

## Acronyms

A2LA	American Association for Laboratory Accreditation
ABWR	Advanced Boiling Water Reactor
ACES	Automated Coastal Engineering System
ACI	American Concrete Institute
ADB	Ancillary Diesel Building
ADG	Ancillary Diesel Generator
A/E	Architect/Engineer
ADB	Ancillary Diesel Building
AHS	Auxiliary Heat Sink
AHEX	Atlantic Highly Extended Crust
ALARA	as low as reasonably achievable
AMC	Annual Maintenance Cost
ANFO	ammonium nitrate fuel oil
ANS	American Nuclear Society
ANSI	American National Standards Institute
ANSS	Advanced National Seismic System
AOC	Annual Operating Cost
AOOs	Anticipated Operational Occurrences
AOV	Air-Operated Valve
API	American Petroleum Institute
AQCR	Air Quality Control Region
ARD	Automatic Ringdown Circuits
ASCE	American Society of Civil Engineers
ASHRAE	American Society Heating, Refrigerating, and Air-Conditioning
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
ATWS	anticipated transients without scram
BE	Best Estimate

## Acronyms

BEC	Bechtel
BOP	Balance of Plant
bpf	blows per foot
BPT	Brownian Passage Time
BR	breathing rates
BTP	Branch Technical Position
BWR	Boiling Water Reactor
CAS	Central Alarm Station
CAV	Cumulative Absolute Velocity
CB	Control Building
CBR	Center, Body, and Range
CDI	Conceptual Design Information
CEM	U.S. Army Corps of Engineers Coastal Engineering Manual
CEUS	central and eastern United States
CFR	Code of Federal Regulations
C&FS	Condensate and Feedwater System
cfs	cubic feet per second.
CGB	Central Gneiss Belt
CGL	Commerce Geophysical Lineament
CGT	Central Granulite Terrane
CIRC	Circulating Water System
CMB	Central Metasedimentary Belt
CMBBZ	Central Metasedimentary Belt Boundary Zone
CMT	Centroid Moment Tensor
CN	Curve Number
CNO	chief nuclear officer
COCORP	Consortium for Continental Reflection Profiling
COL	Combined License

## Acronyms

COLA	COL Application
COOP	NWS Cooperative Observation Program
CPO	Central Plains Orogeny
CPS	Condensate Purification System
CPT	cone penetrometer tests
CRF	Capital Recovery Factor
CRHA	Control Room Habitability Area
CRHAVS	Control Room Habitability Area HVAC Subsystem
CS&TS	Condensate Storage and Transfer System
CSDRS	Certified Seismic Design Response Spectra
CST	Condensate Storage Tank
D	Disturbance factor
DAC	Design Acceptance Criteria
DAM	Dames & Moore
DAR	Drainage Area Ratio
DBA	design basis accident
DBT	Design-Basis Tornado
DC	Design Certification
DCD	Design Control Document
DCEM	Direct Cost of Equipment and Materials
DE	Deaggregation Earthquakes
DEM	digital elevation model
DFO	Canada Department of Fisheries and Oceans
DLC	Direct Labor Cost
D-RAP	design reliability assurance program
DRIWR	Detroit River International Wildlife Refuge
DTM	Digital Terrain Model
DTPG	Defined Test Plan Groups

## Acronyms

EAB	Exclusion Area Boundary
EB	Electrical Building
ECC-AM	Extended Continental Crust - Atlantic Margin
ECL	Effect Concentration Low
ECMA	East Cost Magnetic Anomaly
ECRB	East Continent Rift Basin
ECRS	East Continent Rift System
ECGA	East Continent Gravity Basin
EFU	Emergency Filter Unit
EGC	Exelon Generation Company, LLC
EHC	Electro-Hydraulic Control
EIS	Environmental Impact Statement
ENC	Electronic Navigational Charts
ENS	Emergency Notification System
EOF	Emergency Operations Facility
EOP	Emergency Operating Procedures
EPA	Environmental Protection Agency
EPC	Engineer, Procure, and Construct
EPRI	Electric Power Research Institute
EPZ	Emergency Planning Zone
EQ	Environmental Qualification
EQD	Equipment Qualification Document
EQMEL	Environmental Program Master Equipment
ERDS	Emergency Response Data Systems
ESF	Engineered Safety Feature
ESP	Early Site Permit
ESRI	Environmental Systems Research Institute
EST	Earth Science Team
ETE	Evacuation Time Estimate

