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# **Ap1000 Design Control Document 3**

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Ap1000 Design Control Document 3 ML11171A423 - Westinghouse AP1000 Design Control Document Rev. 19 - Tier 2 Chapter 3 - Design of Structures, Components, Equip. & Systems - Section 3.11 Environmental Qualification of Mechanical and Electrical Equipmen (57 page(s), 6/13/2011) Westinghouse AP1000 Design Control Document Rev. 19 3. Design of Structures, Components, Equipment and Systems AP1000 Design Control Document Tier 2 Material 3.2-4 Revision 19 components are related to ANS nuclear safety classification, NRC quality groups, ASME Code, Section III classification, seismic category and other applicable industry standards, as shown in Table 3.2-3. 3. Design of Structures, Components, Equipment and Systems ... 3. Design of Structures, Components, Equipment and Systems AP1000 Design Control Document Tier 2 Material 3.11-4 Revision 19 test data) that the equipment meets or exceeds its specified performance requirements when subjected to normal, abnormal, and design basis accident environmental conditions. 3. Design of Structures, Components, Equipment and Systems ... The AP1000 design response spectra's relative values of spectrum amplification factors for control points are presented in Table 3.7.1-3. The design response spectra are applied at the foundation level in the free field at hard rock sites and at the finished grade in the free field at firm rock and soil sites. The resulting peak horizontal 3. 3. Design of Structures, Components, Equipment and Systems ... 17. Quality Assurance 17.4.3 AP1000 Design Control Document Design Considerations

As part of the design process, risk-significant components are evaluated to determine their dominant failure modes and the effects associated with those failure modes. ML11171A387 - Westinghouse AP1000 Design Control Document ... The AP1000 Design Control Document (DCD) states that the Steam Generator tubing will be made using mill annealed Alloy 690 in the Thermally Treated (TT) condition. Based on my knowledge of UK experience of Thermally Treated Alloy 690 Steam Generator tubing and a general perception Generic Design Assessment - Westinghouse AP1000 GDA Step 3 ... AP1000 European 9. Auxiliary Systems Design Control Document EPS-GW-GL-700 9.3-1 Revision 1 9.3 Process Auxiliaries 9.3.1 Compressed and Instrument Air System The compressed and instrument air system (CAS) consists of three subsystems; instrument air, service air, and high-pressure air. AP1000 European 9. Auxiliary Systems Design Control Document Reactor AP1000 Design Control Document Tier 2 Material 4.6-1 Revision 19 4.6 Functional Design of Reactivity Control Systems 4.6.1 Information for Control Rod Drive System The control rod drive mechanism (CRDM) and operation of the control rod drive system are described in subsection 3.9.4. Figure 3.9-4 provides the details of the control rod drive 4. Reactor AP1000 Design Control Document AP1000 European 7. Instrumentation and Controls Design Control Document EPS-GW-GL-700 7.3-1 Revision 1 7.3 Engineered Safety Features AP1000 provides instrumentation and controls to sense accident situations and initiate engineered safety features (ESF). The occurrence of a limiting fault, such as a loss of coolant 7. Instrumentation and Controls Design

Control Document the AP1000 certified design and are evaluated for high frequency sensitivity as part of the equipment qualification. Appendix 3I provides the criteria for addressing potential high frequency sensitive components for plant locations where there is CSDRS exceedance in the high frequency region.

3.10.1 Seismic and Dynamic Qualification Criteria 3. Design of Structures, Components, AP1000 European ... 3. Design of Structures, Components, AP1000 European Equipment and Systems Design Control Document EPS-GW-GL-700 3.1-3 Revision 1 Criterion 3 – Fire Protection Structures, systems, and components important to safety shall be designed and located to minimize, consistent with other safety requirements, the probability and effect of fires and 3. Design of Structures, Components, AP1000 European ... 3. Design of Structures, Components, AP1000 European Equipment and Systems Design Control Document EPS-GW-GL-700 3.5-3 Revision 1 • The shield building, including the passive containment cooling system • Containment penetration areas, including containment isolation valves and Class IE cables 3. Design of Structures, Components, AP1000 European ... AP1000 European 15. Accident Analyses Design Control Document EPS-GW-GL-700 15.3-1 Revision 1 15.3 Decrease in Reactor Coolant System Flow Rate A number of faults that could result in a decrease in the reactor coolant system flow rate are postulated. These events are discussed in this section. Detailed analyses are presented for the AP1000 European 15. Accident Analyses Design Control Document AP1000 European Design Control Document. 3). At the time when this assessment process commenced, Ref. 2 was

fully available on the internet. During a visit to Westinghouse Offices in Pittsburgh in March 2009 to undertake a detailed assessment of the PSA task on . Generic Design Assessment - Westinghouse AP1000 ... 3. Design of Structures, Components, AP1000 European Equipment and Systems Design Control Document EPS-GW-GL-700 3.2-2 Revision 1 • Capability to prevent or mitigate the consequences of accidents that could result in potential offsite exposures comparable to the guideline exposures of 10 CFR 50.34. 3. Design of Structures, Components, AP1000 European ... The AP1000 is a nuclear power plant designed and sold by Westinghouse Electric Company. The plant is a pressurized water reactor with improved use of passive nuclear safety and many design features intended to lower its capital cost and improve its economics.. The design traces its history to the System 80 design, which was produced in various locations around the world. AP1000 - Wikipedia Per the AP1000™ Design Control Document, Revision 18 (Reference 3), the tube material is Inconel 690. Publicly available data for Inconel 600 (Reference 2)... Ap1000 Design Control Document 3 - pdfsdocuments2.com Document PDR Web ADAMS; AP1000 Design Control Document, Revision 15: X: ML053460400: AP1000 Final Environmental Assessment: X: ML053630176: AP1000 Final Safety Evaluation Report [NUREG-1793] X: ML043570339: NUREG-1793, Supplement 1, AP1000 FSER: X: ML053410203: SECY-05-0227, Final Rule—AP1000 Design Certification: X: X: ML053250288 ... Federal Register :: AP1000 Design Certification The Design Control Document (DCD) in a design certification application for a new reactor

design includes generic technical specifications (GTS). A Combined Operating License (COL) applicant who references a certified reactor design must adopt the DCD GTS approved by rulemaking (e.g., Appendix D to Part 52 of Title 10 of the Code of Federal ...

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