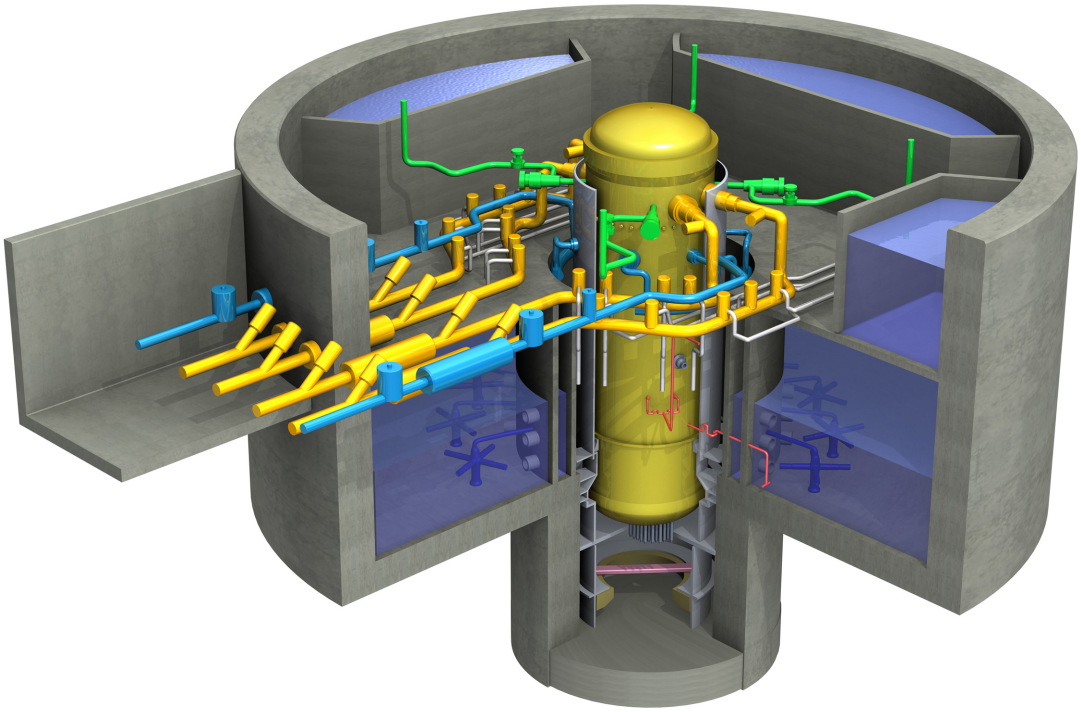
GE Hitachi Nuclear Energy

26A6642AB
Revision 6
August 2009



ESBWR Design Control Document
Tier 2

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- NONE -

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List of Acronyms

10 CFR	Title 10, Code of Federal Regulations
A/D	Analog-to-Digital
ABA	Amplitude Based Algorithm
ABS	Auxiliary Boiler System
ABWR	Advanced Boiling Water Reactor
AC	Alternating Current
ACLCO	Availability Control Limiting Condition for Operation
ACM	Availability Controls Manual
ACSR	Availability Control Surveillance Requirement
ADB	Ancillary Diesel Building
ADG	Ancillary Diesel Generator
ADS	Automatic Depressurization System
AEO	Auxiliary Equipment Operator
AFC	Automatic Frequency Control
AFIP	Automatic Fixed In-Core Probe
AFT	As-Found Tolerance
AFU	Air Filtration Unit
AHS	Auxiliary Heat Sink
AHU	Air Handling Unit
ALARA	As Low As Reasonably Achievable
ALI	Annual Limits on Intake
ALT	As-Left Tolerance
ALWR	Advanced Light Water Reactor
AMS	Alarm Management System
AO	Air Operated
AOF	Allocation of Function(s)
AOO	Anticipated Operational Occurrence
AOP	Abnormal Operating Procedure(s)
APD	Annulus Pressurization Load(s) (Anchor Displacement Load[s])
APF	Automated Program Function(s)
APR	Automatic Power Regulator

