

## Abbreviations

ACNS	Advisory Committee on Nuclear Safety (Canada, historical)
ACR	Advanced CANDU Reactor
ACRS	Advisory Committee on Reactor Safeguards (USA)
AEC	Atomic Energy Commission (USA)
AECA	Atomic Energy Control Act (Canada)
AECB	Atomic Energy Control Board (Canada)
AECL	Atomic Energy of Canada Limited
AESOP	Atomic Energy Simulation of Optimization (computer code)
ALARA	As Low as Reasonably Achievable
ALARP	As Low as Reasonably Practical (UK)
AOO	Anticipated Operational Occurrence
ASDV	Atmospheric Steam Discharge Valve
ASLB	Atomic Safety and Licensing Board (USA)
ASSERT	Advanced Solution of Subchannel Equations in Reactor Thermalhydraulics (computer code)
ASTM	American Society for and Testing Materials
BDBA	Beyond Design Basis Accident
BDBA	Beyond Design Basis Accident
BEAU	Best Estimate with Analysis of Uncertainties
BECS	Boiler Emergency Cooling System
BLC	Boiler Level Control
BLW	Boiling Light Water
BPC	Boiler Pressure Controller
BSL	Basic Safety Limit (UK)
BSO	Basic Safety Objective (UK)
BWR	Boiling Water Reactor
C/S	Containment and Surveillance
CANDU	CANada Deuterium Uranium – the generic name for Canadian heavy water power reactors
CATHENA	Canadian algorithm for thermal hydraulic network analysis (computer code)
CCP	Critical Channel Power
CEAA	Canadian Environmental Assessment Act
CFR	Code of Federal Regulations (USA)
CHF	Critical Heat Flux
CNSC	Canadian Nuclear Safety Commission
CPR	Critical Power Ratio
CRL	Chalk River Laboratories
CRT	Cathode Ray Tube
CSA	Canadian Standards Association
CSDV	Condenser Steam Discharge Valve
CSNI	Canadian Standards for the Nuclear Industry; also Committee on the Safety of Nuclear Installations
DBA	Design Basis Accident
DBE	Design Base Earthquake
DCC	Digital Control Computer

DF-ET	Drift Flux-Equal Temperature
DF-UT	Drift Flux-Unequal Temperature
DIV	Design Information Verification
DNB	Departure from Nucleate Boiling
DSA	Deterministic Safety Analysis
EA	Environment Agency (UK)
ECC	Emergency Core Cooling
ECI	Emergency Coolant Injection (a subsystem of ECC)
EFPH	Effective Full Power Hours
EIS	Environmental Impact Statement
ENSREG	European Nuclear Safety Regulators Group
EPR	European Pressurized Reactor
EU	European Union
EVET	Equal Velocity Equal Temperature
EVUT	Equal Velocity-Unequal Temperature
EWS	Emergency Water Supply
FBR	Feed, Bleed and Relief; also Fast Breeder Reactor
FMEA	Failure Modes and Effects Analysis
FP	Full Power
GAI	Generic Action Item
GAR	Global Assessment Report
GCR	Gas Cooled Reactor
GDA	Generic Design Assessment (UK)
GDC	General Design Criteria (US)
HEM	Homogeneous Equilibrium Model
HPECC	High-Pressure ECC
HSE	Health and Safety Executive (UK)
HTS	Heat-Transport System (see also RCS)
HWP	Heavy Water Plant
HYDNA	Hydraulic Network Analysis (extinct computer code)
I&C	Instrumentation and Control
IAEA	International Atomic Energy Agency
IBIF	Intermittent Buoyancy Induced Flow
ICRP	International Commission on Radiological Protection
IIP	Integrated Implementation Plan
INES	International Nuclear Event Scale
INPO	Institute of Nuclear Power Operations
INSAG	International Nuclear Safety Advisory Group (IAEA)
IRRS	Integrated Regulatory Review Service (IAEA)
LBLOCA	Large Break Loss of Coolant Accident
LGR	Liquid Graphite Reactor
LLOCA	Large Loss-of-Coolant Accident
LMFBR	Liquid Metal Fast Breeder Reactor
LNT	Linear No Threshold (dose response hypothesis)
LOC	Loss of Coolant
LOC/LOECC	Loss of Coolant with Coincident Loss of Emergency Core Cooling
LOCA	Loss of Coolant Accident

