b>                                     |
|----------------|--|
| AAB            | Accident Analysis Branch, NRR (defunct)                |
| AC             | alternating current                                    |
| ACRR           | Annular Core Research Reactor                          |
| ACRS           | Advisory Committee on Reactor Safeguards               |
| ADM            | Office of Administration                               |
| ADS            | automatic depressurization system                      |
| A/E            | Architect/Engineer                                     |
| AEB            | Accident Evaluation Branch, DSI, NRR (defunct)         |
| AEC            | Atomic Energy Commission (now NRC)                     |
| AEOD           | Office for Analysis and Evaluation of Operational Data |
| AFW            | auxiliary feedwater                                    |
| AFWS           | auxiliary feedwater system                             |
| AGS            | Atlantic Generating Station                            |
| AI             | artificial intelligence                                |
| AIF            | Atomic Industrial Forum                                |
| AISC           | American Institute of Steel Construction               |
| ALARA          | as low as reasonably achievable                        |
| ANL            | Argonne National Laboratory                            |
| ANO            | Arkansas Nuclear One                                   |
| ANPRM          | advance notice of proposed rulemaking                  |
| ANS            | American Nuclear Society                               |
| ANSI           | American National Standards Institute                  |
| AOP            | abnormal operating procedure                           |
| AOV            | air-operated valve                                     |
| APRM           | average power range monitor                            |
| ASLAB          | Atomic Safety and Licensing Appeal Board               |
| ASLB           | Atomic Safety and Licensing Board                      |
| ASME           | American Society of Mechanical Engineers               |

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| ATWS    | anticipated transient without scram  |
| BNL     | Brookhaven National Laboratory   |
| BOC     | beginning of cycle   |
| BOP     | balance-of-plant   |
| BTP     | Branch Technical Position  |
| B&W     | Babcock & Wilcox Company   |
| BWR     | boiling water reactor  |
| CCF     | common cause failure   |
| CDF     | core damage frequency  |
| CE      | Combustion Engineering Company   |
| CERC    | Coastal Engineering Research Center  |
| CFR     | Code of Federal Regulations  |
| Ci      | Curies   |
| CLB     | current licensing basis  |
| CP      | construction permit  |
| CPB     | Core Performance Branch, DSI, NRR (defunct)                                |
| CPI     | containment performance improvement  |
| CRAC    | calculation of reactor accident consequences                               |
| CRBR    | Clinch River Breeder Reactor   |
| CRBRP   | Clinch River Breeder Reactor Project                                       |
| CRD     | control rod drive  |
| CRGR    | Committee for the Review of Generic Requirements                           |
| CRT     | collet retaining tube  |
| CSB     | Containment Systems Branch, DSI, NRR (defunct)                             |
| CSS     | containment spray system   |
| CVCS    | Charging and Volume Control System   |
| DAS     | data acquisition system  |
| DBA     | design basis accident  |
| DBE     | design basis event   |
| DC      | direct current   |
| DE      | Division of Engineering, NRR (defunct)                                     |
| DEDROGR | Deputy Executive Director for Regional Operations and Generic Requirements |
| DES     | Draft Environmental Statement  |
| DFO     | Division of Facility Operations, RES (defunct)                             |

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| DHFS  | Division of Human Factors Safety, NRR (defunct)                    |
| DHR   | decay heat removal   |
| DL    | Division of Licensing, NRR (defunct)                               |
| DNB   | departure from nucleate boiling                                    |
| DNBR  | departure from nucleate boiling ratio                              |
| DOC   | U.S. Department of Commerce  |
| DOD   | U.S. Department of Defense   |
| DOE   | U.S. Department of Energy  |
| DOI   | U.S. Department of Interior  |
| DOR   | Division of Operating Reactors, NRR (defunct)                      |
| DOT   | U.S. Department of Transportation                                  |
| DSI   | Division of Systems Integration, NRR (defunct)                     |
| DST   | Division of Safety Technology, NRR (defunct)                       |
| E     | energy   |
| ECC   | emergency core cooling   |
| ECCS  | emergency core cooling system                                      |
| ECI   | emergency coolant injection  |
| EDG   | emergency diesel generator   |
| EDO   | Executive Director for Operations                                  |
| EEl   | Edison Electric Institute  |
| EELB  | Electrical Engineering Branch, DE, NRR                             |
| EHEB  | Environmental and Hydrologic Engineering Branch, DE, NRR (defunct) |
| EI    | environmental issue  |
| EIS   | Environmental Impact Statement                                     |
| EICSB | Electrical, Instrument, and Control Systems Branch, NRR (defunct)  |
| EMP   | electromagnetic pulse  |
| EN    | enforcement notification   |
| EOP   | emergency operating procedure                                      |
| EPA   | U.S. Environmental Protection Agency                               |
| EPRI  | Electric Power Research Institute                                  |
| EPZ   | emergency planning zone  |
| EQB   | Equipment Qualification Branch, DE, NRR (defunct)                  |
| ERF   | emergency response facility  |
| ESF   | engineered safety feature  |