APRM	Average Power Range Monitor
ARI	Alternate Rod Insertion
ARM	Area Radiation Monitoring
ARMS	Area Radiation Monitoring System
ARP	Annunciator Response Procedure(s)
ARS	Amplified Response Spectra
ASD	Adjustable Speed Drive
ASDC	Alternate Shutdown Cooling
ASI	Adverse Systems Interaction(s)
AST	Alternate Source Term
ATLM	Automated Thermal Limit Monitor
ATM	Analog Trip Module(s)
ATWS	Anticipated Transient Without Scram
AV	Allowable Value
B&PV	Boiler and Pressure Vessel
BAF	Bottom of Active Fuel
BDL	Bottom Drain Line
BiMAC	Basemat Internal Melt Arrest Coolability
BISI	Bypass and Inoperable Status Indication
BOC	Beginning of Cycle
BOP	Balance of Plant
BOPCWS	Balance of Plant Chilled Water Subsystem
BPU	Bypass Unit
BPVC	Boiler and Pressure Vessel Code
BRR	Baseline Review Record
BSP	Backup Stability Protection
BTP	Branch Technical Position
BWR	Boiling Water Reactor
BWROG	Boiling Water Reactor Owners' Group
BWRVIP	Boiling Water Reactor Vessel Internals Program
C&FS	Condensate and Feedwater System
CAS	Central Alarm Station

CB	Control Building
CBGAVS	Control Building General Area HVAC Subsystem
CBVS	Control Building HVAC System
CCF	Common Cause Failure
CCFP	Conditional Containment Failure Probability
CCI	Core-Concrete Interaction
CCTV	Closed Circuit Television
CDF	Core Damage Frequency
CFR	Code of Federal Regulation(s)
CIM	Communication Interface Module
CIRC	Circulating Water System
CIS	Containment Inerting System
CIV	Containment Isolation Valve
CLAVS	Clean Area HVAC Subsystem
CMF	Common Mode Failure
CMS	Containment Monitoring System
CO	Condensation Oscillation
COL	Combined License
COLA	Combined License Application
COLR	Core Operating Limits Report
CONAVS	Contaminated Area HVAC Subsystem
CPR	Critical Power Ratio
CPS	Condensate Purification System
CPU	Central Processing Unit
CQC	Complete Quadratic Combination
CRC	Cyclic Redundancy Checking
CRD	Control Rod Drive
CRDA	Control Rod Drop Accident
CRDH	Control Rod Drive Housing
CRDM	Control Rod Drive Mechanism
CRGT	Control Rod Guide Tube
CRHA	Control Room Habitability Area

CRHAVS	Control Room Habitability Area HVAC Subsystem
CRHS	Control Room Habitability System
CRT	Cathode Ray Tube
CS&TS	Condensate Storage and Transfer System
CSAU	Code Scaling, Applicability, and Uncertainty
CSDRS	Certified Seismic Design Response Spectra
CST	Condensate Storage Tank
CVCS	Chemical and Volume Control System
CWS	Chilled Water System
D/A	Digital-to-Analog
D/F	Diaphragm Floor
D/SP	Dryer /Separator Pool
D3	Defense-in-Depth and Diversity
DAC	Derived Air Concentration(s)
DAW	Dry Active Waste
DBA	Design Basis Accident
DBE	Design Basis Event
DBT	Design Basis Threat
DC	Direct Current
DCD	Design Control Document
DCFF	Design Characteristic, Feature or Function
DCH	Direct Containment Heating
DCIS	Distributed Control and Information System
DCPSS	Direct Current Power Supply System
DCS	Drywell Cooling System
DEG	Double-Ended Guillotine
DF	Decontamination Factor
DG	Diesel Generator
DGVS	Diesel Generators HVAC Subsystem
DLF	Dynamic Load Factor
DM	Dissimilar Metal
DOF	Degree of Freedom

DPS	Diverse Protection System
DPV	Depressurization Valve
DQR	Dynamic Qualification Report
D-RAP	Design Reliability Assurance Program
DRC	Doppler Reactivity Coefficient
DRS	Design Report Summary
DSS	Detect and Suppress Solution
DSS-CD	Detect and Suppress Solution - Confirmation Density
DTM	Digital Trip Module
DW	Drywell
EAB	Exclusion Area Boundary
EAL	Emergency Action Level
EB	Electrical Building
EBVS	Electrical Building HVAC System
ECCS	Emergency Core Cooling System
ECP	Engineering Computer Program
EER	Electric and Electronic Room(s)
EERVS	Electric and Electronic Room(s) HVAC Subsystem
EFDS	Equipment and Floor Drain System
EFU	Emergency Filter Unit
EHC	Electrohydraulic Control (Pressure Regulator)
EMC	Electromagnetic Compatibility
EMF	Electromagnetic Field
EMI	Electromagnetic Interference
ENS	Emergency Notification System
EOC	End of Cycle
EOF	Emergency Operations Facility
EOL	End of Life
EOP	Emergency Operating Procedure
EPDS	Electric Power Distribution System
EPG	Emergency Procedure Guideline
EQ	Environmental Qualification

