



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

October 8, 2024

Mr. Greg Morton  
Chief Technical Officer and Quality Assurance Manager  
Analysis and Measurement Services  
9119 Cross Park Drive  
Knoxville, TN 37923

SUBJECT: NUCLEAR REGULATORY COMMISSION INSPECTION REPORT OF  
ANALYSIS AND MEASUREMENT SERVICES NO. 99902075/2024-201

Dear Mr. Morton:

On August 26 - 30, 2024, the U.S. Nuclear Regulatory Commission (NRC) staff conducted an inspection at the Analysis and Measurement Services (hereafter referred to as AMS) facility in Knoxville, TN. The purpose of this limited-scope routine inspection was to assess AMS' compliance with provisions of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 21, "Reporting of Defects and Noncompliance," and selected portions of Appendix B, "Quality Assurance Program Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities."

This technically-focused inspection specifically evaluated AMS' implementation of quality activities associated with the design, fabrication, calibration and testing of sensors and detectors, control rod drive motor testing and noise analysis, testing of plant protection system circuit boards, electro-magnetic compatibility, and cables, field services and technical training for NRC's regulated facilities. The enclosed report presents the results of the inspection. This NRC inspection report does not constitute NRC's endorsement of AMS' overall quality assurance (QA) or 10 CFR Part 21 programs.

Within the scope of this inspection, no violations or nonconformances were identified.

In accordance with 10 CFR 2.390, "Public inspections, exemptions, requests for withholding," and the NRC's "Rule of Practice," a copy of this letter, its enclosure(s), and your response will be made available electronically for public inspection in the NRC's Public Document Room or from the NRC's document system (ADAMS), accessible at <http://www.nrc.gov/reading-rm/adams.html>.

Enclosure:  
Inspection Report No. 99902075/2024-201  
and Attachment

Sincerely,



Diaz-Castillo, Yamir signing on behalf  
of Kavanagh, Kerri  
on 10/08/24

Kerri Kavanagh, Chief  
Quality Assurance Vendor Inspection Branch  
Division of Reactor Oversight  
Office of Nuclear Reactor Regulation

Docket No.: 99902075

EPID No.: I-2024-201-0044

SUBJECT: NUCLEAR REGULATORY COMMISSION INSPECTION REPORT OF  
ANALYSIS AND MEASUREMENT SERVICES NO. 99902075/2024-201  
DATE: October 8, 2024

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**NRR-106**

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<b>OFFICE</b>	NRR/DRO/IQVB	NRR/DRO/IQVB	
<b>NAME</b>	AKeim	KKavanagh YDiaz-Castillo for	
<b>DATE</b>	10/1/2024	10/8/2024	

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**U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF NUCLEAR REACTOR REGULATION  
DIVISION OF REACTOR OVERSIGHT  
VENDOR INSPECTION REPORT**

Docket No.: 99902075

Report No.: 99902075/2024-201

Vendor: Analysis and Measurement Services  
9119 Cross Park Drive  
Knoxville, TN 37923

Vendor Contact: Mr. Greg Morton  
Chief Technical Officer and Quality Assurance Manager  
Phone: (865) 691-1756 Ext. 118  
Email: greg@ams-corp.com

Nuclear Industry Activity: Analysis and Measurement Services' (hereafter referred to as AMS) scope of supply includes design, fabrication, calibration and testing of sensors and detectors, control rod drive motor testing and noise analysis, testing of plant protection system circuit boards, electro-magnetic compatibility, and cables testing, and field services and technical training for NRC's regulated facilities. AMS holds an accreditation from the American Association for Laboratory Accreditation as recognized by the International Laboratory Accreditation Cooperation's Mutual Recognition Arrangement.