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| ESFAS | engineered safety features actuation system      |
| ESRP  | Environmental Standard Review Plan               |
| ESW   | essential service water                          |
| ETS   | Environmental Technical Specification            |
| ETSB  | Effluent Treatment Systems Branch, NRR (defunct) |
| FAA   | U.S. Federal Aviation Administration             |
| FBI   | U.S. Federal Bureau of Investigation             |
| FCC   | U.S. Federal Communication Commission            |
| FDA   | final design analysis                            |
| FEIS  | Final Environmental Impact Statement             |
| FEMA  | U.S. Federal Emergency Management Agency         |
| FIN   | Financial Identification Number                  |
| FIST  | full integral simulation test                    |
| FMEA  | failure modes and effects analysis               |
| FPS   | fire protection system                           |
| FSAR  | Final Safety Analysis Report                     |
| FWPCA | Federal Water Pollution Control Act              |
| FY    | fiscal year                                      |
| GALE  | gaseous and liquid effluent                      |
| GAO   | U.S. Government Accountability Office            |
| GDC   | general design criterion                         |
| GE    | General Electric Company                         |
| GIB   | Generic Issues Branch, DST, NRR (defunct)        |
| GITS  | Generic Issues Tracking System (obsolete)        |
| GPM   | gallons per minute                               |
| GSI   | generic safety issue                             |
| GWd   | gigawatt-days                                    |
| HELB  | high energy line break                           |
| HFIR  | High Flux Isotope Reactor                        |
| HFPP  | Human Factors Program Plan                       |
| HMR   | Hydrometeorological Report                       |
| HOV   | hydraulic-operated valve                         |
| HPCI  | high pressure coolant injection                  |
| HPI   | high pressure injection                          |

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|--------|---|
| HPSI   | high pressure safety injection                    |
| HVAC   | heating, ventilating, and air-conditioning        |
| HWC    | hydrogen water chemistry                          |
| HX     | heat exchanger                                    |
| IAS    | instrument air system                             |
| I&C    | instrument and control                            |
| ICS    | integrated control system                         |
| IE     | inspection and enforcement                        |
| IEEE   | Institute of Electrical and Electronics Engineers |
| IGR    | Impulse Graphite Reactor (Russia)                 |
| IGSCC  | intergranular stress corrosion cracking           |
| INEL   | Idaho Nuclear Engineering Laboratory              |
| INPO   | Institute for Nuclear Power Operations            |
| IP     | Office of International Programs (defunct)        |
| IPE    | individual plant examination                      |
| IPEEE  | individual plant examination of external events   |
| IPRDS  | In-plant Reliability Data System                  |
| IRC    | Incident Response Center                          |
| IREP   | Interim Reliability Evaluation Program            |
| IRM    | intermediate range monitor                        |
| ISA    | Instrument Society of America                     |
| ISAP   | integrated safety assessment program              |
| ISI    | in-service inspection                             |
| ISLOCA | interfacing systems loss-of-coolant accident      |
| IST    | in-service test                                   |
| KI     | potassium iodide                                  |
| LASL   | Los Alamos Scientific Laboratory                  |
| LBLOCA | large-break LOCA                                  |
| LCO    | limiting condition for operation                  |
| LER    | Licensee Event Report                             |
| LI     | licensing issue                                   |
| LLNL   | Lawrence Livermore National Laboratory            |
| LMFBR  | liquid metal fast breeder reactor                 |
| LOCA   | loss-of-coolant accident                          |

