

# REGISTER TODAY FOR A THREE-DAY TRAINING COURSE

## CABLE CONDITION MONITORING, TROUBLESHOOTING AND AGING MANAGEMENT

Hyatt Regency • Clearwater, Florida • January 30 – February 1, 2018

This three-day technical training will cover the general methods and technologies for performing cable testing in a nuclear power plant. These technologies have applications for routine condition monitoring assessments, emergent troubleshooting of cables, connectors, and end devices, as well as developing the foundation for a cable aging management program. The course will focus on promoting an understanding of the cable testing technologies and conveying operating experience during troubleshooting of nuclear instrumentation systems, radiation monitors, thermocouples, and other inherently sensitive plant systems. These efforts will be accomplished through class lectures as well as hands-on demonstrations of equipment and techniques as applied to the testing of nuclear power plant cables.

### TOPICS TO BE DISCUSSED WILL INCLUDE:

#### GENERAL CABLE TESTING METHODS AND TECHNOLOGIES

- Impedance
- DC Resistance
- Insulation Resistance
- Reflectometry Testing
- CHAR System Overview

#### FAULT LOCATION AND SHIELD INTEGRITY TESTING

- Time Domain Reflectometry (TDR)
- Frequency Domain Reflectometry (FDR)
- Shield Integrity/Reverse TDR

#### EMI/RFI CONSIDERATIONS

- Noise Coupling Mechanisms
- Troubleshooting Techniques
- Mitigation Devices

#### TROUBLESHOOTING EXAMPLES AND OE

- Nuclear Instrumentation
- Radiation Monitors
- RTDs/Thermocouples
- Rod Control/Indication

#### CABLE AGING MANAGEMENT

- In-situ Electrical Testing Techniques
- Cable Indenter
- Laboratory Assessment Methods



### COURSE INFORMATION

The course will be held at the Hyatt Regency Clearwater (301 South Gulfview Blvd, Clearwater, Florida, 33767) from Tuesday January 30th through Thursday February 1st, 2018.

Hotel accommodations must be reserved prior to January 1, 2018 to receive the discounted course rate of \$235.

Hotel reservations can be made at <https://aws.passkey.com/go/Analysismeasurement>.

### WHO SHOULD ATTEND

This course is designed for nuclear power plant system and design engineers, I&C supervisors and technicians, as well as corporate engineering and management. Personnel involved with Nuclear Instrumentation Systems, Radiation Monitors, and other sensitive and/or critical plant equipment will find this course the most beneficial.

### REGISTRATION INFORMATION

The fee for this three-day course is \$1800.

To register for this course or to receive future information, please contact Kayla Poland at [kayla@ams-corp.com](mailto:kayla@ams-corp.com)

Or see the course website at [www.ams-courses.com](http://www.ams-courses.com)

### INSTRUCTORS



Based on over 20 years of experience from testing cable circuits and instrumentation systems in essentially all the U.S. nuclear power plants and many in Europe and Asia, technical staff from Analysis and Measurement Services Corporation (AMS) will present this course at a level useful to both technical and management personnel in the nuclear industry.