EQD	Environmental Qualification Document
EQEDC	Equipment Qualification Environmental Design Criteria
EQT	Torsional Seismic Load(s)
EQZ	Vertical Seismic Load(s)
ERDS	Emergency Response Data System
ERFBS	Electrical Raceway Fire Barrier System(s)
ERI	Emergency Rod Insertion
ERICP	Emergency Rod Insertion Control Panel
ERIP	Emergency Rod Insertion Panel
ESF	Engineered Safety Feature
ESFAS	Engineered Safety Features Actuation System
ESP	Early Site Permit
ESW	Emergency (or Essential) Service Water
ETD	Emergency Trip Device
ETS	Emergency Trip System
ETSB	Effluent Treatment Systems Branch
EVE	Ex-Vessel Steam Explosion
EX	Explosively Actuated
FAC	Flow-Accelerated Corrosion
FAPCS	Fuel and Auxiliary Pools Cooling System
FAT	Factory Acceptance Test
FATT	Fracture Appearance Transition Temperature
FB	Fuel Building
FBFPVS	Fuel Building Fuel Pool Area HVAC Subsystem
FBGAVS	Fuel Building General Area HVAC Subsystem
FBVS	Fuel Building HVAC System
FC	Fail Closed
FCISL	Fuel Cladding Integrity Safety Limit
FCM	File Control Module
FCS	Flammability Control System
FCU	Fan Cooling Unit
FD	Failure to Detect an IC Failure

FDA	Final Design Approval
FEA	Finite Element Analysis
FFT	Fast Fourier Transform
FFWTR	Final Feedwater Temperature Reduction
FHA	Fire Hazards Analysis
FHM	Fuel Handling Machine
FIV	Flow-Induced Vibration
FM	Factory Mutual
FMCRD	Fine Motion Control Rod Drive
FME	Foreign Materials Exclusion
FMEA	Failure Modes and Effects Analysis
FOAK	First Of A Kind
FPE	Fire Pump Enclosure
FPM	Fuel Preparation Machine
FPS	Fire Protection System
FRA	Functional Requirements Analysis
FRS	Floor Response Spectra
FSAR	Final Safety Analysis Report
FSGT	Fuel Support and Guide Tube
FSP	Fuel Storage Pool
FTDC	Fault-Tolerant Digital Controller
FTS	Fuel Transfer System
FUHA	Fuel Handling Accident
FW	Feedwater
FWCS	Feedwater Control System
FWL	Feedwater Line
FWLB	Feedwater Line Break
FWS	Firewater Storage Tank
FWSC	Firewater Service Complex
G/F	Ground Floor
GALL	Generic Aging Lessons Learned
GCS	Generator Cooling System

GDC	General Design Criteria (or Criterion)
GDCS	Gravity-Driven Cooling System
GE	General Electric Company
GEEN	General Electric Energy Nuclear
GEH	GE Hitachi Nuclear Energy
GEN	Generator System
GENE	General Electric Nuclear Energy
GES	Generator Excitation System
GF	Geometry Factor
GLSOS	Generator Lube and Seal Oil System
GM	Geiger-Mueller Counter
GMAW	Gas Metal Arc Welding
GNF	Global Nuclear Fuel
GPP	General Plant Procedure(s)
GPS	Global Positioning System
GRA	Growth Rate Algorithm
GSI	Generic Safety Issue
GTAW	Gas Tungsten Arc Welding
GTG	General Training Guideline(s)
GTS	Generic Technical Specification(s)
GWSR	Ganged Withdrawal Sequence Restriction(s)
HA	Human Action
HAZ	Heat-Affected Zone
HCLPF	High Confidence Low Probability of Failure
HCTL	Heat Capacity Temperature Limit
HCU	Hydraulic Control Unit
HCW	High Conductivity Waste
HDVS	Heater Drain and Vent System
HED	Human Engineering Discrepancy
HELB	High Energy Line Break
HELSA	High Energy Line Separation Analysis
HEP	Human Error Probability

HEPA	High Efficiency Particulate Air
HF V&V	Human Factors Verification and Validation
HFE	Human Factors Engineering
HFEITS	Human Factors Engineering Issue Tracking System
HGCS	Hydrogen Gas Control System
HIC	High Integrity Container
HID	High Intensity Discharge
HMR	Hydrometeorology Report
HP CRD	High Pressure Control Rod Drive
HP/LP	High Pressure/Low Pressure
HPCF	High Pressure Core Flooder
HPCI	High Pressure Coolant Injection
HPM	Human Performance Monitoring
HPME	High Pressure Core Melt Ejection
HPNSS	High Pressure Nitrogen Supply System
HRA	Human Reliability Analysis
HRO	High Regulatory Oversight
HSI	Human-System Interface
HSS	High Safety Significant
HV	High Voltage
HVAC	Heating, Ventilation and Air Conditioning
HVL	Horizontal Vent Chugging
HWC	Hydrogen Water Chemistry System
HWL	High Water Level
HX	Heat Exchanger
I&C	Instrumentation and Control
I/O	Input/Output
IAS	Instrument Air System
IASCC	Irradiation Assisted Stress Corrosion Cracking
IBC	International Building Code
IBL	Intermediate Break LOCA

