

1.3 Legend for Figures and Acronyms and Abbreviations

Acronyms and abbreviations are provided in Table 1.3-1—Abbreviations and Acronyms List.

The legend for Tier 1 figures for the U.S. EPR is provided in Figure 1.3-1—Functional Arrangement Symbol Legend.

Table 1.3-1—Abbreviations and Acronyms List
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Term	Definition
1/2 EPGB	Divisions 1 and 2 Emergency Power Generating Building
3/4 EPGB	Divisions 3 and 4 Emergency Power Generating Building
10CFR	Title 10, Code of Federal Regulations
12UPS	12-Hour Uninterruptible Power Supply System
AAC	Alternate AC Source
AC or ac	Alternating Current
ALU	Actuation Logic Unit
AMI	Accident Monitoring Instrumentation
AOO	Anticipated Operational Occurrence
ASME	American Society of Mechanical Engineers
ATWS	Anticipated Transient Without Scram
AVS	Annulus Ventilation System
AWG	American Wire Gauge
BCMS	Boron Concentration Measurement System
BDBE	Beyond Design Basis Event
BTU	British Thermal Unit
CAV	Cumulative Absolute Velocity
CBVS	Containment Building Ventilation System
CCWS	Component Cooling Water System
CGCS	Combustible Gas Control System
CIS	Containment Isolation Signal
CL	Cold Leg
CMSS	Core Melt Stabilization System
COL	Combined License
COMS	Communication System
CRACS	Main Control Room Air Conditioning System
CRDCS	Control Rod Drive Control System
CRDM	Control Rod Drive Mechanism
CRE	Control Room Envelope
CVCS	Chemical and Volume Control System
DAC	Design Acceptance Criteria
DAS	Diverse Actuation System

Table 1.3-1—Abbreviations and Acronyms List
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Term	Definition
DBA	Design Basis Accident
DBE	Design Basis Event
DBT	Design Basis Threat
DC or dc	Direct Current
DNBR	Departure from Nucleate Boiling Ratio
EAB	Exclusion Area Boundary
EAT	Emergency Auxiliary Transformer
EBS	Extra Borating System
EDG	Emergency Diesel Generator
EFWS	Emergency Feedwater System
EIS	Excore Instrumentation System
EMI	Electromagnetic Interference
EOF	Emergency Operations Facility
EPGB	Emergency Power Generating Building
EPGBVS	Emergency Power Generating Building Ventilation System
EPSS	Emergency Power Supply System
EQ	Environmental Qualification
EQDP	Environmental Qualification Data Package
ESD	Electrostatic Discharge
ESF	Engineered Safety Features
ESW	Essential Service Water
ESWB	Essential Service Water Building (Consisting of ESWCT & ESWPB)
ESWCT(S)	Essential Service Water Cooling Tower (Structure)
ESWPB	Essential Service Water Pump Building
ESWPBVS	Essential Service Water Pump Building Ventilation System
ESWS	Essential Service Water System
EUPS	Class 1E Uninterruptible Power Supply System
FB	Fuel Building
FBVS	Fuel Building Ventilation System
FPCS	Fuel Pool Cooling System
FPCPS	Fuel Pool Cooling and Purification System
FPPS	Fuel Pool Purification System
FRA	Functional Requirements Analysis

Table 1.3-1—Abbreviations and Acronyms List
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Term	Definition
FSAR	Final Safety Analysis Report
ft	Feet
FWDS	Fire Water Distribution System
GFES	Gaseous Fire Extinguishing System
gpm	Gallons per Minute
GWPS	Gaseous Waste Processing System
HA	Human Action
HCPL	High Core Power Level
HFE	Human Factors Engineering
HL	Hot Leg
HLPD	High Linear Power Density
HMI	Human Machine Interface
HMS	Hydrogen Monitoring System
HP	High Pressure
hr	Hour
HRA	Human Reliability Analyses
HSI	Human-System Interfaces
HVAC	Heating, Ventilation and Air Conditioning
HX	Heat Exchanger
Hz	Hertz
I&C	Instrumentation and Control
ICIS	Incore Instrumentation System
IEEE	Institute of Electrical and Electronic Engineers
in	Inches
IR	Intermediate Range
IRD	Intermediate Range Detector
IRWST	In-containment Refueling Water Storage Tank
ITA	Inspections, Tests, or Analyses
ITAAC	Inspections, Tests, Analyses, and Acceptance Criteria
ITP	Initial Test Program
LBB	Leak Before Break
LFCP	Local Fire Control Panel
LGT	Lighting and Small Power System

