## APPENDIX C

## **ACRONYMS**

3-D AABVS ABB ABWR ac/AC ACI ACRS ADAMS ADGFOSS ADS ADS-4 ADVs AEOD AFW AFWS AHUS AI AICC AISC AISI ALARA ALWR AM ANS ANSI AOO AOV APEX APWR ARM ART ASB ASB	two-dimensional three-dimentional auxiliary/annex building ventilation subsystem Asea Brown Boveri Company advanced boiling-water reactor alternating current American Concrete Institute Advisory Committee on Reactor Safeguards Agencywide Documents Access and Management System Public Electronic Reading Room ancillary diesel generator fuel oil supply system automatic depressurization system automatic depressurization system automatic depressurization system automatic depressurization system-Stage 4 atmospheric dump valves NRC Office for Analysis and Evaluation of Operational Data auxiliary feedwater auxiliary feedwater auxiliary feedwater system air handling units automatic isolation adiabatic isochoric complete combustion American Institute of Steel Construction American Institute of Steel Construction American Institute of Steel Construction American Institute as low as is reasonably achievable advanced light water reactor accident management American Nuclear Society American Nuclear Society American National Standards Institute anticipated operational occurrences air operated valves Advanced Plant Experiment advanced pressurized water reactor area radiation monitor adjusted reference temperature Auxiliary Systems Branch auxiliary/Shield building American Society of Civil Engineers
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning
ASIs	adverse systems interactions
ASME Code	American Society of Mechanical Engineers Boiler and Pressure Vessel Code
ASME	American Society of Mechanical Engineers

ASTM ATC ATWS AVT AWS B&W B&WOG BAC BAT BE BOC BTP BWR BWROG CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS	American Society for Testing and Materials automatic turbine control anticipated transient without scram all-volatile treatment American Welding Society Babcock and Wilcox B&W Owner's Group bounding analysis curve boric acid tank best estimate beginning-of-cycle branch technical position boiling water reactor Boiling Water Reactor Owners' Group central alarm station compressed and instrument air system cast austenitic stainless steel cumulative absolute velocity circuit breakers computer-based procedures common cause failure conditional containment failure probability core-concrete interaction component cooling water system component cooling water core damage frequency Combustion Engineering containment event tree chemistry factor computational fluid dynamics early containment failure intermediate containment failure late containment failure containment solation chrolides containment isolation system containment isolation valves condensation induced water hammer closed loop containment leakage condenser air removal system core makeup tank combined license
	condenser air removal system
COLR COMMON Q COTS CP CPG	common qualified platform commercial off-the-shelf construction permit containment performance goal
0-0	containment performance goar

CPS CR CRDM CRDS CREATCS CREFS CS CSF CSI CST CUF CV CV CV CV CV CV CV CV CS CVS CVS CVS	condensate polishing system control room control rod drive mechanism control rod drive system control room emergency air temperature control system control room emergency filtration system core support critical safety function cesium iodide condensate storage tank cumulative usage factor check valve Charpy V-notch chemical and volume control system chemical and volume control system circulating water system design reliability assurance program derived air concentration design acceptance criteria diverse actuation system
DBA	design-basis accident
DBPB DBT	design basis pipe break design basis tornado
dc DCD DCH DDS DECLG DEDVI DEH DEHLG DEI DF DG DHR DID DMIMS DNB DNBR DOFs DOP DOS DOT DSER DTS DVI DWS DWST EAB ECC	direct current design control document direct containment heating data and display processing system double-ended cold leg guillotine double-ended direct vessel injection digital electrohydraulic double-ended hot leg guillotine dose equivalent iodine decontamination factor diesel generator decay heat removal defense-in-depth digital metal impact monitoring system departure from nucleate boiling departure from nucleate boiling degrees of freedom dioctyl-phthalate polydispersed standby diesel and auxiliary boiler fuel oil system Department of Transportation draft safety evaluation report demineralized water treatment system direct vessel injection demineralized water storage tank exclusion area boundary equilibrium cycle core

ECCS EDI EDO EDS EF EFDS EFPY EFW EFWS EHT ELS EM EMC EOF EOF EOF EOF EOF EOF EOF EOF EOF EOF	emergency core cooling system electrodeionization NRC Executive Director for Operations electrical distribution system error factor equipment and floor drainage system effective full-power year emergency feedwater emergency feedwater system effluent holdup tanks plant lighting system evaluation model electromagnetic compatibility electromagnetic interference end-of-cycle emergency operations facility emergency operating procedures emergency operating procedures emergency operating procedures emergency operating Project Electric Power Research Institute equipment qualification equipment qualification equipment qualification data package Emergency Response Data System emergency response guidelines Energy Research, Inc. external reactor vessel cooling engineered safety features actuation engineered safety features actuation system early site permit essential service water eddy current testing emergency trip system function-based task analysis first cycle core fuel-coolant interactions fan coil unit final design approval finite element Federal Emergency Management Agency fuel-handling accident
FE	finite element
FEMA	Federal Emergency Management Agency

