



EMC QUALIFICATION AND EMI/RFI TROUBLESHOOTING

The implementation of digital I&C equipment and wireless technologies in nuclear power plants presents a variety of technical and regulatory challenges such as interference and electromagnetic compatibility (EMC). To meet these challenges, AMS provides laboratory and field EMC measurements to verify electromagnetic compatibility and to resolve interference issues. We also perform cable testing and EMI/RFI troubleshooting to resolve short term and long term issues with I&C signals and systems.

A plant installing new digital I&C or wireless equipment for voice and data communication must ensure that electromagnetic signals emitted by the new equipment will not interfere with the operation of the existing equipment. Conversely, plants must ensure that new digital and wireless equipment to be installed in a plant can co-exist with plant equipment and withstand the prevailing electromagnetic environment.

AMS has an exclusive array of equipment and technologies to meet the EMC qualification needs of the nuclear industry and to support digital I&C and wireless technology implementation. AMS' state-of-the-art EMC laboratory is an A2LA Accredited Electrical Testing facility (A2LA Cert. No. 3483.01) that is staffed by iNARTE-certified EMC Engineers and Specialists. The AMS A2LA QA management system is audited once every two years by A2LA to maintain accreditation of our EMC laboratory. Further, the AMS QA program is designed to comply with 10CFR50 Appendix B and its related standards. Several audits of both of our QA programs are also performed each year by EMC customers including audits by members of the Nuclear Industry Assessment Committee (NIAC).

We provide 24/7 EMC testing services onsite at nuclear power plants or in our EMC laboratory at AMS. We also provide EMI/RFI troubleshooting and cable testing and can provide technical expertise for implementation of wireless technologies for voice and data communication, predictive maintenance, and online condition monitoring of equipment and processes.



FOR EMERGENCIES OUTSIDE OF OUR NORMAL BUSINESS HOURS, PLEASE CALL 1-800-342-1572.

10CFR50 Appendix B Program

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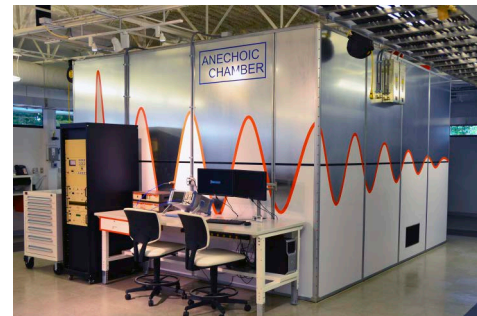
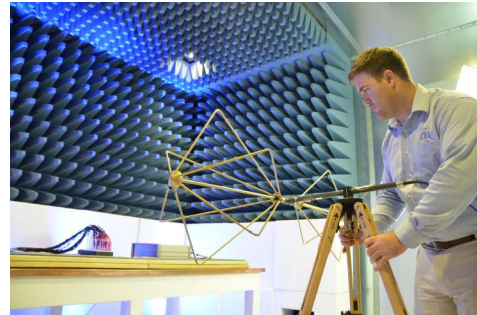
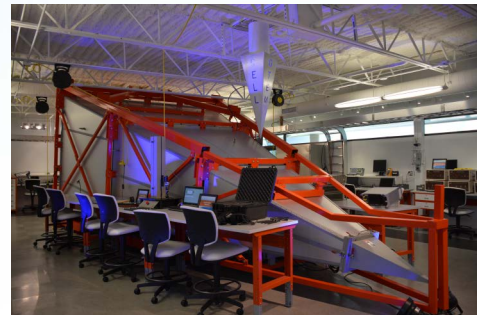
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EMC Products

- EMC Qualification Testing of Digital I&C Equipment
- EMC Design and Installation Review
- EMI/RFI Troubleshooting
- EMC and EMI/RFI Problem Resolution and Redesign
- Wireless Technology Implementation
- EMI/RFI Site Mapping/
Electromagnetic Environment
Characterization
- EMC Training
- Assistance to Comply with
NRC Reg. Guide 1.180 and
EPRI TR-102323



⚛️ 10CFR50 Appendix B Program

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