

ANS Issues Clarification on ANSI/ANS-3.5-1985, “Nuclear Power Plant Simulators for Use in Operator Training.”

(Nuclear News, September 1998)

Inquiry 1:

The 1985 version of this standard does not seem to specify anywhere that all malfunctions the simulator is capable of should be tested. Only those that are identified in Section 3.1.2, Plant Malfunctions, and Appendix B, Simulator Operability Tests, are recommended by this standard. Is this correct?

Response 1:

The 1985 revision of ANS-3.5 did not require testing of all malfunctions within the capability of the simulator. The intent of the standard was to require the development of a comprehensive test program to ensure that operators did not receive negative training as a result of inappropriate simulator response. Please note that Appendix B is provided for informational guidance only and contains only suggested methods for compliance with the standard.

Inquiry 2:

Appendix A, Guide for Documenting Simulator Performance, Section A3.4, Malfunction Tests, refers to generic malfunctions. Does this section refer to the generic type malfunctions listed in the body of ANS-3.5 or all the generic malfunctions the simulator has available? (Specifically, what is the definition of “generic” as used in this appendix?)

Response 2:

The term “generic malfunctions” was eliminated for the 1993 revision of the standard. As used in the 1985 revision, the term “generic” as used in Appendix A referred to multiple components or systems, such as two system trains or multiple redundant components within system trains. Again, please note that the appendices are provided for informational guidance only and contain only suggested methods for compliance with the standard.