



## **CHAD J. KIGER, P.E.**

## ***EMC Engineering Manager***



As EMC Engineering Manager at AMS, **CHAD J. KIGER** is responsible for overseeing the development of EMC and cable testing capabilities, as well as identifying and procuring the test equipment necessary to perform all facets of EMC and electromagnetic interference (EMI) testing for private clients, utilities, and nuclear power plants throughout the world. An iNARTE-certified EMC Engineer and MIL-STD EMC Specialist, Mr. Kiger has performed EMC qualification testing in nearly 100 nuclear facilities and equipment manufacturers across the U.S. and abroad, including data review and site assessments of the electromagnetic environment. He is also actively engaged in numerous international activities including projects through the International Atomic Energy Agency (IAEA) and the International Electrotechnical Commission (IEC).

Mr. Kiger has been involved in numerous industry conferences, serving in various capacities from technical session chair to main presenter. He is a Fellow of the International Society of Automation (ISA) and an executive committee member of ISA POWID. In addition, he is a member of the American Nuclear Society (ANS), Institute of Electrical and Electronic Engineers (IEEE), Nuclear Energy Institute (NEI), U.S. National Committee Technical Advisory Group (TAG), and Electric Power Research Institute (EPRI) Nuclear EMC Working Group, which develops guidance for nuclear industry with respect to EMI.

Mr. Kiger has served as the principal investigator for a \$2.5M wireless Phase III project to implement numerous wireless systems inside the containment at Arkansas Nuclear One (ANO) Power Plant, and was the lead EMC engineer at Diablo Canyon Power Plant in California to help allow the use of cell phones throughout various areas of the power block. In addition, he has provided recommendations with regard to EMI/RFI to assist with various plant activities including temporary equipment installations during refueling outages.

Prior to joining AMS in 2006, Mr. Kiger performed his graduate work at the University of Tennessee-Knoxville, Wireless Communications Research Group (WCRG) and Oak Ridge National Laboratory (ORNL). From the work on his thesis entitled "Physical Layer Simulation Study for the Co-existence of Wireless Local Area Network (WLAN) Standards," the NUREG/CR-6939 of the NRC was published through ORNL. He completed a graduate assistantship and a period of employment at ORNL supporting activities in wireless technology research and development (R&D) and applications.