Inspection Dates: August 26 – 30, 2024

Inspectors: Michael Fitzgerald    NRR/DRO/IQVB, Team Leader (In-Training)  
Dong Park                NRR/DRO/IQVB, Team Leader  
Andrea Keim             NRR/DRO/IQVB  
Yiu Law                    NRR/DRO/IQVB

Approved by: Kerri Kavanagh, Chief  
Quality Assurance and Vendor Inspection Branch  
Division of Reactor Oversight  
Office of Nuclear Reactor Regulation

Enclosure

## **EXECUTIVE SUMMARY**

Analysis and Measurement Services  
99902075/2024-201

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a limited-scope routine vendor inspection at the Analysis and Measurement Services' (hereafter referred to as AMS) facility in Knoxville, TN, to verify it had implemented an adequate quality assurance (QA) program that complies with the requirements of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities," and 10 CFR Part 21, "Reporting of Defects and Noncompliance." The NRC inspection team conducted this inspection on-site from August 26 – 30, 2024. This was the first NRC inspection at this facility.

This technically-focused inspection specifically evaluated AMS' implementation of the quality activities associated with the design, fabrication, calibration and testing of sensors and detectors, control rod drive motor testing and noise analysis, testing of plant protection system circuit boards, electro-magnetic compatibility, and cables, and field services and technical training for NRC's regulated facilities.

The following regulations served as the bases for the NRC inspection:

- Appendix B to 10 CFR Part 50
- 10 CFR Part 21

During this inspection, the NRC inspection team implemented Inspection Procedure (IP) 43002, "Routine Inspections of Nuclear Vendors," dated February 10, 2023; IP 43004, "Inspection of Commercial-Grade Dedication Programs," dated February 10, 2023; and IP 36100, "Inspection of 10 CFR Part 21 and Programs for Reporting of Defects and Noncompliance," dated February 10, 2023.

The NRC inspection team observed the following specific activities:

- Receipt inspection and calibration of the Online Monitoring System
- Loop Current Step Response data analysis
- Electro-magnetic compatibility testing of a control cabinet
- Demonstration of triple point calibration equipment and process

The results of the inspection are summarized below.

### **Inspection Areas**

The NRC inspection team determined that AMS established its programs for 10 CFR Part 21, design control, commercial-grade dedication, procurement document control and oversight of contracted activities, identification and control of materials, parts, and components, special processes, test control, control of measuring and test equipment, nonconforming materials, parts, or components, corrective action, and internal audits, in accordance with the applicable regulatory requirements of Appendix B to 10 CFR Part 50. Based on the limited sample of

documents reviewed and activities observed, the NRC inspection team also determined that AMS is implementing its policies and procedures associated with these programs. No findings of significance were identified in these areas.

## REPORT DETAILS

### 1. 10 CFR Part 21 Program

#### a. Inspection Scope

The U.S. Nuclear Regulatory Commission (NRC) inspection team reviewed Analysis and Measurement Services' (hereafter referred to as AMS) policies and implementing procedures that govern the implementation of its Title 10 of the *Code of Federal Regulations* (10 CFR) Part 21, "Reporting of Defects and Noncompliance," program to verify compliance with the regulatory requirements. The NRC inspection team evaluated the 10 CFR Part 21 postings and a sample of AMS' purchase orders (POs) to verify compliance with the requirements of 10 CFR 21.6, "Posting Requirements," and 10 CFR 21.31, "Procurement Documents." AMS had no 10 CFR Part 21 evaluations to review. The NRC inspection team also verified that AMS' nonconformance and corrective action procedures provide a link to its 10 CFR Part 21 program.

The NRC inspection team discussed the 10 CFR Part 21 program with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.

#### b. Observations and Findings

No findings of significance were identified.

#### c. Conclusion

The NRC inspection team concluded that AMS is implementing its 10 CFR Part 21 program in accordance with the regulatory requirements of 10 CFR Part 21. Based on the limited sample of documents reviewed, the NRC inspection team also determined that AMS is adequately implementing its policies and procedures associated with the 10 CFR Part 21 program. No findings of significance were identified.

### 2. Design Control

#### a. Inspection Scope

The NRC inspection team reviewed AMS' policies and procedures that govern the implementation of its design control program to verify compliance with the regulatory requirements of Criterion III, "Design Control," of Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities."

The NRC inspection team noted that all the design control work performed by AMS is in the area of software development. The NRC inspection team reviewed a sample of completed software development packages and verified that the different phases of the software life cycle, including requirement, design, implementation, integration, testing, installation, operation, and maintenance, were adequately addressed.