IC	Isolation Condenser
IC/PCCS	Isolation Condenser/Passive Containment Cooling System
ICD	Interface Control Diagram
ICGT	In-Core Guide Tube(s)
ICM	In-Core Monitor
ICMGT	In-Core Monitor Guide Tube(s)
ICMH	In-Core Monitor Housing
ICP	Independent Control Platform
ICPR	Initial Critical Power Ratio
ICS	Isolation Condenser System
IFC	International Fire Code
IFTS	Inclined Fuel Transfer System
IGA	Intergranular Attack
IGSCC	Intergranular Stress Corrosion Cracking
ILRT	Integrated Leak Rate Test
IMCC	Induction Motor Controller Cabinet
	(Deleted)
IOP	Integrated Operating Procedure
IORV	Inadvertent Opening of a Relief Valve
IOT	Infrequent Operational Transient
IPEEE	Individual Plant Examination of External Event(s)
IR	Intermediate Resonance
IRV	Inside Reactor Vessel
ISI	Inservice Inspection
ISLOCA	Intersystem Loss-of-Coolant-Accident
ISLT	Inservice Leak Test
ISM	Independent Support Motion
IST	Inservice Testing
ITA	Inspections, Tests or Analyses
ITAAC	Inspections, Tests, Analyses and Acceptance Criteria
ITP	Initial Test Program
ITS	Issue Tracking System

JI	Jet Impingement
L1	Low water level ADS/GDCS initiation setpoint
L2	Low water level IC initiation setpoint
L3	Low water level scram setpoint
L8	High water level scram setpoint
LBB	Leak Before Break
LBL	Large Break LOCA
LCD	Load Capacity Datasheet
LCO	Limiting Condition for Operation
LCS	Local Control Station
LCW	Low Conductivity Waste
LD&IS	Leak Detection and Isolation System
LDA	Lay Down Area
LDV	Load Driver and Voter
LDW	Lower Drywell
LFCV	Low Flow Control Valve
LHGR	Linear Heat Generation Rate
	(Deleted)
LLD	Lower Limit of Detection
LLRT	Local Leak Rate Test
LMFBR	Liquid Metal Fast Breeder Reactor
LO	Lube Oil
LOCA	Loss-of-Coolant-Accident
LOFW	Loss of Feedwater
LOFWH	Loss of Feedwater Heating
LOOP	Loss of Offsite Power
LOPP	Loss of Preferred Power
LPCI	Low Pressure Coolant Injection
LPCRD	Locking Piston Control Rod Drive
LPCS	Low Pressure Core Spray
LPFL	Low Pressure Flooder
LPMS	Loose Parts Monitoring System

LPRM	Local Power Range Monitor
LPSP	Low Power Setpoint
LPZ	Low Population Zone
LRF	Large Release Frequency
LRO	Low Regulatory Oversight
LSB	Last Stage Blade
LSPS	Lighting and Service Power System
LSSS	Limiting Safety System Settings
LTR	Licensing Topical Report
LTSP	Limiting Trip Setpoint
LVDT	Linear Variable Differential Transformer
LWMS	Liquid Waste Management System
LWR	Light Water Reactor
MAC	Media Access Control
MBB	Motor Built-In Brake
MCC	Motor Control Center
MCES	Main Condenser Evacuation System
MCPR	Minimum Critical Power Ratio
MCR	Main Control Room
MCRBP	Main Control Room Back Panel
MCRP	Main Control Room Panel
MDRFP	Motor Driven Reactor Feed Pump
MELB	Moderate Energy Line Break
MERV	Minimum Efficiency Reporting Value
MFAP	Main Fire Alarm Panel
MLHGR	Maximum Linear Heat Generation Rate
MMI	Man-Machine Interface
MMIS	Man-Machine Interface System
MOC	Middle of Cycle
MOD	Motor Operated Disconnect
MODCOF	Moderator Temperature Coefficient
MOP	Mechanical Overpower

