

## 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    | Auxillary 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 Orogy                          |
| 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                 |

|       |   |
|-------|---|
| 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                |