

**Attachment A**  
**Response to NRC RAI Question 07.01-1 (Non-Proprietary)**

## Response

The changes to the equipment qualification design bases, as described in the following response, have not been updated to the proposed changes as described in the supplemental response to RAIs 122 and 126, DEF Letter NPD-NRC-2015-049. The equipment qualification limits described herein are considered bounding to the equipment qualification limits and applicable for testing purposes.

- 1) The qualification performed with the Common-Q equipment is not utilized as the sole basis for the environmental qualification of the AP1000 Main Control Room (MCR) I&C equipment. WCAP-16097-P-A provides a qualification basis for the Common-Q system as a whole, but is not specific to the MCR installation of the Common-Q equipment.

The MCR Safety-Related I&C equipment is listed in Table 3.11-1 of the DCD. Per DCD Appendix 3D, "Methodology for Qualifying AP1000 Safety-Related Electrical and Mechanical Equipment," this equipment requires an equipment qualification data package to demonstrate environmental qualification.

NOTE: Table 3.11-1 of the DCD refers to "QDPS MCR Display Units" which correlate to the Flat Panel Displays, Node Boxes, AF100 Modems, and trackballs in the PDSP.

[

"] (a,c)

Mild environment temperature and relative humidity testing was performed on the PDSP and SDSP assemblies to the original conditions of 95°F and 70% RH at 72 hours following the initiating event. Following the change in required conditions to 115 Deg. F and 35% RH post 72 hours, various test programs that had environmentally qualified similar safety-related equipment were used to show that the equipment mounted in the PDSP is qualified for that environment. [

] (a,c)

- 2) As described in the Item 1 response, following the change in required conditions, various test programs that had environmentally qualified similar safety-related equipment were used to show that the PDSP and SDSP are qualified for that environment. [

] (a,c)

- 3) No further additional testing is anticipated at this time since these safety-related components have been qualified in other test programs where the conditions bound those anticipated for the PDSP and SDSP.
- 4) Westinghouse does not believe a COL application update is required as the MCR I&C Safety-related equipment is included in Table 3.11-1, which requires the creation of an equipment qualification data package per DCD Appendix 3D. These separate equipment qualification data packages are lower-level documents not to be listed in the DCD. APP-OCS-VBR-008 has been created and complies with DCD Appendix 3D, including proposed changes to DCD Figure 3D.5-1.