MPL	Master Parts List
MRBM	Multi-Channel Rod Block Monitor
MS	Main Steam
MSF	Mode Shape Factor
MSIV	Main Steam Isolation Valve
MSL	Main Steamline
MSLB	Main Steamline Break
MSLBA	Main Steamline Break Accident
MSR	Moisture Separator Reheater
MST	Main Steam Tunnel
MSV	Mean Square Voltage
MTBF	Mean Time Between Failure
MTBS	Main Turbine Bypass System
MTS	Maintenance Transfer Switch
MTTF	Mean Time to Failure
MTTR	Mean Time To Repair
MUX	Mutliplexer
MVDS	Medium Voltage Distribution System
MVP	Mechanical Vacuum Pump
MWR	Metal Water Reaction
MWS	Makeup Water System
NBR	Nuclear Boiler Rated
NBS	Nuclear Boiler System
N-CIM	Non-safety Communication Interface Module (Non Safety -to-Non Safety Only)
N-DCIS	Nonsafety-Related Distributed Control and Information System
NDE	Nondestructive Examination
ND-OSUTL	Normal Distribution One-Sided Upper Tolerance Limit
NDT	Nil Ductility Temperature
NDTT	Nil-Ductility Transition Temperature
NFI	New Fuel Inspection
NFS	New Fuel Storage
NG	Noble Gas

NI	Nuclear Island
NICWS	Nuclear Island Chilled Water Subsystem
NLF	Non-LOCA Fault
NMS	Neutron Monitoring System
NPHS	Normal Power Heat Sink
NPRD	Nonelectronic Parts Reliability Data
NPSH	Net Positive Suction Head
NQA	Nuclear Quality Assurance
NR	Narrow Range
NRC	Nuclear Regulatory Commission
NRHX	Non-Regenerative Heat Exchanger
NSOA	Nuclear Safety Operational Analysis
NSSS	Nuclear Steam Supply System
NTSP	Nominal Trip Setpoint
NUMAC	Nuclear Measurement Analysis and Control
NWL	Normal Water Level
O&M	Operation and Maintenance
OBCV	Overboard Control Valve
OBE	Operating Basis Earthquake
ODCM	Offsite Dose Calculation Manual
OER	Operating Experience Review
OGS	Offgas System
OHLH	Overhead Heavy Load Handling
OIS	Oxygen Injection System
OL	Other Location
OLMCPR	Operating Limit Minimum Critical Power Ratio
OLMLHGR	Operating Limit Maximum Linear Heat Generation Rate
OLP	On-Line Procedure(s)
OLU	Output Logic Unit
OM	Operations and Maintenance
OOS	Out-Of-Service
OPDRV	Operation with Potential to Drain the Reactor Vessel

OPRM	Oscillation Power Range Monitor
OSC	Operational Support Center
OSI	Open Systems Interconnect
OSUTL	One-Sided Upper Tolerance Limit
OV	Open Vessel
P&ID	Piping and Instrumentation Diagram
PA	Protected Area
P/T	Pressure and Temperature
PA/PL	Plant Page/Party-Line
PABX	Private Automatic Branch Exchange (Telephone)
PAM	Post-Accident Monitoring
PAR	Passive Autocatalytic Recombiner
PARS	Passive Autocatalytic Recombiner System
PAS	Plant Automation System
PASS	Post-Accident Sampling Station(s)
PB	Pressure Boundary
PBA	Period Based Algorithm
PBDA	Period Based Detection Algorithm
PBX	Private Branch Exchange
PCCS	Passive Containment Cooling System
PCD	Plant Configuration Database
PCF	Plant Computer Function(s)
PCI	Pellet Clad Interaction
PCP	Process Control Program
PCS	Power Conversion System
PCT	Peak Cladding Temperature
PCTMS	Plant Cooling Tower Makeup System
PCV	Primary Containment Vessel
PDA	Pipe Dynamic Analysis
PFD	Process Flow Diagram
PG	Power Generation
PGA	Peak Ground Acceleration

PGCS	Power Generation and Control Subsystem
PHE	Peak Hot Excess
PIP	Plant Investment Protection
PIRT	Phenomena Identification and Ranking Table
PLC	Programmable Logic Controller(s)
PMC	Performance Monitoring and Control
PMCS	Performance Monitoring and Control Subsystem
PMF	Probable Maximum Flood
PMP	Probable Maximum Precipitation
PMS	Pool Monitoring Subsystem(s)
PMWP	Probable Maximum Winter Precipitation
p-p	Peak-to-Peak
PPQS	Product Performance Qualification Specification
PPS	Preferred Power Supply
PRA	Probabilistic Risk Assessment
PRM	Process Radiation Monitor
PRMS	Process Radiation Monitoring System
PRNM	Power Range Neutron Monitoring
PROM	Programmable Read-Only Memory
PS	Pool Swell
PSD	Power Spectra Density
PSI	Preservice Inspection
PSS	Process Sampling System
PSV	Pseudovelocity Response Spectrum
PSWS	Plant Service Water System
PTLR	Pressure and Temperature Limit Report
PTS	Pressurized Thermal Shock
PWR	Pressurized Water Reactor
PWSS	Pretreated Water Supply System
PWSW	Potable Water and Sanitary Waste System
QA	Quality Assurance
QAPD	Quality Assurance Program Description

