(1) scope and objectives for the dedication process
(2) requirements document for computer program or service dedication
(3) plans for a configuration management process for computer program or service dedication, including planned regression test requirements and expected results
(4) computer program V&V methodology
  (a) commercial grade item or service procurement documents
  (b) technical evaluation
(1) computer program requirements, summary, and review
(2) documentation referenced during the technical evaluation
(4) critical characteristic identification and acceptance criteria
  (a) test plan(s), test specifications, test report(s) or results, inspection reports, and analysis reports
  (1) review of test coverage
  (2) evaluation of test results — validation
(7) commercial grade survey reports
(8) source verification reports
(9) historical performance information [e.g., availability and use of user experience(s)]
(8) dedication report containing sufficient data to accept the item or service

803 User Documentation

Limitations of the scope of the dedication of a computer program that are based on the critical characteristics should be communicated to the computer program users to ensure usage is within the dedication limits. The configuration control of the computer program can usually be used to control the version of the computer program. When limits on the computer program usage exist that are not blocked by the computer program's process controls, a user's manual with the specified limits should be available to the users.

900 REFERENCES

ANSI/ANS 10.4, Verification and Validation of Non-Safety-Related Scientific and Engineering Computer Programs for the Nuclear Industry

Publisher: American Nuclear Society (ANS), 555 North Kensington Avenue, LaGrange Park, IL 60526 (www.ans.org)


Publisher: Institute of Electrical and Electronics Engineers, Inc. (IEEE), 445 Hoes Lane, Piscataway, NJ 08854 (www.ieee.org)

EPRI Technical Report 106439, Guideline on Evaluations and Acceptance of Commercial Grade Digital Equipment for Nuclear Safety Applications

EPRI Technical Report 107330, Generic Requirements Specification for Qualifying a Commercially Available PLC for Safety-Related Applications in Nuclear Power Plants

Publisher: Electric Power Research Institute (EPRI), 3420 Hillview Avenue, Palo Alto, CA 94304 (www.epri.com)

ISO 9001:2008, Quality management systems — Requirements

Publisher: International Organization for Standardization (ISO), Central Secretariat, 1, ch. de la Vaissière, Case postale 56, CH-1211 Genève 20, Switzerland/Suisse (www.iso.org)

SEI CMMI, CMMI-DEV Version 1.3, November 2010, CMMI for Development

Publisher: Carnegie Mellon University Software Engineering Institute, 4500 Fifth Avenue, Pittsburgh, PA 15213-3612 (www.sei.cmu.edu)