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| LOFT    | loss-of-fluid test  |
| LOOP    | loss of offsite power   |
| LPCI    | low pressure coolant injection                                |
| LPCS    | low pressure core spray                                       |
| LPRM    | low power range monitor                                       |
| LPSI    | low pressure safety injection                                 |
| LSSS    | limiting safety system setting                                |
| LTOP    | low temperature overpressure protection                       |
| LWR     | light water reactor   |
| M       | million   |
| MCPR    | minimum critical power ratio                                  |
| MEB     | Mechanical Engineering Branch, DE, NRR (defunct)              |
| METB    | Meteorology and Effluent Treatment Branch, DSI, NRR (defunct) |
| MeV     | million electron volts  |
| ML      | manufacturing license   |
| MOU     | memorandum of understanding                                   |
| MOV     | motor-operated valve  |
| MPA     | multiplant action   |
| MSIV    | main steam isolation valve                                    |
| MSIVLCS | main steam isolation valve leakage control system             |
| MSLB    | main steam line break   |
| MTEB    | Materials Engineering Branch, DE, NRR (defunct)               |
| NASA    | U.S. National Aeronautics and Space Administration            |
| NDE     | non-destructive examination                                   |
| NDL     | nuclear data link   |
| NDT     | non-destructive testing                                       |
| NDTT    | nil ductility transition temperature                          |
| NEA     | Nuclear Energy Agency   |
| NEPA    | National Environmental Policy Act                             |
| NIOSH   | U.S. National Institute of Occupational Safety and Health     |
| NMSS    | Office of Nuclear Materials Safety and Safeguards             |
| NNI     | non-nuclear instrumentation                                   |
| NPRDS   | Nuclear Plant Reliability Data System                         |
| NREP    | National Reliability Evaluation Program                       |

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| NRR    | Office of Nuclear Reactor Regulation                         |
| NSAC   | Nuclear Safety Analysis Center                               |
| NSRR   | Nuclear Safety Research Reactor (Japan)                      |
| NSSS   | nuclear steam supply system                                  |
| NTOL   | near-term operating license                                  |
| NUMARC | Nuclear Utility Management and Resources Council             |
| NUREG  | NRC publication  |
| NVLAP  | National Voluntary Laboratory Accreditation Program          |
| OBE    | operating basis earthquake                                   |
| OC     | NRC Operations Center  |
| OIE    | Office of Inspection and Enforcement (also IE, I&E defunct)  |
| OL     | operating license  |
| OLB    | Operator Licensing Branch, DHFS, NRR (defunct)               |
| OPS    | Offshore Power Systems                                       |
| ORAB   | Operating Reactors Assessment Branch, DL, NRR (defunct)      |
| ORE    | occupational radiological exposure                           |
| ORNL   | Oak Ridge National Laboratory                                |
| ORPBR  | Occupational Radiation Protection Branch, DFO, RES (defunct) |
| OSTP   | Office of Science and Technology Policy, The White House     |
| OTSG   | once-through steam generator                                 |
| PA     | Office of Public Affairs (defunct)                           |
| PARV   | power-actuated relief valve                                  |
| PAS    | Probabilistic Analysis Staff, RES (defunct)                  |
| PBF    | Power Burst Facility   |
| PCI    | pellet/cladding interaction                                  |
| PCS    | power conversion system                                      |
| PCT    | pellet cladding temperature                                  |
| PDA    | preliminary design analysis                                  |
| PEIS   | Programmatic Environmental Impact Statement                  |
| PGP    | procedures generation package                                |
| PIV    | pressure isolation valve                                     |
| PMF    | probable maximum flood                                       |
| PMP    | probable maximum precipitation                               |
| PNL    | Pacific Northwest Laboratories                               |