QC	Quality Control
Q-CIM	Safety-related Communication Interface Module (Safety -to- Safety OR Safety -to- Non Safety)
Q-DCIS	Safety-Related Distributed Control and Information System
R/W	Reactor Well
RACS	Rod Action Control Subsystem
RAM	Reliability, Availability and Maintainability
RAP	Reliability Assurance Program
RAPI	Rod Action and Position Information
RAT	Reserve Auxiliary Transformer
RAW	Risk Achievement Worth
RB	Reactor Building
RBC	Rod Brake Controller
RBCC	Rod Brake Controller Cabinet
RBS	Rod Block Setpoint
RBV	Reactor Building Vibration
RBVS	Reactor Building HVAC System
RC&IS	Rod Control and Information System
RCCV	Reinforced Concrete Containment Vessel
RCCWS	Reactor Component Cooling Water System
RCIC	Reactor Core Isolation Cooling
RCPB	Reactor Coolant Pressure Boundary
RCS	Reactor Coolant System
RDA	Rod Drop Accident
RDC	Resolver-to-Digital Converter
REPAVS	Refueling and Pool Area HVAC Subsystem
RETS	Radiological Effluent Technical Specification(s)
RFI	Radio Frequency Interference
RFP	Reactor Feed Pump
RH	Relative Humidity
RHR	Residual Heat Removal
RHX	Regenerative Heat Exchanger
RIP	Reactor Internal Pump

RIPD	Reactor Internal Pressure Difference(s)
RLP	Reference Loading Pattern
RMS	Root Mean Square
RMU	Remote Multiplexer Unit
ROAAM	Risk-Oriented Accident Analysis Methodology
ROM	Read-Only Memory
RPS	Reactor Protection System
RPSM	Reactor Protection System Monitoring
RPT	Recirculation Pump Trip
RPV	Reactor Pressure Vessel
RPVSB	RPV Support Bracket
RRPS	Reference Rod Pull Sequence
RRS	Required Response Spectra
RSM	Rod Server Module
RSPC	Rod Server Processing Channel
RSR	Results Summary Report(s)
RSS	Remote Shutdown System
RSSM	Reed Switch Sensor Module
RSW	Reactor Shield Wall
RT	Radiographic Examination
RTIF	Reactor Trip and Isolation Function(s)
RTNSS	Regulatory Treatment of Non-Safety Systems
RTP	Rated Thermal Power
RTS	Reactor Trip System
RVC	Reactor Vessel Cavity
RW	Radwaste Building
RWCR	Radwaste Building Control Room
RWCRVS	Radwaste Building Control Room HVAC Subsystem
RWCU	Reactor Water Cleanup
RWE	Rod Withdrawal Error
RWGA	Radwaste Building General Area
RWGAVS	Radwaste Building General Area HVAC Subsystem

RWM	Rod Worth Minimizer
RWP	Radwaste Processing System
RWVS	Radwaste Building HVAC System
S&A	Sampling and Analysis
S&Q	Staffing and Qualification(s)
S/DRSRO	Single/Dual Rod Sequence Restriction Override
SACF	Single Active Component Failure
SAG	Severe Accident Guideline(s)
SAR	Safety Analysis Report
SAS	Service Air System
SAT	Site Acceptance Test
SAW	Submerged Arc Welding
SB	Service Building
SB&PC	Steam Bypass and Pressure Control
SBL	Small Break LOCA
SBO	Station Blackout
SBWR	Simplified Boiling Water Reactor
SCBA	Self-Contained Breathing Apparatus
SCC	Stress Corrosion Cracking
SCEW	System Component Evaluation Work
SCF	Stress Concentration Factor
SCG	Startup Coordinating Group
SCMP	Software Configuration Management Plan
SCP	Setpoint Control Program
SCRRI	Selected Control Rod Run-in
SCU	Signal Conditioning Unit
SCWS	Stator Cooling Water System
SD	Scintillation Detector
SDC	Shutdown Cooling
SDG	Standby Diesel Generator
SDM	Shutdown Margin
SDP	Software Development Plan