## Acronyms

ETR	energy transfer ratio
ETSZ	Eastern Tennessee Seismic Zone
EWP	Extreme Winter Precipitation
FEM	Finite Element Model
FES	Final Environmental Statements
FFD	Fitness for Duty
FHA	Fire Hazards Analysis
FIRS	foundation input response spectra
FMG	Failure Mode Groups
FOAK	First of a Kind
F.O.B	Free on Board
fps	feet per second
FPS	Fire Protection System
FS	factor of safety
FWSC	Fire Water Service Complex
GDCS	Gravity Driven Cooling System
GE	General Electric
GEH	GE-Hitachi Nuclear Energy Americas, LLC
GFTZ	Grenville Front tectonic zone
GIA	Glacial Isostatic Adjustment
GLERL	NOAA Great Lakes Environmental Research Laboratory
GLIMPCE	Great lakes International Multidisciplinary Program On Crustal Evolution
GLIN	Great Lakes Information Network
GMH	Great Meteor Hotspot
GMRS	ground motion response spectra
GP	Poorly Graded (gravel)
gpd	gallons per day
gpm	gallons per minute

## Acronyms

GPS	Global Positioning System
GSI	Geological Strength Index
GSC	Geological Survey of Canada
GTG	Generic Technical Guidelines
GW	gigawatts
GW	Well Graded (gravel)
GW-GM	Well Graded (gravel) with slit
GWG	generic writer's guide
HAZ	Heat Affecting Zone
HCLPF	High Confidence Low Probability of Failure
HEPA	High Efficiency Particular Air
HF	High-Frequency
HFE	Human Factors Engineering
HMR	Hydro-Meteorological Report
HMS	Hot Machine Shop
HP	high-pressure
HPM	Human Performance Monitoring
HSI	Human System Interface
H:V	Horizontal: Vertical
HWCS	Hydrogen Water Chemistry System
IBEB	Illinois Basin Extended Basement
IC	Isolated Condenser
ICS	Isolation Condenser System
ICA	Item Control Area
I&C	instrumentation and control
ICF	Indirect Cost Factor
IC/PCC	Isolation Condenser/Passive Containment Cooling
ICRP	International Commission on Radiation Protection

## Acronyms

IE	NRC Inspection and Enforcement
IEEE	Institute of Electrical and Electronics Engineers
IGLD	international great lakes datum
ILAC	International Laboratory Accreditation Cooperation
IR	Intermediate-range
IV	independent verification
MRA	Mutual Recognition Arrangement
ISFSI	Independent Spent Fuel Storage Installation
IRB	Independent Review Body
ISG	Interim Staff Guidance
ISI	inservice inspection
IST	inservice testing
ITAAC	Inspections, Tests, Analyses, and Acceptance Criteria
ITP	Initial Test Program
JIT	Just-In-Time
JPM	job performance measures
JTG	Joint Test Group
ksf	kips per square foot
ksi	kips per square inch
LB	Lower Bound
LCCF	Labor Cost Correction Factor
LCD	Local Climatological Data
LCO	limiting conditions for operation
LF	Low-Frequency
LLNL	Lawrence Livermore National Library
LFL	lower flammability limit
LOPP	Loss of Preferred Power
LP	low-pressure