The NRC inspection team also discussed the design control program with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that AMS is implementing its design control program in accordance with the regulatory requirements of Criterion III of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that AMS is implementing its policies and procedures associated with its design control program. No findings of significance were identified.

3. Commercial-Grade Dedication

a. Inspection Scope

The NRC inspection team reviewed AMS' policies and implementing procedures that govern the implementation of its commercial-grade dedication (CGD) program to verify compliance with the regulatory requirements of Criterion III and Criterion VII, "Control of Purchased Material, Equipment, and Services," of Appendix B to 10 CFR Part 50.

The NRC inspection team reviewed a sample of AMS' completed CGD project documents, including CGD technical evaluations and plans, acceptance criteria, verification and validation reports, receipt inspection forms, and associated POs. The NRC inspection team evaluated the criteria for the identification of the safety functions, selection of critical characteristics and acceptance criteria, selection of verification methods, and the justification provided for the sampling methodologies, as applicable, to verify effective implementation of AMS' CGD process. The NRC inspection team confirmed that AMS' CGD process provides reasonable assurance that the items and services being dedicated will perform their intended safety function.

The NRC inspection team also reviewed AMS's measures established for the use of the International Laboratory Accreditation Cooperation (ILAC) accreditation process in lieu of performing commercial-grade surveys for procurement of calibration and testing services as part of the CGD process. AMS currently implements this process as described in the Nuclear Energy Institute document No. 14-05A, "Guidelines for the Use of Accreditation in Lieu of Commercial Grade Surveys for Procurement of Laboratory Calibration and Test Services," Revision 1, dated September 2020, which was recognized for use by the NRC in a safety evaluation dated November 23, 2020 (Agencywide Documents Access Management System Accession No. ML20322A019).

The NRC inspection team also discussed the CGD program with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.



b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that AMS is implementing its CGD program in accordance with the regulatory requirements of Criterion III and Criterion VII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that AMS is implementing its policies and procedures associated with the CGD program. No findings of significance were identified.

4. Procurement Document Control and Oversight of Contracted Activities

a. Inspection Scope

The NRC inspection team reviewed AMS' policies and implementing procedures that govern the implementation of its procurement document control and supplier oversight programs to verify compliance with the regulatory requirements of Criterion IV, "Procurement Document Control," and Criterion VII of Appendix B to 10 CFR Part 50.

The NRC inspection team reviewed a sample of POs, and AMS' Accredited Suppliers List. Since AMS does not procure safety-related items, the NRC inspection team verified that the POs included the conditions required for the CGD of calibration services in lieu of performing commercial-grade surveys. AMS is a specialized vendor providing safety-related services that is also an accredited laboratory by an accreditation body part of the ILAC Mutual Recognition Arrangement. The NRC inspection team reviewed the procurement documentation of calibration standards from National Institute of Standards and Technology. In addition, the NRC inspection team verified that for the sample of receipt inspection records reviewed (e.g., receipt inspection reports, Certificates of Compliance, and Certificate of Calibration), these records were: (1) reviewed by AMS for compliance with the requirements of the POs, (2) approved by qualified individuals, and (3) contained the applicable technical and regulatory information.

The NRC inspection team also discussed the procurement document control and supplier oversight programs with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that AMS is implementing its procurement document control and supplier oversight programs in accordance with the regulatory requirements of Criterion IV and Criterion VII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that AMS is adequately implementing its policies and procedures associated with the procurement document control and supplier oversight programs. No findings of significance were identified.

## 5. Test Control

### a. Inspection Scope

The NRC inspection team reviewed AMS' policies and implementing procedures that govern the implementation of its test control program to verify compliance with the regulatory requirements of Criterion XI, "Test Control," of Appendix B to 10 CFR Part 50.

The NRC inspection team observed the pre-trip preparation for resistance temperature detector time response testing. The NRC inspection team observed that technicians adequately verified test equipment before and after testing. The NRC inspection team verified that AMS' test procedures adequately included the applicable technical, quality, and regulatory requirements. The NRC inspection team verified that the: (1) test parameters; (2) test acceptance criteria; (3) test prerequisites; and (4) use of calibrated equipment was in accordance with procurement requirements.

