



# AMS PRODUCTS AND SERVICES

AMS is a premier provider in testing the instrumentation and control systems of nuclear power plants



## Cable Testing, Troubleshooting & Aging Management

- In-Situ Testing of Cables, Connectors, & Cable Insulation: IR, LCR, FDR, RTDR, TDR, IV and Fault Location
- Cable Troubleshooting & Condition Monitoring
  - Degraded Connectors
  - Intermittent Connections
  - Moisture Intrusion into Cracked Cable Insulation
  - Noise Coupling from Damaged or Degraded Shielding
  - Open and Short Circuit Faults
  - Turn to Turn Shorts in Motors & Coils
  - Foreign Material or Moisture Contamination in Connectors
- High-speed, Automated Multiplexing for High Volume Cable Testing
- SRM, IRM, & LPRM Testing in BWRs
- FDR Testing for Cable 'Hot Spot' Aging Management
- Indenter for Cable Aging Management
- Laboratory Cable Forensics & Remaining Useful Life Estimations

## EMC Testing Services

- EMC Qualification Testing of Digital I&C Equipment
- In-Plant Field Qualification Testing
- EMI/RFI Troubleshooting
- EMC Design & Installation Review
- Assistance to Comply with NRC Reg. Guide 1.180 & EPRI TR-102323
- EMI/RFI Site Mapping
- EMC Training
- iNARTE Certified Engineers
- A2LA Accredited Laboratory (Certificate #3483.01)
- Wireless Technology Implementation

## Nuclear Instrumentation & Incore Detector Testing

- Flux Mapping Encoder System
- Measurement of the Mechanical & Thermal Hydraulic Motion of Reactor Internals
- NIS Cable Testing & Troubleshooting
- NI Dynamic Performance Testing
- Neutron Noise Analysis for Reactor Core Barrel Vibration

## Online Monitoring, Diagnostics, & Prognostics

- Online Calibration Monitoring of Process Sensors
- Online Measurement of Response Time
- Online Detection of Blockages, Voids, & Leaks in Sensing Lines
- Noise Analysis Techniques for Equipment & Process Diagnostics
- Prognostics & Residual Life Estimation of Equipment

## Rod Control & Rod Position Indication System Testing

- Rod Drop Time Testing
- CRDM Testing in Westinghouse PWRs
- CEDM Testing, Calibration & Diagnostics in CE PWRs
- DRPI Diagnostic Testing
- Slave Cyclor Timing Tests

## RTD & Pressure Transmitter Testing

- In-Situ Response Time Testing
- Pressure Transmitter Hydraulic Ramp Testing
- RTD Cross Calibration
- RTD Laboratory Calibration
- Feedwater RTD Calibration for Precision Calorimetrics

## Wireless Technology Implementation

- EMI/RFI Testing & Site Surveys
- In-Situ Immunity Testing of Installed Plant Equipment
- Exclusion Zone Calculations
- EMC Lab Qualification Testing of Wireless Devices or Plant Equipment
- Wireless Coexistence Testing
- Wireless Condition Monitoring & Analysis Equipment for RCA, In-Containment, and BOP Data Acquisition

## Other Services

- IPASS Software for Statistical Instrument Drift Analysis
- As-Found, As-Left (AFAL) Drift Analysis Services
- Precision Heat Balance Software
- LabView Software Development
- Equipment Buy & Lease/Analysis Program
- Digital I&C Qualification

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10CFR50 Appendix B Program

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