## Acronyms

LPZ	Low Population Zone
LR	Lower-Range
LWA	Limited Work Authorization
LWMS	Liquid Waste Management System
M&TE	measuring and test equipment
MC&A	Material Control & Accounting
MCGA	Midcontinent Gravity High
MCR	main control room
MCWB	Mean Coincident Wet-Bulb
MDCT	mechanical draft cooling tower
MDEQ	Michigan Department of Environmental Quality
MDNR	Michigan Department of Natural Resources
MEI	maximally exposed individual
MEP	Major Enterprise Projects
MI	Material Index
MIDC	Midcontinent-Craton
MMGH	Mid-Michigan Gravity High
MMI	Modified Mercalli Intensity
MOV	Motor Operated Valve
mph	miles per hour
MR	Maintenance Rule
MRA	Mutual Recognition Arrangement
MRCC	Midwestern Regional Climate Center
MRS	Midcontinent rift System
MSIV	Main Steam Isolation Valve
msl	mean sea level
MSLB	Main Steam Line Break
MWe	megawatts electric



## Acronyms

MWS	Makeup Water System
NACE	National Association of Corrosion Engineers
NAVD	North American Vertical Datum
NCDC	National Climatic Data Center
NCEER	National Center for Earthquake Engineering Research
NDCT	natural draft cooling tower
NDE	nondestructive examination
NEI	Nuclear Energy Institute
NEPA	National Environmental Policy Act
NESC	National Electrical Safety Code
NFPA	National Fire Protection Association
NGA	Next Generation Attenuation
NGDC	National Geophysical Data Center
NIRMA	Nuclear Information and Records Management Association, Inc.
NLO	Non-Licensed Operator
NMSZ	New Madrid seismic zone
NN	New Madrid North
NOAA	National Oceanic and Atmospheric Administration
NPHS	normal plant heat sink
NRC	U.S. Nuclear Regulatory Commission
NRCS	Natural Resources Conservation Service
NS	New Madrid South
NSSS	Nuclear Steam Supply System
NTSB	National Transportation Safety Board
NUPIC	Nuclear Procurement Issues Committee
NVLAP	National Voluntary Laboratory Accreditation Program
NWP	Normal Winter Precipitation
NWS	National Weather Service

## Acronyms

OATC	Operator-At-The Controls
OBE	Operating Basis Earthquake
ODCM	Offsite Dose Calculation Manual
OGS	Offgas System
OHLHS	Overhead Heavy Load Handling Systems
OJT	on-the-job training
OSC	Operational Support Center
OSHA	Occupational Safety and Health Act
OSRO	Onsite Safety Review Organization
OTV	Optical Televiewer
PBSRS	Performance-Based Surface Response Spectra
PCCS	Passive Containment Cooling System
pcf	pounds per cubic foot
PCP	Process Control Program
PCTMS	Plant Cooling Tower Makeup System
PEER	Pacific Earthquake Engineering Research
PEZ	Paleozoic Extended Zone
PGA	Peak Ground Acceleration
PGP	procedures generation package
PIP	Plant Investment Protection
PMF	probable maximum flood
PMP	probable maximum precipitation
PMWP	probable maximum winter precipitation
PMWS	Probable Maximum Windstorm
PORC	Plant Operations Review Committee
ppm	parts per million
PSHA	probabilistic seismic hazard analysis
PSI	Pre-Service Inspections

## Acronyms

PSI	Professional service Industries
PSRC	Plant Safety Review Committee
PST	Preservice Test
P-STGs	Plant-Specific Technical Guidelines
P-SWG	Plant-Specific Writer's Guide
PSWS	Plant Service Water System
PWS	Potable Water System
PWSS	Pretreated Water Supply System
QA	quality assurance
QAP	Quality Assurance Program
QAPD	Quality Assurance Program Description
QC	quality control
RAP	Reliability Assurance Program
RASA	USGS Regional Aquifer-System Analysis
RAT	reserve auxiliary transformers
RB	Reactor Building
RB/FB	Reactor Building/Fuel Building
RC	Resonant Column
RCCV	Reinforced Concrete Containment Vessel
RCCWS	Reactor Component Cooling Water System
RCPB	Reactor Coolant Pressure Boundary
RCS	reactor coolant system
RCTS	resonant column torsional shear
RE	Reference Earthquake
REMP	Radiological Effluent Monitoring Program
RERP	Radiological Emergency Response Preparedness
RF	Reelfoot fault
RFT	Reelfoot Fault Thrust

