



**ANALYSIS AND MEASUREMENT SERVICES CORPORATION**

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August 20<sup>th</sup>, 2024

Project No. 99902075

U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852-2738

Document Control Desk  
Attention: Mr. Jeffery Smith, Project Manager  
Washington, DC 20555-0001

**Subject: Submittal of Analysis and Measurement Services Corporation Topical Report AMS-CABLE TR-R0, “Condition Monitoring Methodology to Extend the Life of Cables”**

Reference: NRC Meeting Summary dated November 7, 2023, “U.S. Nuclear Regulatory Commission Summary of the October 27, 2023, Observation Public Meeting to Discuss Analysis and Measurement Services Corporation’s Plan for Topical Report on Cable Condition Monitoring Methodologies” (ADAMS Accession No. ML23303A140)

Dear Mr. Jeffery Smith:

Analysis and Measurement Services Corporation (AMS) met with NRC on November 7, 2023 and June 10, 2024 to discuss the submittal of Topical Report AMS-TR-0524R0, “Condition Monitoring Methodology for Life Extension and Aging Management of Electrical Cables.” The Topical Report describes a cable condition monitoring methodology that can be implemented by utilities to justify extending the service life of safety and non-safety related electrical cables in nuclear power plants. Utilities can also use the methodology described here to accurately quantify the aged condition of cables and make informed decisions about cable maintenance and replacement activities.

AMS is requesting formal review of the Topical Report AMS-CABLE TR-R0 in accordance with the NRC topical report program for review and acceptance for referencing in regulatory actions. The following documents are submitted in support of the AMS Topical Report review:

Document Title	Revision Level	Classification
AMS-CABLE TR-R0, “Condition Monitoring Methodology for Life Extension and Aging Management of Electrical Cables”	R0	Proprietary
	R0	Non-proprietary

AMS requests that the proprietary documents be withheld from public disclosure. In accordance with 10 CFR 2.390, "Public inspections, exemptions, requests for withholding," an affidavit is enclosed identifying the specific portions of the above documents that are proprietary and the basis for making that determination. A non-proprietary version of the AMS Topical Report is also provided with the proprietary information redacted.

Please contact me at (865) 691-1756 ext. 128 or by email at [hash@ams-corp.com](mailto:hash@ams-corp.com) with any questions.

Best regards,

A handwritten signature in black ink that reads "H.M. Hashemian". The signature is written in a cursive style with a small dot above the 'i' in Hashemian.

H.M. Hashemian, Ph.D.  
President and CEO  
AMS Corporation

- Enclosures:
1. AMS-CABLE TR-R0, "Condition Monitoring Methodology to Extend the Life of Cables" (NON-PROPRIETARY)
  2. AMS-CABLE TR-R0, "Condition Monitoring Methodology to Extend the Life of Cables" (PROPRIETARY)
  3. AMS Affidavit