The NRC inspection team observed the loop current step response data analysis to understand the post-testing data evaluation process. The NRC inspection team verified that the post-test data analysis was performed by qualified personnel and routed to the Quality Assurance Assistant for review. The NRC inspection team witnessed electro-magnetic compatibility testing associated with a Standby Shutdown Facility (SSF) Wide Range Neutron Flux Amplifier Enclosure, as well as the electrical fast transient/burst test. The NRC inspection team reviewed the training and qualification records of the test and laboratory technicians performing the test and confirmed that testing personnel had completed and maintained the applicable qualification and certification in accordance with AMS' procedures. The NRC inspection team also reviewed the routing and review process for the test specific plans.

The NRC inspection team discussed the test control program with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.

### b. Observations and Findings

No findings of significance were identified.

### c. Conclusion

The NRC inspection team concluded that AMS is implementing its test control program in accordance with the regulatory requirements of Criterion XI of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that AMS is implementing its policies and procedures associated with the test control program. No findings of significance were identified.

## 6. Control of Measuring and Test Equipment (M&TE)

### a. Inspection Scope

The NRC inspection team reviewed AMS' policies and implementing procedures that govern the implementation of its M&TE program to verify compliance with the regulatory requirements of Criterion XII, "Control of Measuring and Test Equipment," of Appendix B to

10 CFR Part 50.

For a sample of M&TE, the NRC inspection team determined that the M&TE had the appropriate calibration stickers and current calibration dates, including the calibration due date. The NRC inspection team also verified that the M&TE had been calibrated, adjusted, and maintained at prescribed intervals prior to use. In addition, the calibration records reviewed by the NRC inspection team indicated the as-found or as-left conditions, accuracy required, calibration results, calibration dates, and the due date for recalibration.

The NRC inspection team confirmed that when M&TE equipment is found to be out of calibration, an out of tolerance report is initiated, and an evaluation is performed to determine if the M&TE was previously used. The NRC inspection team performed a walk-down of AMS' M&TE area to observe that M&TE were labeled, handled, and stored in a manner that indicated the calibration status of the instrument and ensured its traceability to calibration test data.

The NRC inspection team discussed the control of M&TE with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that AMS is implementing its M&TE program in accordance with the regulatory requirements of Criterion XII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that AMS is implementing its policies and procedures associated with the M&TE program. No findings of significance were identified.

7. Nonconforming Materials, Parts, or Components and Corrective Action

a. Inspection Scope

The NRC inspection team reviewed AMS' policies and implementing procedures that govern the implementation of its nonconforming materials, parts, or components and corrective action programs to verify compliance with the regulatory requirements of Criterion XV, "Nonconforming Materials, Parts, or Components," and Criterion XVI, "Corrective Action," of Appendix B, to 10 CFR Part 50.

The NRC inspection team verified that AMS' processes and procedures provide for the identification, documentation, segregation, evaluation, and disposition of nonconforming items. These processes also apply the principles of rework, repair, reject, use-as-is.

The NRC inspection team observed AMS' laboratory operations and verified that nonconforming materials, parts, or components were properly identified, marked, and segregated, when practical. The NRC inspection team reviewed a sample of nonconforming material reports (NCRs) that were associated with the safety-related testing services to confirm that AMS dispositioned the nonconforming materials in accordance with the

applicable procedures, documented an appropriate technical justification for various dispositions, and took adequate corrective action regarding the nonconforming items to prevent recurrence, as appropriate.

The NRC inspection team also reviewed a sample of corrective action requests (CARs) to verify: (1) adequate documentation and description of conditions adverse to quality; (2) an appropriate analysis of the cause of these conditions and the corrective actions taken to prevent recurrence; (3) direction for review and approval by the responsible authority; (4) a description of the current status of the corrective actions; and (5) the actions taken to verify timely and effective implementation of the corrective actions.

