

## **Harry Medsger**

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## **Biography**

Harry Medsger is the Qualification Section Manager with AREVA in the Engineering and Design Authority Business Group of the Americas and has worked in the nuclear industry for over twenty-five years.

He received a Bachelor of Science in Electrical Engineering from the University of Pittsburgh following service in the United States Marine Corps.

Harry began his engineering career with various divisions of Westinghouse Electric developing robotic and automation systems to support Reactor and Steam Generator services.

Following a decade of holding leadership positions in a variety of diverse non-nuclear industries after leaving Westinghouse, Harry returned to the nuclear industry a little over eleven years ago. He presently serves as owner of AREVA's Reactor & Services Equipment Qualification and Commercial Grade Dedication Programs in the United States.

## **Abstract – Dedication Regulatory Guide: Impact on EQ**

NRC endorsement of the current EPRI guidance for Commercial Grade Dedication requires increased involvement of licensee and supplier Equipment Qualification engineering staff in the dedication of certain new and replacement items. The NRC has issued Draft Regulatory Guide (RG) DG-1292 (Proposed New RG), "Dedication of Commercial-Grade Items for Use in Nuclear Power Plants," for comments.

Along with endorsing EPRI Technical Report, 3002002982, "Plant Engineering: Guideline for the Acceptance of Commercial-Grade Items in Nuclear Safety-Related Applications: Revision 1 to EPRI NP- 5652 and TR-102260," several Equipment Qualification-related issues were specifically identified and described in the draft RG.

- EPRI 3002002982, Appendix I, "Qualification versus Dedication," describes the

difference between the process for qualification and the commercial-grade dedication process.

- Challenges associated with the use of reverse engineering have been identified in determining significant design and performance attributes for replacement components. A separate guidance document is being prepared by EPRI for the use of reverse engineering.
- An exception relating to Equipment Qualification is taken to the EPRI dedication guidance:
  - EPRI NP-7874, "STERI," and EPRI TR-105849, "G-STERI," have been found to be unacceptable for use and, in general, the use of generic testing data bases has been found to be unacceptable "as a means for maintaining or providing seismic qualification of seismically sensitive replacement components" by the NRC.

In addition, the EPRI guidance to be endorsed by the proposed RG includes the following EQ-related content:

- EQ as precursor to dedication
- Appendix-B compliant design and manufacturing versus acceptance by dedication
- Technical Evaluation requirements
- Critical Characteristics development
- Maintaining Seismic and Environmental Qualification
- Seismic and Environmental EQ Databases
- Commercial Grade Survey considerations

The proposed presentation will address the potential impact of the RG on EQ and provide a summary of the EQ-related aspects of the EPRI guidance to be endorsed by this RG.