SDPM	Software Development Plan Module
SDS	System Design Specification
SER	Safety Evaluation Report
SF/WT	Service Water/Water Treatment Building
SFDP	Safety Function Determination Program
SFGA	System Functional Gap Analysis
SFmin	Minimum Safety Factor
SFP	Spent Fuel Pool
SI	Système International d'Unités (International System of Units)
SIL	Service Information Letter
SIP	Separation Indicator Probe
SIT	Structural Integrity Test
SIU	Signal Interface Unit
SJAE	Steam Jet Air Ejector
SL	Safety Limit
SLC	Standby Liquid Control
SLMCPR	Safety Limit Minimum Critical Power Ratio
SMAW	Shielded Metal Arc Welding
SMP	Software Management Plan
SMPM	Software Management Program Manual[BMO1]
SOP	System Operating Procedure(s)
SORV	Stuck Open Relief Valve
SOT	System Operational Transient
SP	Setpoint
SPBS	Sodium Pentaborate Solution
SPC	Suppression Pool Cooling
SPDS	Safety Parameter Display System
SPTM	Suppression Pool Temperature Monitoring
SQAP	Software Quality Assurance Plan
SQAPM	Software Quality Assurance Program Manual[BMO2]
SQAR	Supplier Quality Assurance Requirement(s)
SR	Surveillance Requirement

SRI	Select Rod Insert
SRM	Staff Requirements Memoranda
SRNM	Startup Range Neutron Monitor
SRO	Senior Reactor Operator
SRP	Standard Review Plan
SRSS	Square Root of the Sum of the Squares
SRV	Safety Relief Valve
SSAR	Standard Safety Analysis Report
SSC	Structure, System, or Component
SSE	Safe Shutdown Earthquake
SSI	Soil-Structure Interaction
SSLC	Safety System Logic and Control
SSLC/ESF	Safety System Logic/and Control/Engineered Safety Features
SSP	Software Safety Plan
SSPV	Scram Solenoid Pilot Valve
ST	Steam Tunnel
STI	Startup Test Instruction(s)
STPT	Simulated Thermal Power Trip
STRAP	Scram Time Recording and Analysis Panel
STS	Standard Technical Specification(s)
SV	Safety Valve
SVVP	Software Verification and Validation Plan
SWC	Surge Withstand Capability
SWMS	Solid Waste Management System
SWS	Station Water System
TA	Task Analysis
TAF	Top of Active Fuel
TAPD	Test and Analysis Program Description
TASS	Turbine Auxiliary Steam System
TB	Turbine Building
TBAS	Turbine Building Air Supply
TBCE	Turbine Building Compartment Exhaust

TBD	To Be Determined
TBDRE	Turbine Building Decontamination Room Exhaust
TBE	Turbine Building Exhaust
TBLOE	Turbine Building Lube Oil Area Exhaust
TBS	Turbine Bypass System
TBV	Turbine Bypass Valve
TBVS	Turbine Building HVAC System
TCCWS	Turbine Component Cooling Water System
TCV	Turbine Control Valve
TE	Thermal Expansion
TEDE	Total Effective Dose Equivalent
TG	Turbine Generator
TGCS	Turbine Generator Control System
TGSS	Turbine Gland Seal System
THA	Time-History Accelerograph
TID	Time-Integrated Dose
TIP	Traversing In-Core Probe
TLOS	Turbine Lube Oil System
TLU	Trip Logic Unit
TMI	Three Mile Island
TMR	Triple-Modular Redundant
TMSS	Turbine Main Steam System
TOC	Total Organic Carbon
TOP	Thermal Overpower
TPM&D	Thermal Performance Monitor and Diagnostic
TRA	Transient Recording and Analysis
TRS	Test Response Spectra
TS	Technical Specification(s)
TSC	Technical Support Center
TSCVS	Technical Support Center HVAC Subsystem
TSI	Turbine Supervisory Instrument
TSM	Technical Specification Monitoring

TSV	Turbine Stop Valve
UAT	Unit Auxiliary Transformer
UDW	Upper Drywell
UHS	Ultimate Heat Sink
UPS	Uninterruptible Power Supply
URD	Utilities Requirements Document
URS	Ultimate Rupture Strength
USE	Upper Shelf Energy
USI	Unresolved Safety Issue
USM	Uniform Support Motion
UT	Ultrasonic
V&V	Verification and Validation
Vac / VAC	Volts Alternating Current
VB	Vacuum Breaker
VBIF	Vacuum Breaker Isolation Function
VBS	Vehicle Barrier System
Vdc / VDC	Volts Direct Current
VDU	Video Display Unit
VFTP	Ventilation Filter Testing Program
VLU	Voter Logic Unit
VRLA	Valve Regulated Lead Acid
VW	Vent Wall
WDP	Wide Display Panel
WR	Wide Range
WS	Water Storage
WW	Wetwell
X/Q	Meteorological Dispersion Coefficient
XLPE-FR	Cross-Linked Polyethylene, Flame Retardant
ZNIS	Zinc Injection System
ZPA	Zero Period Acceleration