LOP	Loss of Pumping
LOR	Loss of Regulation
LPECC	Low-Pressure ECC
LWR	Light-Water Reactor
MBA	Material Balance Area
MCCR	Ministry of Consumer and Commercial Relations
MCR	Main Control Room
MCS	Maintenance Cooling System
MDEP	Multinational Design Evaluation Programme
milli-k	Unit of reactivity for reactor physics
MPECC	Medium-Pressure ECC
MPMO	Major Projects Management Office
MSSV	Main Steam Safety Valve
MUF	Material Unaccounted For
MWe	Megawatt electric
NDPB	Non Departmental Public Body (UK)
NISA	Nuclear and Industrial Safety Agency (Japan)
NPD	Nuclear Power Demonstration
NPP	Nuclear Power Plant
NPSH	Net Positive Suction Head
NRA	Nuclear Regulation Authority (Japan)
NRU	National Research Universal
NRU	National Research Universal (reactor)
NRX	National Research Experimental Research Reactor
NUCIRC	Nuclear Circuits (computer code)
OECD	Organization for Economic Co-operation & Development
OH	Ontario Hydro (now OPG)
ONR	Office for Nuclear Regulation (UK)
OPG	Ontario Power Generation
PNGSA	Pickering Nuclear Generating Station A
PHTS	Primary Heat Transport System
PHW	Pressurized Heavy Water
PHWR	Pressurized Heavy Water Reactor (CANDU)
PRESCON2	Pressure Containment (computer code)
PRV	Pressure-Relief Valve
PSA	Probabilistic Safety Analysis
PSR	Periodic Safety Review
PWR	Pressurized-Water Reactor
QA	Quality Assurance
R&D	Research and Development
R&M	Reliability and Maintainability
RAMA	Reactor Analysis Implicit Algorithm
RB	Reactor Building
RBMK	Реактор Большой Мощности Канальный (High Power Channel-Type Reactor)
RCS	Reactor Coolant System (see also HTS)

rem	röntgen equivalent man (radiation dose)
RIDM	Risk-Informed Decision Making
RIH	Reactor Inlet Header
ROH	Reactor Outlet Header
ROP	Regional Overpower (Protection System)
RSAC	Reactor Safety Advisory Committee (Canada, historical)
RTD	Resistance Temperature Detectors
S/C	Suppression Chamber
SAM	Severe Accident Management
SAPs	Safety Assessment Principles (UK)
SCA	Secondary Control Area
SCDF	Severe Core-damage Frequency
SDM	Safety Design Matrix
SDS	Shutdown System
SER	State Evaluation Report
SFAIRP	So Far As Is Reasonably Practicable (UK)
SG	Steam Generator
SGHWR	Steam Generating Heavy Water Reactor (United Kingdom)
SIR	Safeguards Implementation Report
SIS	Systems Important to Safety
SOE	Safe Operating Envelope
SOPHT	Simulation of Primary Heat Transport (computer code)
SOR	Shut-Off Rod
SRP	Staff Review Procedure (Canada)
SRP	Standard Review Plan (US)
SRV	Safety Relief Valve
SSC	Systems, Structures and Components
STUK	Säteilyturvakeskus (Radiation and Nuclear Safety Authority, Finland)
Sv	Sievert, a unit of radiation dose
TAG	Technical Assessment Guide (UK)
TUEC	Total Unit Energy Cost
TMI	Three Mile Island
TOFFEA	Two Fluid Flow Equation Analysis (computer code)
TOR	Tolerability of Risk (UK)
TSO	Technical Support Organization
USNRC	United States Nuclear Regulatory Commission
UVUEUP	Unequal Velocity, Unequal Energy, Unequal Pressure (thermalhydraulic model)
UVUT	Unequal Velocity Unequal Temperature (thermalhydraulic model)
VB	Vacuum Building
VC	Vacuum Chamber
WENRA	Western European Nuclear Regulators' Association
WRE	Whiteshell Research Establishment
ZEEP	Zero Energy Experimental Pile