Memo

To	All Concerned Parties / Nuclear Industry Customers
From	Parth Patel, Quality Manager parth.patel@element.com
Cc	Justin Nelson, General Manager Justin.nelson@element.com
Subject	Confirmation of NIAC Audit Compliance and Nuclear Testing Capabilities – Element Materials Technology, Charlotte Facility
Date	08-12-2025

This memo serves to inform all relevant parties, particularly our valued customers, regarding the status and qualifications of Element Materials Technology – Charlotte as a certified testing site for nuclear-related materials and components.

Overview:

Element Materials Technology – Charlotte, located at 1200 Westinghouse Blvd, Suite A, Charlotte, NC, 28273, has successfully completed a Nuclear Industry Assessment Committee (NIAC) audit, conducted August 13–15, 2024. The audit was performed in strict accordance with the latest revision of NEI 14-05A, ASME NQA-1 (1994, 2008/2009a, and 2015 editions), and applicable regulatory requirements including 10 CFR 50 Appendix B, 10 CFR 21, and 10 CFR 50.55(e).
The audit validated the facility's technical capabilities, quality management systems, and procedural compliance with the rigorous standards of the nuclear industry.
Element Charlotte's technical and quality capabilities were confirmed for the following NIAC-approved scope of services:

- *Mechanical Testing*
- *Metallurgical Analysis*
- *Chemical Analysis*

The specific tests under each of these categories are detailed in our A2LA-accredited scope of accreditation.
All audit findings and corrective actions have been successfully addressed and closed. This outcome reflects the strength of our quality program and the dedication of our team to continuous improvement and excellence in supporting the nuclear industry.

Technical Compliance and Regulatory Alignment:

Element Charlotte is committed to Nuclear Industry Standards and Regulatory Excellence. Our Quality Management System is purpose-built to meet and exceed the stringent regulatory and quality requirements of the U.S. nuclear industry. Our program is designed to deliver traceable, technically sound, and regulatory-compliant results that meet the highest standards for safety-related applications. It is firmly anchored in the following core requirements:

- **10 CFR Part 50, Appendix B – Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants:**
  This federal regulation serves as the foundation of our Quality Assurance (QA) program. Element Charlotte has established comprehensive processes and rigorous documentation practices to fully comply with the requirements outlined in Appendix B. These controls apply to all aspects of our testing, calibration, and reporting activities, ensuring traceability, repeatability, and

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accountability in support of safety-related components. Our adherence to these criteria enables consistent, high-integrity results that meet the expectations of the nuclear industry.

- **ASME NQA-1 – Quality Assurance Requirements for Nuclear Facility Applications:** We implement applicable requirements from multiple editions of ASME NQA-1 (1994, 2008/2009a, and 2015) to establish a comprehensive framework for procedural control, documentation, training, and continuous quality improvement. This ensures a consistent and validated approach across all laboratory operations.
- **10 CFR Part 21 – Reporting of Defects and Noncompliance:** Our procedures support the early identification, evaluation, and timely reporting of potential defects or noncompliance. This commitment to transparency and accountability strengthens industry-wide safety and regulatory adherence.
- **10 CFR 50.55(e) – Early Reporting of Deficiencies in Safety-Related Structures, Systems, or Components:** We maintain systems to ensure compliance with this requirement for timely reporting of conditions that could represent a substantial safety hazard in nuclear facility applications.

In addition to regulatory alignment, Element Charlotte holds ISO/IEC 17025 accreditation, and our implementation of this standard integrates seamlessly with nuclear-specific quality expectations. Our laboratory practices emphasize:

- *Data integrity and technical validity*
- *Full traceability of results and documentation*
- *Consistent compliance with applicable industry guidance and regulatory expectations*

This comprehensive approach positions Element Charlotte as a trusted, qualified partner in the nuclear supply chain—capable of delivering high-confidence mechanical testing, metallurgical analysis, and chemical analysis services for safety-related and mission-critical components.

Scope of Testing and Accreditation:

Element Materials Technology - Charlotte holds current A2LA and Nadcap accreditation, with an accredited scope covering a wide range of mechanical, chemical, and metallurgical testing services essential to the nuclear sector. The link to A2LA (2335.01 & 2335.02) and Nadcap (Certificate) and scope document further delineate the specific capabilities and standards met by the facility. These accreditations and audit outcomes verify that testing methodologies, equipment calibration, personnel qualifications, and documentation processes all meet or exceed nuclear industry requirements.

Customer Assurance and Support:

Element Charlotte is in excellent standing to serve nuclear end-use customers with comprehensive testing solutions, including but not limited to:

- Material characterization and verification
- Mechanical and metallurgical testing per ASME and ASTM codes
- Failure analysis

Our commitment is to deliver timely, accurate, and fully traceable testing results, facilitating your regulatory submissions and quality assurance processes with confidence.

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Access to NIAC Audit Documentation:

As a member of NIAC, Element Charlotte provides full transparency by granting audit package access to all fellow NIAC members. Customers and stakeholders who hold NIAC membership can request the complete audit documentation by contacting the designated NIAC auditor directly. This openness ensures confidence in our operational integrity and quality controls.

NIAC Auditor Contact Information:

- Name: Frances Faulkenberg
- Designation: Quality Engineering Technician
- Company Name: LISEGA Inc · United States
- Company Address: 370 E Dumplin Valley Rd · Kodak, TN 37764
- Contact Details:
  - Tel: +1 (865) 940-5374, Mobile: +1 (865) 352-6711
  - Email: Frances.Faulkenberg@us.lisega.com
- Internet: http://www.lisega.com

Please do not hesitate to reach out to me directly or to the NIAC auditor should you require further technical details, audit documentation, or assistance in defining your testing needs.

Thank you for your continued partnership and trust in Element Materials Technology – Charlotte as your qualified nuclear testing provider.

Memo Approval Signatures & Date:

08-12-2025

Justin Nelson
General Manager

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Parth Patel
Quality Manager

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