List of Abbreviations

AASHTO	American Association of Highway and Transportation Officials
ABMA	Anti-Friction Bearing Manufacturers Association
ACI	American Concrete Institute
ADA	Americans with Disabilities Act
AEC	Atomic Energy Commission
AGMA	American Gear Manufacturer's Association
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
ANI	American Nuclear Insurers
ANS	American Nuclear Society
ANSI	American National Standards Institute
API	American Petroleum Institute
ASA	Acoustical Society of America
ASA	American Standards Association
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASQ	American Society for Quality
ASTM	American Society for Testing and Materials (ASTM International)
AWS	American Welding Society
AWWA	American Water Works Association
BNL	Brookhaven National Laboratory
CEA	Consumer Electronics Association
CMAA	Crane Manufacturers Association of America
CTI	Cooling Technology Institute
DOD	Department of Defense
DOE	Department of Energy
DOT	Department of Transportation
ECA	Electronic Components Assemblies Materials Association
EIA	Electronic Industries Alliance

EPA	Environmental Protection Agency
EPRI	Electric Power Research Institute
FAA	Federal Aviation Administration
FCI	Fluid Controls Institute Inc.
HEI	Heat Exchange Institute
HICB	Instrumentation and Controls Branch
ICC	International Code Council
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
INPO	Institute of Nuclear Power Operations
MIT	Massachusetts Institute of Technology
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.
NFPA	National Fire Protection Association
NIRMA	Nuclear Information and Records Management Association, Inc.
NIST	National Institute of Standards and Technology
NOAA	National Oceanic and Atmospheric Administration
NSSFC	National Severe Storms Forecast Center
NUMARC	Nuclear Utilities Management and Resources Council
NWS	National Weather Service
ORNL	Oak Ridge National Laboratory
OSHA	Occupational Safety and Health Administration
RG	Regulatory Guide
SECY	Secretary of the Commission, Office of the (NRC)
SMACNA	Sheet Metal and Air Conditioning Contractors’ National Association
SSPC	The Society for Protective Coverings
TEMA	Tubular Exchanger Manufacturers' Association
TIA	Telecommunications Industry Association
UL	Underwriter's Laboratories, Inc.

List of Figure Acronyms

2-P	Two Phase
ADD'L	Additional
Atmos.	Atmosphere
BDL	Bottom Drain Line
CD	Condensate Demineralizer
CH	Channel
Chim	Chimney
CS	Containment System
DAW	Dry Active Waste
DC	Downcomer
Demin	Demineralizer
DIV	Division
DN	Down
ED	Electronic Dosimeter
EPS	Electrical Power System
FL	Floor
FP	Fuel Pool
FW	Feedwater
GDL	Gravity Drain Line
HCW	High Conductivity Waste
HO	Hydraulic Operator
HP	Health Physics
HT	Heat Transfer
IB	Inboard
IC	Isolation Condenser
ICDL	IC Drain Line
IFTS	Inclined Fuel Transfer System
IMC	Induction Motor Controller
INOP	Inoperative
IS	Intermediate Stop (Valve)
IV	Intercept Valve

LC	Load Center
LD	Load Driver
LT	Level Transmitter
LV	Low Velocity
LVL	Level
LWMS	Liquid Waste Management System
M	(when enclosed in a circle) Motor Operator
MECH.	Mechanical
MIN	Minimum
MPEN	Mechanical Penetration
mVesselZero	Elevation with respect to bottom of reactor pressure vessel, meters
N2	Nitrogen
N.C.	Normally Closed
N.O.	Normally Open
NON-RAD	Non-Radiological
OB	Outboard
OLD	Output Logic Device
Op	Operative
PCC	Passive Containment Cooling System
PCT C	Peak Cladding Temperature, oC
PDT	Pressure Differential Transmitter
PLCS	Places
PLU	Power Load Unbalance
PREP	Preparation
Press.	Pressure
PS	Power Supply
PT	Pressure Transmitter
R/B	Reactor Building
RAD.	Radiation
RCA	Radiological Controlled Area
RDT	Radiation Detection Transmitter
RE	Reactor Engineer

RO	Reverse Osmosis
RP	Radiation Protection
RW/B	Radwaste Building
RX	Reactor Vessel
RXM	Remote Expansion Chassis
SF	Scram Follow
S/P	Suppression Pool
STM	Steam
STRP	Scram Time Recording Panel
Sup.	Suppression
T/B	Turbine Building
TE	Temperature Element
TPU	Pick Up Time Delay
TYP	Typical
VLF	Voting Logic Function