FMEA	failure modes and effects analysis
FN	ferrite number
FPDS	flat panel display system
FPS	fire protection system
FRS	floor response spectra
FSAR	final safety analysis report
FSER	final safety evaluation report
FV&V	final verification and validation
FVW	Fussell-Vesely worth
FW	feedwater
GALE	gaseous and liquid effluent
GDC	general design criteria/criterion
GE	General Electric
GI	generic safety issue
GL	generic letter
GOI	generic open items
GRCAs	gray rod cluster assemblies
GSI	generic safety issue
H2TS	hierarchical, two-tiered scaling
HAZ	heat-affected zone
HCF	high cycle fatigue
HCLPF	high confidence that the particular SSC will have a low probability of failure
	hot/cold shutdown
HEDs HEL	HFE/HSI design resolves of all the identified HFE issues
HELB	high-energy line high-energy line break
HEM	homogenous equilibrium model
HEP	human error probability
HEPA	high-efficiency particulate air (filter)
HFE	human factors engineering
HFE PRM	Human Factors Engineering Program Review Model
HFP	hot full-power
HFS	Human Factors Society
HIC	high-integrity containers
HICB	Instrumentation and Controls Branch
HLHS	heavy load handling system
HPCI	high-pressure coolant injection
HPI	high-pressure injection
HPME	high-pressure core melt ejection
HPSI	high-pressure safety-injection
HRA	human reliability analysis
HSI	human-system interface
HSL	high speed link
HVAC	heating, ventilation, and air conditioning
HX	heat exchanger
HZP	hot zero-power
I/O	input/output
I&C	instrumentation and control
IAEA	International Atomic Energy Agency
IAS	instrument air system

IASCC IC ICCDP ICSB IDS IEB IEC IEEE IFM IHP IIS ILRT	irradiation-assisted stress-corrosion cracking intact containment inadequate core cooling incremental conditional core damage probability Instrumentation and Control Systems Branch Class 1E dc system Inspection and Enforcement bulletin International Electrotechnical Commission Institute of Electrical and Electronics Engineers intermediate flow mixing integrated head package in-core instrumentation system integrated leak rate testing
IMSIVC IN	inadvertent main steam isolation valve closure Information Notice
INEEL	Idaho National Engineering and Environmental Laboratory
INEL	Idaho National Engineering Laboratory
INPO	Institute of Nuclear Power Operations
INSAG	International Nuclear Safety Advisory Group
IPSAC	investment protection short-term availability controls
IRWST	in-containment refueling water storage tank
ISA	Instrument Society of America
ISI	inservice inspection
ISI	inservice inspection
ISLOCA	intersystem loss-of-coolant accident
ISLOCA	interfacing systems loss-of-coolant
IST	inservice testing
ITAAC	inspection, test, analyses, and acceptance criteria
ITG	Issue Task Group
ITP	initial test program
LBB	leak-before-break
LBHSs	large-bore hydraulic snubbers
LBLOCA	large-break loss-of-accident accident
LCF	low cycle fatigue
LCO	limiting condition for operation
LCSs	local control stations
LDS	leakage detection system
LEFM	linear elastic fracture mechanics
LER	licensee event report
LERF	large early release fraction
LLHS	light load handling system
LLOCA LMFW	large LOCA loss of main feedwater
LOCA	loss of main reedwater
LOCV	loss of condenser vacuum
LOFT	loss-of-flow tests
LOFTRAN	transient and SGTR computer analysis code
LONF	loss of normal feedwater
LOOP	loss of offsite power
LP	low pressure