The NRC inspection team discussed the nonconforming materials, parts, or components and corrective action programs with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that AMS is implementing its nonconforming materials, parts, or components and corrective action programs in accordance with the regulatory requirements of Criterion XV and Criterion XVI of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team also determined that AMS is implementing its policies and procedures associated with its nonconforming materials, parts, or components and corrective action programs. No findings of significance were identified.

8. Internal Audits

a. Inspection Scope

The NRC inspection team reviewed AMS' policies and implementing procedures that govern the implementation of its internal audits program to verify compliance with the regulatory requirements of Criterion XVIII, "Audits," of Appendix B to 10 CFR Part 50. The NRC inspection team reviewed AMS' internal audit plans, internal audit reports, and CARs generated during internal audits, when applicable. The NRC inspection team verified that the audit documents reviewed were adequately completed and that AMS adequately corrected the conditions identified in CARs generated during internal audits. The NRC inspection team verified that AMS' procedures described the scope and purpose of audits to be performed, the frequency, audit criteria, and corrective actions when required. The NRC inspection team verified that the audit teams were selected using qualified auditors and that they were not auditing their own work. The NRC inspection team verified that internal audits were performed using checklists.

The NRC inspection team discussed the internal audits program with AMS' management and technical staff. The attachment to this inspection report lists the documents reviewed and personnel interviewed by the NRC inspection team.

b. Observations and Findings

No findings of significance were identified.

c. Conclusion

The NRC inspection team concluded that AMS is implementing its internal audits program in accordance with the regulatory requirements of Criterion XVIII of Appendix B to 10 CFR Part 50. Based on the limited sample of documents reviewed, the NRC inspection team determined that AMS is adequately implementing its policies and procedures associated with the internal audits program. No findings of significance were identified.

9. Entrance and Exit Meetings

On August 26, 2024, the NRC inspection team discussed the scope of the inspection during the entrance meeting with Dr. Hash Hashemian, AMS' President and CEO, and other members of AMS' management and technical staff. On August 30, 2024, the NRC inspection team presented the inspection results during an exit meeting with Mr. Greg Morton and other members of AMS' management and technical staff. The attachment to this report lists the attendees of the entrance and exit meetings, as well as those individuals whom the NRC inspection team interviewed.

## ATTACHMENT

### 1. ENTRANCE/EXIT MEETING ATTENDEES

<b>Name</b>	<b>Position</b>	<b>Affiliation</b>	<b>Entrance</b>	<b>Exit</b>	<b>Interviewed</b>
Dr. Hash Hashemian	President and CEO	Analysis & Measurement Services (AMS)	X	X*	
Greg Morton	Chief Technological Officer and Quality Assurance (QA) Manager	AMS	X	X	X
Chad Kiger	Electro Magnetic Compatibility (EMC) Engineering Manager	AMS	X	X	X
Eternity Perry	Assistant QA Manager	AMS	X	X	X
Allyson Pearce	QA Consultant	AMS	X		
D. Jason Thomason	Laboratory Supervisor and QA Assistant	AMS			X
Seth Thompson	Electronics Technician	AMS			X
Eric Cooper	Assistant Laboratory Supervisor	AMS			X
Morgan Berg	EMC Engineer	AMS			X
Leif Orrell	Electronics Technician	AMS			X
Ben Fennema	Electronics Technician	AMS			X
Casey Sexton	Cable Services Group Manager	AMS			X

<b>Name</b>	<b>Position</b>	<b>Affiliation</b>	<b>Entrance</b>	<b>Exit</b>	<b>Interviewed</b>
Trevor Toll	Lead Engineer – Material Testing Laboratory	AMS			X
Doug Price	EMC Laboratory Supervisor	AMS			X
James Davis	Engineering Technician	AMS			X
Sam Caylor	Systems Development Manager	AMS			X
Chris Maddux	Senior Software Developer	AMS			X
Brent Shumaker	Senior Engineering Manager	AMS			X
Darrell Mitchell	Technical Services Manager	AMS			X
Ryan O’Hagan	Marketing Manager	AMS			X
Adam Deatherage	Applications Engineer	AMS			X
Michael Fitzgerald	Inspection Team Leader (In-Training)	Nuclear Regulatory Commission (NRC)	X	X	
Dong Park	Inspection Team Leader	NRC	X	X	
Andrea Kiem	Inspector	NRC	X	X	
Yiu Law	Inspector	NRC	X	X	
Kerri Kavanagh	Branch Chief	NRC		X*	