## Acronyms

RG	Regulatory Guide
RHR	Residual Heat Removal
RIS	Regulatory Issue Summary
RLME	Repeated Large Magnitude Earthquake
RND	Roundout
RO	reactor operator
RO	reverse osmosis
RP	radiation protection
RPT	radiation protection technician
RPV	Reactor Pressure Vessel
RQD	Rock Quality Designation
RR	Reelfoot Rift
RR - RCG	Reelfoot Rift-Rough Creek Graben
RSW	Reactor Shield Wall
RT	Radiographic Techniques
RTNSS	Regulatory Treatment of Non-Safety Systems
RW	Radwaste Building
RWB	Radwaste Building
RWCU	Reactor Water Cleanup
RWGAVS	Radwaste General Area HVAC Subsystem
SAM	Startup Administrative Manual
SARA	Superfund Amendments and Reauthorization Act
SASW	spectra analysis of surface waves
SBO	station blackout
SCCSS	Single Corner Constant Stress with Saturation
scfm	standard cubic feet per minute
scfw	standard cubic feet per week
SCG	Startup Controlling Group

## Acronyms

SCOR	Soil Column Outcrop Response
SCR	Stable Continental Region
SCS	Soil Conservation Service
SCVS	Single Corner Variable Stress
SDG	Standby Diesel Generator
SDWIS	Safe Drinking Water Information System
SEI	Structural Engineering Institute
SEMCOG	Southeast Michigan Council of Governments
SHEEF	Seismic Hazard Earthquake Epicenter File
SLU	Saint Louis University
SM	Shift Manager
SNM	Special Nuclear Material
SOG	Seismic Owners Group
SOVs	Solenoid Operated Valves
SPT	standard penetration test
SQD	Specimen Quality Designation
SRO	Senior Reactor Operator
SRP	Standard Review Plan
SS	site-specific
SSA	Sole Source Aquifer
SSAR	Standard Safety Analysis Report
SSCs	structures, systems, and components
SSE	Safe Shutdown Earthquake
SSHAC	Senior Seismic Hazard Analysis Committee
SSI	Soil-Structure Interaction
STA	Shift Technical Advisor
SUNSI	sensitive unclassified non-safeguards information
SV	simultaneous verification

## Acronyms

SWDS	Sanitary Waste Discharge System
SWS	Station Water System
SWST	station water storage tank
TAB	Technical Advisory Board
TAC	Total Annual Cost
TB	Turbine Building
Tc	Time of concentration
TCCWS	Turbine Component Cooling Water System
TDI	Technically Defensible Interpretations
TG	Technical Guide
TI	Technical Integrator
TLD	Thermoluminescent Dosimeters
TR	Technical Release
TS	Torsional Shear
TSC	Technical Support Center
TSCR	Truncated Soil Column Response
TSP	Transportation Security Plan
UAT	unit auxiliary transformer
UB	Upper Bound
UC	Unconfined Compression
UFL	upper flammability limit
UFSAR	Updated Final Safety Analysis Report
UHRS	uniform hazard response spectra
UHS	ultimate heat sink
UR	Upper-range
USCS	Unified Soil Classification System
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

## Acronyms

UT	Ultrasonic Techniques
UTM	Universal Transverse Mercator
UU	Unconfined-Undrained triaxial compression
V/H	Vertical to Horizontal
V&V	verification and validation
$V_p$	compression wave velocity
$V_s$	shear wave velocity
WCC	Woodward-Clyde Consultants
WGC	Weston Geophysical
WUS	Western United States
WVSZ	Wabash Valley seismic zone