LPSI LPZ LRA LRF LST LTC LTOP LWR M-G M-MIS	low pressure safety injection low population zone licence renewal application large release frequency large-scale tests long-term cooling low-temperature overpressure protection light water reactor motor-generator man-machine interface system
MAAP	Modular Accident Analysis Program
MCC	motor control center
MCR	main control room
MCRE	main control room envelop
MFCS	main feedwater control system
MFCV	main feedwater control valve
MFIV	main feedwater isolation valve
MFRV MFW	main feedwater regulation valve main feedwater
MFWS	main feedwater system
MIL	military
ML	mid-loop
MLOCA	medium LOCA
MOV	motor operated valve
MRP	Materials Reliability Program
MS	main steam
MS&FW	main steam and feedwater
MSGTR	multiple steam generator tube rupture
MSIV	main steam isolation valve
MSLB	main steamline break
MSS MSSS	main steam system
MSSVs	main steam supply system main steam safety valves
MTC	main steam safety valves moderator temperature coefficient
MTS	main turbine system
MUX	multiplexer
NCC	natural convection cooldown
NCIG	Nuclear Construction Issues Group
NDE	nondestructive examination
NDT	nil-ductility temperature
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NI	nuclear island
Ni-Cr-Fe	nickel-chromium-iron
NNS NOAA	nonnuclear safety
NOTRUMP	National Oceanic and Atmospheric Administration small break LOCA computer analysis code
NPP	nuclear power plant
NPS	nominal pipe size
NPSH	net positive suction head

NRC NRCA NRHR NS	U.S. Nuclear Regulatory Commission nonradiologically controlled area normal residual heat removal system non-seismic
NSAL NSR	Nuclear Service Advisory Letter non-safety-related
NSSS	nuclear steam supply system
NUREG	NRC technical report designation ( <u>Nu</u> clear <u>Reg</u> ulatory Commission)
O-RAP OBE	operational reliability assurance process operating-basis earthquake
OCC	operational support center
OCS	operation and control centers system
ODCM	offsite dose calculation manual
OECD OER	Organization for Economic Cooperation and Development operating experience review
OL	operating license
OM	operation and maintenance
OPDMS	on-line power distribution monitoring system
OPS OSA	onsite power systems operational sequence analysis
OSC	operational support center
OSU	Oregon State University
P/T	pressure and temperature
P-T P&ID	pressure-temperature piping & instrumentation diagram (AP600)
P&ID	piping and instrumentation drawings
PAM	postaccident monitoring
PAR	passive autocatalytic recombiner
PASS PCA	postaccident sampling system
PCA PCCS	primary coolant activity passive containment cooling system
PCCWST	passive containment cooling water storage tank
PCP	process control program
PCS	passive containment cooling system
PCT PGA	peak cladding temperature peak ground acceleration
PGS	plant gas systems
PIRT	phenomena identification and ranking table
PIV PLC	pressure isolation valve
PLUC	programable logic controller peak linear heat rate
PLS	plant control system
PMF	probable maximum flood
PMP PMS	probable maximum precipitation
PORV	protection and monitoring system pilot-operated relief valve
PORV	power-operated relief valve
POV	power-operated valve
PRA PREACS	probabilistic risk assessment
FREAGO	pump room exhaust air cleanup system

PRHR HX PRHR PSAI PSARV PSB PSD PSDF PSI PSS PSV PTLR PTS PVRC PWHT PWR	passive residual heat removal heat exchanger passive residual heat removal system plant specific action items pressurizer safety and relief valve Power Systems Branch power spectral density power spectral density function preservice inspection primary sampling system pressurizer safety valve pressurizer safety valve pressure-temperature limits report pressurized thermal shock Pressure Vessel Research Council post weld heat treatment pressurized water reactor
PWS PWSCC	potable water system auprimary water stress corrosion cracking
PXS	passive core cooling system
PZR	pressurizer
QA	quality assurance
QDPS	qualified data processing system
QG	NRC Quality Group
QMS	quality management system
RAI	request for additional information
RAMI	reliability, availability, maintainability, and inspection
RAP	reliability assurance program
RAT	reserve auxiliary transformer
RAW	risk achievement worth
RC	reactor coolant
RCA	radiologically controlled area
RCCA	reactive rod control cluster assembly
RCCA	rod cluster control assembly
RCDT	reactor coolant drain tank
RCL	reactor coolant loop
RCP	reactor coolant pump
RCPB	reactor coolant pressure boundary
RCs RCS	release categories reactor coolant system
RCS	reactor coolant system
rem	roentgen equivalent man (unit of radiation exposure)
RES	NRC Office of Nuclear Regulatory Research
RETS	radiological effluent technical specifications
RFA	Robust Fuel Assemblies
RFI	radio frequency interference
RG	regulatory guide
RH	relative humidity
RHR	residual heat removal
RMI	reflective metallic insulation
RMS	radiation monitoring system
RNS	residual heat removal system

