

# APPENDIX C

## ABBREVIATIONS

## **LIST OF ABBREVIATIONS**

<b>ACNW</b>	Advisory Committee on Nuclear Waste
<b>ACR</b>	Advanced CANDU Reactor
<b>ACRS</b>	Advisory Committee for Reactor Safeguards
<b>AE</b>	Architect/Engineer
<b>AEC</b>	Atomic Energy Commission
<b>AECL</b>	Atomic Energy of Canada, Ltd.
<b>AGR</b>	Advanced Gas Reactor
<b>AHTR</b>	Advanced High Temperature Reactor
<b>ALARA</b>	As Low As Reasonably Achievable
<b>ALWR</b>	Advanced Light Water Reactor
<b>ANPR</b>	Advance Notification Of Proposed Rulemaking
<b>ANS</b>	American Nuclear Society
<b>AO</b>	Abnormal Occurrence
<b>AOO</b>	Anticipated Operation Occurrences
<b>AOT</b>	Allowable/allowed outage time
<b>ASME</b>	American Society of Mechanical Engineers
<b>ASP</b>	Accident Sequence Precursor
<b>ATHEANA</b>	A Technique for Human Event Analysis
<b>ATWS</b>	Anticipated Transient Without SCRAM
<b>AVR</b>	Arbeitsgemeinschaft Versuchsreaktor
<b>BDBT</b>	Beyond Design Basis Threat
<b>BEIR VII</b>	Biological Effects of Ionizing Radiation
<b>BWR</b>	Boiling Water Reactor
<b>BWROG</b>	Boiling Water Reactor Owners Group
<b>CANDU</b>	Canadian Deuterium-Natural Uranium Reactor
<b>C/C</b>	Carbon/carbon-fiber composite
<b>CCDF</b>	Complementary Cumulative Distribution Function
<b>CCF</b>	Common-cause failure
<b>CCFP</b>	Conditional Containment Failure Probability
<b>CCGT</b>	Combined-Cycle Gas Turbine
<b>CCWS</b>	Closed Cooling Water System
	Component Cooling Water System

<b>CD</b>	Civil Defense
<b>C/D</b>	Cool-down
<b>CDA</b>	Containment Depressurization Actuation Core disruptive 'accident'
<b>CDAs</b>	Controls, Displays, and Alarms
<b>CDBA</b>	Containment Design-basis Accident
<b>CDC</b>	Center for Disease Control Computer Design Code Control Data Corp.
<b>CDE</b>	Condensate Demineralization Effluent
<b>CDF</b>	Core Damage Frequency Cumulative Damage Function
<b>CDM</b>	Central Data Management
<b>.</b>	Certified Design Material
<b>CDN</b>	Corporate Data Network
<b>CDP</b>	Cask Decontamination Pit
<b>CDPA</b>	Civil Defense Preparedness Agency
<b>CDP</b>	Core damage probability
<b>CDR</b>	Conceptual design requirement ,..
<b>CDRG</b>	Catastrophic Disaster Response Group
<b>CD-ROM</b>	Compact disk/read-only' memory
<b>CDS</b>	Cask Decontamination Station Component Disassembly Station Computer Data Screening Conceptual design study Condensate Demineralization Subsystem Current Disposal Site
<b>CDV</b>	Capacitance discharge vaporization
<b>CE</b>	Combustion Engineering Inc. Commonwealth Edison Co. Conductivity Element Consumer Electronics' Corps of Engineers, U.S. Army