\*Remote

**2. INSPECTION PROCEDURES USED:**

- Inspection Procedure (IP) 43002, “Routine Inspections of Nuclear Vendors,” dated February 10, 2023
- IP 43004, “Inspection of Commercial-Grade Dedication Programs,” dated February 10,

2023

- IP 36100, "Inspection of 10 CFR Part 21 and Programs for Reporting of Defects and Noncompliance," dated February 10, 2023

### 3. DOCUMENTS REVIEWED

#### Quality Assurance Procedures (QAP)

- List Of AMS Procedures as of August 2024
- QAM0101, "Quality Assurance Manual," Revision 12, dated January 2021
- AFL1701, "Procedure for As-Found/As-Left Analysis of Transmitter Calibration Data," Revision 0, dated May 2017
- AUD8601, "Procedure for Quality Assurance Audits," Revision 8, dated October 2013
- CAT9201, "Procedure for Producing and Tracking Condition Reports of Corrective Action," Revision 9, dated February 2020
- CDR8601, "Procedure for Control of Documents and QA Records," Revision 10, dated May 2022
- CFB1401, "Procedure for Obtaining Customer Feedback from Work Performed by AMS," Revision 2, dated August 2020
- CGC1110, "Procedure for Dedication of Accredited Commercial Calibration Services," Revision 5, dated May 2022
- CGT1701, "Procedure for the Dedication of Accredited Commercial Testing Services," Revision 1, dated December 2017
- GPC9201, "General Procedure for the Calibration and use of Measurement and Test Equipment," Revision 5, dated September 2020
- GRS8401, "General Procedure for Receiving, Storage, and Shipping," Revision 12, April 2022
- NCP8401, "Procedure for Identification and Control of Nonconforming Activities and Items," Revision 9, dated August 2020
- OLM0901, "Procedure for Calibration Check of AMS OLM Noise Data Acquisition Equipment," Revision 3, dated February 2013
- PDC8701, "Procedure for Design Control," Revision 0, dated February 1987
- PEC8401, "Procedure for Pre-Trip Equipment Checkout," Revision 12, dated July 2020
- PRR1401, "Procedure for Producing AMS Final Reports," Revision 3, dated June 2020
- PQP8501, "Personnel Qualification Procedure," Revision 15, dated July 2021
- PIT9501, "General Procedure For In-Plant Testing," Revision 6, dated September 2016
- QAD0901, "Qualification of Internal Auditors and Lead Auditors to Perform Audits of and for the AMS Quality Assurance Program," Revision 2, dated April 2022
- SCM0101, "Software Configuration Management Plan for Analysis and Measurement Services Corporation," Revision 4, dated May 2014
- SDC8601, "Procedure for Computer Software and Data Control," Revision 10, dated August 2016
- SDM9201, "Procedure for Software Development or Modification," Revision 8, dated August 2016
- TCR8901, "Administration of 10 CFR Part 21 Requirements," Revision 8, dated March 2020



#### Design Control (Software Package)

- Control Rod Drive Mechanism No. 47, dated January 2024
- IEC-HRAD11, dated June 2024
- Rod Position Indication Calibration No. 10, dated October 2023
- TEA31, dated March 2024

#### Commercial Grade Dedication Package

- List of Commercial Grade Dedications for August 2022 - August 2024
- KRM022024-02, Commercial Grade Dedication Package for a 4 Channel Oscilloscope
- RS06252024-001, Commercial Grade Dedication Package for a Multimeter / DC Power Supply
- RS01262024-003, Commercial Grade Dedication Package for a 1 GHz, 4 Channel, Real Time Oscilloscope
- RS03122024-001, Commercial Grade Dedication Package for a Double Ridged Guide Horn
- RS11132023-001, Commercial Grade Dedication Package for a Tensile Tester
- RS12162022-001, Commercial Grade Dedication Package for a Vector Network Analyzer
- RS100032022-001, Commercial Grade Dedication Package for a 2kg Stainless Steel Weight