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| PORV   | power-operated relief valve                                |
| PRA    | probabilistic risk assessment                              |
| PRM    | Petition for Rulemaking                                    |
| PSB    | Power Systems Branch, DSI, NRR (defunct)                   |
| PTS    | pressurized thermal shock                                  |
| PWR    | pressurized water reactor                                  |
| QA     | quality assurance  |
| QC     | quality control  |
| RAB    | Radiological Assessment Branch, DSI, NRR (defunct)         |
| RBCCW  | reactor building closed cooling water                      |
| RCIC   | reactor core isolation cooling                             |
| RCP    | reactor coolant pump                                       |
| RCPB   | reactor coolant pressure boundary                          |
| RCS    | reactor coolant system                                     |
| RDA    | rod drop accident  |
| REA    | U.S. Rural Electrification Administration                  |
| RES    | Office of Nuclear Regulatory Research                      |
| RETS   | Radiological Effluent Technical Specification              |
| RHR    | residual heat removal                                      |
| RI     | regulatory impact issue                                    |
| RIL    | Research Information Letter                                |
| RNWP   | reduced notch worth procedure                              |
| RO     | reactor operator   |
| RPS    | reactor protection system                                  |
| RPV    | reactor pressure vessel                                    |
| RRAB   | Reliability and Risk Assessment Branch, DST, NRR (defunct) |
| RSB    | Reactor Systems Branch, DSI, NRR (defunct)                 |
| RSS    | Reactor Safety Study                                       |
| RSSMAP | Reactor Safety Study Methodology Application Program       |
| RVSS   | reactor vessel support structure                           |
| RWCU   | reactor water cleanup                                      |
| RWST   | reactor water storage tank                                 |
| RY     | reactor-year   |
| SAI    | Science Applications, Inc.                                 |

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| SALP   | systematic assessment of licensee performance        |
| SAR    | Safety Analysis Report                               |
| SARA   | system analysis and risk assessment                  |
| SAS    | service air system                                   |
| SBLOCA | small-break loss-of-coolant accident                 |
| SCBA   | self-contained breathing apparatus                   |
| SCC    | stress corrosion cracking                            |
| SCF    | standard cubic feet                                  |
| SCFH   | standard cubic feet per hour                         |
| SCSS   | Sequence Coding and Search System                    |
| SD     | Office of Standards Development (defunct)            |
| SDV    | scram discharge volume                               |
| SE     | shift engineer                                       |
| SEB    | Structural Engineering Branch, DE, NRR (defunct)     |
| SEP    | Systematic Evaluation Program                        |
| SER    | Safety Evaluation Report                             |
| SETS   | standard environmental technical specification       |
| SFP    | spent fuel pool                                      |
| SGTR   | steam generator tube rupture                         |
| SGTS   | standby gas treatment system                         |
| SI     | safety injection                                     |
| SIL    | service information letter                           |
| SIMS   | Safety Issue Management System                       |
| SIR    | safety issue resolution                              |
| SIS    | safety injection system                              |
| SLCS   | standby liquid control system                        |
| SMC    | seismic methodology chain                            |
| SO     | senior operator                                      |
| SOV    | solenoid-operated valve                              |
| SPDS   | safety parameter display system                      |
| SPEB   | Safety Program Evaluation Branch, DST, NRR (defunct) |
| SQR    | Seismic Qualification Report                         |
| SQUG   | Seismic Qualification Utility Group                  |
| SR     | surveillance requirement                             |

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| SRM   | staff requirements memorandum                   |
| SRO   | senior reactor operator                         |
| SROA  | safety-related operator action                  |
| SRP   | Standard Review Plan                            |
| SRV   | safety relief valve                             |
| SS    | shift supervisor                                |
| SSE   | safe shutdown earthquake                        |
| SSMRP | Seismic Safety Margins Research Program         |
| STA   | shift technical advisor                         |
| STS   | standard technical specification(s)             |
| SV    | safety valve                                    |
| SWGTS | steam and waste gas treatment system            |
| SWS   | service water system                            |
| TAP   | Task Action Plan                                |
| TER   | Technical Evaluation Report                     |
| TI    | temporary instruction                           |
| TID   | Technical Information Document                  |
| TIP   | traveling in-core probe                         |
| TLD   | thermo-luminescent dosimeter                    |
| TMI   | Three Mile Island Nuclear Plant                 |
| TMIPO | Three Mile Island Program Office, NRR (defunct) |
| TNT   | trinitrotoluene                                 |
| TS    | technical specification(s)                      |
| TSIP  | Technical Specification Improvement Program     |
| TVA   | Tennessee Valley Authority                      |
| UHS   | ultimate heat sink                              |
| USI   | unresolved safety issue                         |
| UT    | ultrasonic test                                 |
| W     | Westinghouse Electric Corporation               |

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<sup>1</sup> NUREG-0371, "Task Action Plans for Generic Activities (Category A)," U.S. Nuclear Regulatory Commission, November 1978.