<b>C/E</b>	Calculation/experiment
<b>CEA</b>	Cambridge Electron Accelerator Atomic Energy Commission (France)
<b>CFC</b>	Carbon-fiber Composite
<b>CFR</b>	U.S. Code of Federal Regulations
<b>CFR 10-50</b>	U.S. Code of Federal Regulations for Construction Permit and Operator's License
<b>CFR 10-52</b>	U.S. Code of Federal Regulations for Combined Construction Permit and Operator's License
<b>CHP</b>	Cogeneration of Heat and Power
<b>CLB</b>	Current Licensing Basis
<b>CLIIP</b>	Consolidated Line Item Improvement Process
<b>CNSI</b>	Chem-Nuclear Systems, Inc.
<b>CO</b>	Carbon Monoxide
<b>CO<sub>2</sub></b>	Carbon Dioxide
<b>CP</b>	Construction Permit
<b>CPEF</b>	Conditional Probability of Early Fatality
<b>CPLF</b>	Conditional Probability of Latent Fatality
<b>CRCPD</b>	Conference of Radiation Control Program Directors
<b>CRGR</b>	Committee to Review Generic Requirements
<b>CRMP</b>	configuration risk management program
<b>CSNI</b>	Committee on the Safety of Nuclear Installations
<b>DBA</b>	Design Basic Accident
<b>DBT</b>	Design Basic Threat
<b>DCF</b>	Dose Conversion Factor
<b>DG</b>	diesel generator draft guide
<b>DOE</b>	Department of Energy
<b>DPO</b>	differing professional opinion
<b>DSI</b>	direction-setting issue
<b>EAB</b>	Exclusion Area Boundary
<b>ECCS</b>	Emergency Core Cooling System
<b>ECI</b>	Emergency Cooling Injection
<b>EDO</b>	Executive Director of Operations

<b>EF</b>	Early Fatality
<b>EIS</b>	Environmental Impact Statement
<b>EP</b>	Emergency Preparedness
<b>EPA</b>	Environmental Protection Agency
<b>EPIX</b>	Equipment Performance and Information Exchange
<b>EPRI</b>	Electric Power Research Institute
<b>EXF[1]</b>	1 rem Exceedance Frequency
<b>ESBWR</b>	Economic and Simplified Boiling Water Reactor
<b>ET</b>	Executive Team
<b>EVO</b>	Energieversorgung Oberhausen
<b>FAVOR</b>	a probabilistic fracture mechanics code
<b>FBR</b>	Fast breeder Reactor
<b>FC</b>	Frequency Consequence
<b>FCSS</b>	Division of Fuel Cycle Safety and Safeguards (NMSS/FCSS)
<b>FIMA</b>	Fission per Initial Metal Ion
<b>FSAR</b>	Final Safety Analysis Report
<b>FTE</b>	Full-time Employees
<b>F-V</b>	Fussell-Vesely
<b>FY</b>	Fiscal Year
<b>GAO</b>	Government Accountability Office
<b>GDC</b>	General Design Criterion/criteria
<b>GFR</b>	Gas-Cooled Fast Reactor
<b>GEM</b>	graphical evaluation module
<b>GIF</b>	Generation IV International Forum
<b>GL</b>	generic letter
<b>GPRA</b>	Government Performance and Results Act
<b>GQA</b>	graded quality assurance
<b>GSI</b>	Generic Safety Issue
<b>GTCC</b>	Greater than Class C
<b>GT-MHR</b>	Gas Turbine-High Temperature Reactor
<b>GTHTR</b>	Gas Turbine High Temperature Reactor
<b>HAZAP</b>	Hazard and Operability Analysis
<b>HC&amp;SCC</b>	Hydrogen Codes and Standards Coordinating Committee

<b>HENDEL</b>	Helium Engineering Demonstration Loop
<b>HERA</b>	Human Event Repository and Analysis
<b>HEU</b>	Highly enriched Uranium
<b>HFIR</b>	High Flux Isotope Reactor
<b>HFR</b>	High Flux Reactor
<b>HHV</b>	Hochtemperatur Helium Versuchsanlage (High Temperature Helium Test Loop)
<b>HIP</b>	High Isostatic Temperature
<b>HLR</b>	High Level Requirement
<b>HLW</b>	high-level waste
<b>HRA</b>	human reliability analysis
<b>HSE</b>	Health and Safety Executive
<b>HTE</b>	High-temperature Electrolysis
<b>HTGR</b>	High Temperature Gas Reactor
<b>HTTR</b>	High Temperature Engineering Test Reactor
<b>IAEA</b>	International Atomic Energy Agency
<b>I&amp;C</b>	Instrumentation and Control
<b>ICRP</b>	International Commission on Radiation Protection
<b>IDCCS</b>	Integrated Data Collection and Coding System
<b>IEC</b>	International Electrotechnical Commission
<b>IEEE</b>	Institute of Electrical and electronics Engineers
<b>IER</b>	Individual Early Risk
<b>IHX</b>	Intermediate Heat Exchanger
<b>ILR</b>	Individual Late Risk
<b>IM</b>	Importance Measure or Measures
<b>IMC</b>	Inspection Manual chapter
<b>IMNS</b>	Division of Industrial and Medical Nuclear Safety (NMSS/IMNS)
<b>INEEL</b>	Idaho National Engineering and Environmental laboratory
<b>INPO</b>	Institute of Nuclear Power Operations
<b>INSRI</b>	International Nuclear Energy Research Initiative
<b>IPEEE</b>	individual plant examination for external events
<b>IPE</b>	individual plant examination
<b>ISFSI</b>	Independent Spent Fuel Storage Installation
<b>ISA</b>	Integrated Safety Analysis