Table 1.3-1—Abbreviations and Acronyms List
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Term	Definition
LHSI	Low Head Safety Injection
LOCA	Loss of Coolant Accident
LOOP	Loss of Offsite Power
LP	Low Pressure
LWMS	Liquid Waste Management System
MCC	Motor Control Center
MCR	Main Control Room
MFW	Main Feedwater
MFWCKV	Main Feedwater Check Valves
MFWFLCV	Main Feedwater Full Load Control Valve
MFWFLIV	Main Feedwater Full Load Isolation Valve
MFWIV	Main Feedwater Isolation Valve
MFWLLCV	Main Feedwater Low Load Control Valve
MFWLLIV	Main Feedwater Low Load Isolation Valve
MFWVLLCV	Main Feedwater Very Low Load Control Valve
MFWS	Main Feedwater System
MHSI	Medium Head Safety Injection
MS or MSS	Main Steam System
MSI	Monitoring and Service Interface
MSIV	Main Steam Isolation Valve
MSRT	Main Steam Relief Train
MSSV	Main Steam Safety Valve
MSU	Main Setup Transformer
MW	Megawatt
MWt	Megawatts Thermal
N/A	Not Applicable
NAB	Nuclear Auxiliary Building
NABVS	Nuclear Auxiliary Building Ventilation System
NAT	Normal Auxiliary Transformer
NDE	Nondestructive Examination
NI	Nuclear Island
NPSH	Net Positive Suction Head
NPSHA	Net Positive Suction Head Available

Table 1.3-1—Abbreviations and Acronyms List
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Term	Definition
NPSHR	Net Positive Suction Head Required
NPSS	Normal Power Supply System
NR	Narrow Range
NUPS	Non-Class 1E Uninterruptible Power Supply System
OER	Operating Experience Review
PA	Postulated Accident
PACS	Priority and Actuator Control System
PAM	Post-Accident Monitoring
PAR	Passive Autocatalytic Recombiner
PAS	Process Automation System
PDS	Primary Depressurization System
PFAS	Plant Fire Alarm System
PICS	Process Information and Control System
PPS	Preferred Power Supply
PRA	Probabilistic Risk Assessment
PRD	Power Range Detector
PRT	Pressurizer Relief Tank
PS	Protection System
psf	Pounds per Square Foot
psia	Pounds per Square Inch Absolute
psig	Pounds per Square Inch Gauge
PSRV	Pressurizer Safety Relief Valve
PZR	Pressurizer
QA	Quality Assurance
RAP	Reliability Assurance Program
RB	Reactor Building
RBA	Reactor Building Annulus
RCCA	Rod Cluster Control Assembly
RCB	Reactor Containment Building
RCP	Reactor Coolant Pump
RCPB	Reactor Coolant Pressure Boundary
RCS	Reactor Coolant System
RCSL	Reactor Control Surveillance and Limitation

Table 1.3-1—Abbreviations and Acronyms List
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Term	Definition
RFI	Radio Frequency Interference
RG	Regulatory Guide
RHRS	Residual Heat Removal System
RMS	Radiation Monitoring System
RPV	Reactor Pressure Vessel
RPVL	Reactor Pressure Vessel Level
RSB	Reactor Shield Building
RSS	Remote Shutdown Station
RT	Reactor Trip
RWB	Radioactive Waste Building
RWSS	Raw Water Supply System
SAHRS	Severe Accident Heat Removal System
SAS	Safety Automation System
SB	Safeguard Building
SBO	Station Blackout
SBODG	Station Blackout Diesel Generator
SBVS	Safeguard Building Controlled-Area Ventilation System
SBVSE	Electrical Division of Safeguard Building Ventilation System
SCWS	Safety Chilled Water System
SFP	Spent Fuel Pool
SG	Steam Generator
SGI	Safeguards Information
SGBS	Steam Generator Blowdown System
SICS	Safety Information and Control System
SIS	Safety Injection System
SMS	Seismic Monitoring System
SOV	Solenoid Operated Valve
SPND	Self Powered Neutron Detector
SQDP	Seismic Qualification Data Package
SRP	Standard Review Plan
SSC	Structures, Systems, and Components
SSE	Safe Shutdown Earthquake
SSS	Startup and Shutdown Feedwater System

Table 1.3-1—Abbreviations and Acronyms List
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Term	Definition
SSSS	Standstill Seal System
SWMS	Solid Waste Management System
TA	Task Analysis
TSC	Technical Support Center
TSP	Trisodium Phosphate
UHS	Ultimate Heat Sink
UL	Underwriter's Laboratories Inc
UPS	Uninterruptible Power Supply
U.S. EPR	United States Evolutionary Power Reactor
V	Volt
V&V	Verification and Validation
Vac	Volts Alternating Current
Vdc	Volts Direct Current
WR	Wide Range