RO ROAAM ROSA RPS RPV RRW RSB RSR RSS RSW RT RTD RTDP RTNSS RTP RTS RV RVH RVHV RVLIS RWS RWST S/G SACF SAFDL SAM SAMDA SAT SBLOCA SBO SC SCC SCC SCMP SEA SECY SER SFCV SFP SFPCPS SFS SFS SFS SFS SFW SG	reactor operator reverse osmosis Risk Oriented Accident Analysis Methodology Rig of Safety Assessment reactor protection system reactor pressure vessel risk reduction worth Reactor Systems Branch remote shutdown room remote shutdown workstation remote shutdown workstation reactor trip resistance temperature detector revised thermal design procedure regulatory treatment of non-safety systems rated thermal power reactor vessel reactor vessel head reactor vessel head reactor vessel head reactor vessel head reactor vessel head reactor vessel level indication system raw water system refueling water storage tanks steam generator single active component failure specified acceptable fuel design limit seismic anchor motions severe accident mitigation design alternative systematic approach to training small-break loss-of-coolant accident station blackout seismic category stress-corrosion cracking software configuration management plan Science and Engineering Associates, Inc. Office of the Secretary of the Commission safety evaluation report startup feedwater control valve severe fuel damage startup feedwater isolation valve spent fuel pool spent fuel pool cooling and purification system startup feedwater system spent fuel pool cooling system startup feedwater system
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SGBS	steam generator blowdown system
SGD	subgroup design
SGS	steam generator system
SGSV	steam generator safety valve

SGTR SLB SMA SMACNA SMS SOERS SOMP SPDS SPES SPLB SPM SQAP SR SR SR SR SR SR SR SR SR SR SR SR SR	steam generator tube rupture steam line break seismic margin analysis Sheet Metal and Air Conditioning Contractors' National Association special monitoring system Significant Operating Event Reports software operation and maintenance plan safety parameter display system Simulatore per Esperienze di Sicurezza NRC Plant Systems Branch software program manual software quality assurance plan safety-related surveillance requirement staff requirements memorandum senior reactor operator safety-related operator action standard review plan square root of the sum of squares spent resin storage tank safety relief valve Reactor Systems Branch shift supervisor standard safety analysis report (AP600) structures, systems and components System Specification Documents (AP600) safe-shutdown earthquake soil-structure interaction software safety plan secondary sampling system small scale test Shift-Technical Advisor standard technical specification startup feedwater system startup feedwater system startup feedwater system startup feedwater system software verification and validation plan soli waste management system service water system thermal-hydraulic thermal stratification, cycling and striping average temperature turbine building closed cooling system turbine building closed cooling system
TASCS Tavg	thermal stratification, cycling and striping average temperature
TDS TEDE	turbine island vents, drains, and relief system total effective dose equivalent
TGSCC THD the Code	transgranular stress corrosion cracking total harmonic distortion ASME Boiler and Pressure Vessel Code
THERP TID	technique for human error rate prediction total integrated dose

ТМІ	Three Mile Island
TS	technical specifications
TSC	technical services
TSC	technical support center
TSP	trisodium phosphate
UAT	unit auxiliary transformers
UBC	uniform building code
UCSB	University of California, Santa Barbara
UET	unfavorable exposure time
UHS	ultimate heat sink
UPS	uninterruptable power supply
URD	Utility Requirements Document
URS	ultimate rupture strength
USE	upper-shelf energy
USI	unresolved safety issues
UT	ultrasonic testing
V&V	verification and validation
VAPORE	valve and pressure operating related experiments
VAS	radiologically controlled area ventilation system
VBS	nuclear island non-radioactive system
VBS	nonradioactive ventilation system
VCS	containment recirculation cooling system
VDU	video display unit
VES	main control room emergency habitability system
VFS	containment air filtration system
VHP	vessel head penetration
VHS	health physics and hot machine shop HVAC system
VRS	radwaste building HVAC system
VTS	turbine building ventilation system
VWS	central chilled water system
VXS	annex/auxiliary buildings non-radioactive HVAC system
VYS	plant hot water heating system
VZS	diesel generator DG building heating and ventilation system
	Westinghouse Commercial Atomic Power (report) RAC Westinghouse large break LOCA and long term cooling computer analysis code
WDT	water distribution tests
WG	water gauge
	Westinghouse-GOTHIC analysis code
WGS	gaseous waste management system
WLS	liquid radwaste system
WLS	liquid waste management system
WOG	Westinghouse Owners Group
WRC	Welding Research Council
WRS	radioactive waste drain system
WSS	solid waste management system
WSS	solid radwaste system
WWS	waste water system
ZOS	onsite standby power system
ZPA	zero period acceleration