<b>ISGTR</b>	Induced Steam Generator Tube Rupture
<b>ISI</b>	In-service Inspection
<b>ISPRA</b>	Institute for Environment and Sustainability
<b>IST</b>	In-service testing
<b>ITRG</b>	Independent Technology Review Group
<b>JAERI</b>	Japan Atomic Energy Research Institute
<b>JMTR</b>	Japan Materials Test Reactor
<b>KVK</b>	Komponentenversuchskreislauf (German Test Facility)
<b>LBE</b>	Licensing Basis Events
<b>LCO</b>	Limiting Conditions for Operation
<b>LER</b>	Licensee Event Report
<b>LERF</b>	Large Early Release Frequency
<b>LEU</b>	Low Enriched uranium
<b>LF</b>	Latent Fatality
<b>LFR</b>	Lead-Cooled Fast Reactor
<b>LLRF</b>	Large Late Release Frequency
<b>LMR</b>	Liquid metal-Cooled Reactor
<b>LOCA</b>	loss-of-coolant accident
<b>LOOP</b>	loss of offsite power
<b>LP/SD</b>	low-power/shutdown
<b>LPZ</b>	Low Population Zone
<b>LRS</b>	low-risk-significant
<b>LT</b>	Leadership team
<b>LTC</b>	Long Term Cooling
<b>LTR</b>	License Termination Rule
<b>LWR</b>	Light Water Reactor
<b>MACCS</b>	MELCOR accident consequence code system
<b>MOR</b>	monthly operating report
<b>MOX</b>	Mixed Oxide
<b>MSLB</b>	Main Steam Line Break
<b>MSPI</b>	Mitigating Systems Performance Index
<b>MSR</b>	Molten Salt Reactor
<b>MW<sub>e</sub></b>	Mega-Watt Electric

<b>MW<sub>th</sub></b>	Mega-Watt Thermal
<b>NDE</b>	Non-Destructive Examination
<b>NEI</b>	Nuclear Energy Institute
<b>NEPA</b>	National Environmental Policy Act
<b>NERI</b>	Nuclear Energy Research Institute
<b>NFI</b>	Nuclear Fuel Industries
<b>NFPA</b>	National Fire Protection Association
<b>NGNP</b>	Next Generation Nuclear Plant
<b>NMSS</b>	NRC Office of Nuclear Material Safety and Safeguards
<b>NOAK</b>	n <sup>th</sup> -of-a-kind
<b>NOED</b>	Notice of Enforcement Discretion
<b>NPP</b>	Nuclear Power Plant
<b>NRC</b>	Nuclear Regulatory Commission
<b>NRS</b>	non-risk-significant
<b>NRR</b>	NRC Office of Nuclear Reactor Regulation
<b>NTPBMR</b>	Nuclear Technology Pebble Bed Modular Reactor
<b>NSSS</b>	Nuclear Steam Supply System
<b>OAS</b>	Organization of Agreement States
<b>OCFO</b>	NRC Office of the Chief Financial Office
<b>ODS</b>	Oxide Dispersion Strengthened
<b>OEDO</b>	NRC Office of the Executive Director for Operations
<b>OKBM</b>	Experimental Designing Bureau of Machine Building (Russia)
<b>O&amp;M</b>	Operation and Maintenance
<b>OL</b>	Operating License
<b>OGC</b>	Office of General Council
<b>OSTP</b>	NRC Office of State and Tribal Programs
<b>PA</b>	Performance Assessment
<b>PAG</b>	Protective Action Guidelines
<b>PBMR</b>	Pebble Bed Modular Reactor
<b>PBPM</b>	Planning, Budgeting, and Performance Management
<b>PCHEs</b>	Printed Circuit Heat Exchangers
<b>PCT</b>	Peak Cladding Temperature
<b>PCU</b>	Power Conversion Unit