#### Audit/Survey

- 2023 AMS Internal Audit Report
- AUD-22-02, AMS Internal Audit Report, dated October 20, 2022
- AUD-23-02, AMS Internal Audit Report, dated October 11, 2023
- AUD-24-02, AMS Internal Audit Report, dated August 16, 2024

#### Purchase Orders (PO)

- AMS Accredited Suppliers List, dated August 16, 2024
- PO No. SNG10341154 – Post-test analysis and reporting for RTD and transmitter response time testing
- PO No. 70399801 - Post-test analysis and reporting for RTD response time testing
- PO No. 150363 CO 1 - EMC Qualification Testing of Diesel Generator Engine Control System
- PO No. 1024034389 CO 1 - EMC Qualification Testing of SSF Wide Range Neutron Flux Amplifier Enclosure
- PO No. KRM120919-05 - Standard Platinum Resistance Thermometer (SPRT)
- PO No. KRM010424-02 – Solid-State Voltage Standard, 10 kilo-ohm Standard Resistor, and 10-ohm Standard Resistor
- PO No. C1007292, dated March 4, 2023
- PO No. B08289, dated September 13, 2023

#### Test Control Documents

- Test Plan for EMC Qualification Testing of a SSF Wide Range Neutron Flux Monitoring

- System Amplifier Enclosure, dated August 2024
- Test Plan for EMC Qualification Testing of The Emergency Diesel Generator Engine Control System, dated December 2023
- Pre-Trip Plant Research Checklist for PO No. B08289, dated August 27, 2024

#### AMS Accredited Suppliers Measuring and Test Equipment Documents

- Receipt Inspection
- Calibration Package
- A2LA Certificate. No. 3483.01, dated March 30, 2023
- Certificate of Calibration No. 1097.01, dated September 5, 2023 (meter light)
- Certificate of Calibration CPS001-21-04-01582-4, dated April 26, 2021 (digital surface thermometer)
- Calibration Certificate for a SPRT, dated April 2024
- Calibration Report for a Solid-State Voltage Standard, dated April 2024
- Calibration Report for a 10 kilo-ohm Standard Resistor, dated April 2024
- Calibration Report for a 10 ohm Standard Resistor, dated March 2024
- Calibration Report 1-ohm Standard Resistor, dated March 2024
- Calibration Certificate Package for a Noise Test Unit, dated August 2024
- Calibration Certificate Package for a Rod Diagnostic Unit, dated June 2024
- Calibration Certificate Package for a Rod Drop Test Unit, dated March 2024
- Calibration Certificate Package for a Rod Drop Test Unit, dated June 2024
- Calibration Certificate Package for an Isolation Amplifier, dated November 2023
- Calibration Certificate Package for a CRDM/Cyclor D/A, dated June 2024
- Calibration Certificate for A/D Converter, 1C5FA5D, dated August 12, 2024
- Calibration Certificate for LCSR/SHI Test Unit, 190615302, dated August 12, 2024

#### Nonconformance Reports (NCRs)

- List of Nonconformances for August 2022 - August 2024
- NCRs 211002, 2111103, 220301, 220501, 220804, 230802, 231201, 240101, 240801

#### Condition Reports (CRs)

- List of Condition Reports for August 2022 - August 2024
- CRs 220401, 230801, 231201, 240401, 240601

#### Corrective Action Reports Opened During the Inspection

- CAR 240801

#### Training Records

- Lief Orrell
- Morgan Berg
- Chad Kiger
- Greg Morton
- Eternity Perry

### Test Control Documents

- Test Report DCC2302R1-L
- Cyclic redundancy check Master List, Version 2.4

### Miscellaneous

- Approved Supplier List
- Quarterly Corrective Action Reviews – 2023 3<sup>rd</sup> Quarter, 2023 4th Quarter, 2024 1<sup>st</sup> Quarter, 2024 2<sup>nd</sup> Quarter