<b>PIE</b>	Postulated Initiating Event
<b>PNP</b>	Prototypanlage Nukleare Prozesswaerme (Prototype plant Nuclear Process Heat)
<b>PRA</b>	Probabilistic Risk Assessment
<b>PRASC</b>	PRA steering committee
<b>PRM</b>	Petition for Rulemaking
<b>PSAR</b>	Preliminary Safety Analysis Report
<b>PTS</b>	Pressurized Thermal Shock
<b>Pu</b>	Plutonium
<b>PV</b>	Pressure Vessel
<b>PWR</b>	Pressurized-Water Reactor
<b>QA</b>	Quality Assurance
<b>QC</b>	Quality Control
<b>QHO</b>	Quantitative Health Objectives
<b>RAD</b>	Radiation Absorption Dose
<b>RADS</b>	Reliability and Availability Data System
<b>RASP</b>	Risk Assessment Standardization Project
<b>RAW</b>	Risk Achievement Worth
<b>RBI</b>	risk-based performance indicator
<b>RCCS</b>	Reactor Cavity Cooling System
<b>RCS</b>	Reactor Coolant System
<b>R&amp;D</b>	Research and Development
<b>REM</b>	Roentgen Equivalent Man
<b>RES</b>	NRC Office of Nuclear Regulatory Research
<b>RG</b>	Regulatory Guide
<b>RI</b>	Risk Informed
<b>RIE</b>	Risk Informed Environment
<b>RILP</b>	Risk Informed Licensing Panel
<b>RIPB</b>	Risk Informed, Performance Based
<b>RIRIP</b>	Risk Informed Regulation Implementation Plan
<b>RIS</b>	Regulatory Issue Summary
<b>ROP</b>	Reactor Oversight Process
<b>RPM</b>	Revolutions per Minute
<b>RPV</b>	Reactor Pressure Vessel

<b>RTG</b>	Risk Task Group (NMSS)
<b>SAMDA</b>	Severe Accident Mitigation Design Alternative
<b>SAR</b>	Safety Analysis Report
<b>SAPHIRE</b>	Systems Analysis Program for Hands-on Integrated Reliability Evaluation
<b>SBO</b>	station blackout
<b>SCRAM</b>	super critical reactor axe man
<b>SCSS</b>	sequence coding and search system
<b>SCWR</b>	Super Critical Water Reactor
<b>SDP</b>	significance determination process
<b>SFPO</b>	Spent Fuel Project Office (NMSS)
<b>SFR</b>	Sodium-Cooled Fast Reactor
<b>SI</b>	Sulfur-iodine
<b>SG</b>	Steam Generator
<b>SGTAP</b>	Steam Generator Task Action Plan
<b>SGTR</b>	Steam Generator Tube Rupture
<b>SMR</b>	Steam Methane Reforming
<b>SNM</b>	Special Nuclear Material
<b>SPAR</b>	Standardized Plant Analysis Risk
<b>SR</b>	Stress Relief
<b>SRM</b>	Staff Requirements Memorandum
<b>SRP</b>	Standard Review Plan
<b>SSC</b>	Systems, Structures and Components
<b>STP</b>	South Texas Project
<b>STS</b>	Standard Technical Specifications
<b>TBD</b>	to be determined
<b>TI</b>	temporary instruction
<b>TID</b>	Technical Information Document
<b>TMI</b>	Three Mile Island
<b>TP</b>	Total Population
<b>TRISO</b>	Ceramic-coated-particle fuel
<b>TS</b>	Technical Specification
<b>TSTF</b>	Technical Specification Task Force
<b>TTC</b>	NRC Technical Training Center

<b>TXS</b>	(Siemens) Teleperm XS
<b>UAI</b>	(system) unavailability index
<b>UCO</b>	Uranium Oxycarbide
<b>UL</b>	Underwriters Laboratories
<b>URI</b>	(system) unreliability index
<b>USI</b>	Unresolved Safety Issue
<b>VHTR</b>	Very High Temperature Reactor
<b>V&amp;V</b>	Verification and Validation
<b>WOG</b>	Westinghouse Owners Group