

# NRC Update

**NUPIC General Membership Meeting - June 23 & 24, 2025 - Austin, TX**

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# Regulatory Timelines for the Restart of Decommissioned Reactors

- Palisades Nuclear Plant
  - Submitted the regulatory path to reauthorize power operations for NRC review on February 1, 2023. Several licensing actions are under review by the NRC staff. The NRC staff currently expects to issue its final decisions on the licensing actions by July 31, 2025.
- Christopher M. Crane Clean Energy Center
  - Submitted the regulatory path to reauthorize power operation for NRC review on November 4, 2024, and a request for exemption from certain termination of license requirements of 10 CFR 50.82 on November 19, 2024. The NRC staff currently expects to issue its final decision on the exemption request by January 31, 2026.

# Regulatory Timelines for the Restart of Decommissioned Reactors

- Duane Arnold Energy Center
  - Submitted the regulatory path to reauthorize operations and a request for exemption from certain termination of license requirements of 10 CFR 50.82 for NRC review on January 23, 2025. Several additional license amendment reqeds including subsequent license renewal are expected to be submitted soon.
- For more information on these restarts please go to:

<https://www.nrc.gov/info-finder/decommissioning/index.html#restart>

# Advanced Reactors Licensing Status

## Approved:

- Hermes Test Reactor Unit 1 and 2 Construction Permits (CPs) (Kairos)
- Abilene Christian University Molten Salt Research Reactor CP
- NuScale US600 Small Modular Reactor (SMR) Design Certification
- NuScale US460 SMR Standard Design Approval

## Under Review:

- USO's Kemmerer Unit 1 CP (TerraPower)
- Long Mott Energy CP (Xe-100 HTGR)
- TVA's Clinch River CP (BWRX-300)



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# Recent & Upcoming Inspections

## Recent:

- Misstras
- GE Hitachi
- Framatome (Safeguards Information)
- Analysis & Measurement Services
- Southwest Research Institute
- Flowserve Pumps
- Westinghouse Electric Company (WEC) (Limerick D&IC upgrade)
- NuScale Aircraft Impact Assessment

## Upcoming:

- Element Materials Technology
- Operation Technology, Inc.
- Sargent & Lundy
- WEC (Limerick D&IC)



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# NRC Inspection Findings

- Flowserve - Vernon, CA
  - Criterion III “Design Control,” and Criterion VII, “Control of Purchased Material, Equipment, and Services”
    - Failed to verify the control of the critical characteristics for the commercial-grade dedication of the on-site calibration services for the granite surface plate and the balance machine.



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# NRC Inspection Findings

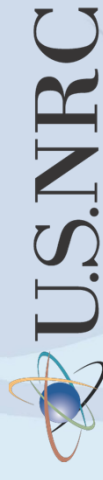
- Flowserve (cont.)
  - Criterion IV, “Procurement Document Control,” and Criterion VII
    - (1) Failed to invoke the applicable regulatory, technical, and quality requirements in the procurement documents for the water testing services to ensure the water meets the chemistry requirements used in the hydrostatic pressure testing and for the cleaning of the safety-related components, and (2) failed to perform an assessment of the water testing supplier to verify the adequate implementation of their quality controls associated with the supply of water testing services.



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# NRC Inspection Findings

- Flowserve (cont.)
  - Criterion XII, “Control of Measuring and Test Equipment”
    - Failed to calibrate the specific resistivity meter used to monitor the deionized water to ensure the specific resistivity is maintained at the 1 megohm-centimeter minimum limit and meet the water chemistry requirements for specific conductivity.



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# NRC Inspection Findings

- Flowserve (cont.)
  - Criterion XVI, “Corrective Action”
    - (1) Failed to assure that conditions adverse to quality are promptly identified and corrected (e.g., 7 CARs were past the 55-day due date with two having been opened for more than a year and (2) failed to open a CAR as identified in the 2023 and 2024 internal audits related to the CAR timeliness issue.

# ILAC Implementation Issues

- Identifying the conditions from Revision 1 of NEI 14-05A and the NRC's SER as the critical characteristics.
- Missing some of the conditions from the procurement documents (e.g., on-site accreditation required within the last 48 months).
- Not validating at receipt inspection that the purchase order's requirements were met.

# ILAC Implementation Issues

- Referencing the 2005 edition of ISO 17025 in the procurement documents.
- Not performing & documenting the receipt inspection.
- Laboratory is added to the Approved Suppliers List as a safety-related vendor.

# ILAC Implementation Issues

- The use of the ILAC accreditation process in lieu of performing a commercial-grade survey as part of the commercial-grade dedication process is an **ALTERNATIVE.**
- Licensees, applicants, and vendors are **NOT REQUIRED** to implement the ILAC accreditation process, but if they choose to, then they need to meet the requirements from Revision 1 of NEI 14-05A and the NRC's SER.

# Important Things To Be Aware Of

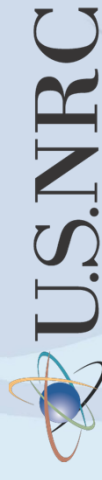
- Limitations of Use:
  - The NRC’s approval for using the ILAC accreditation process can only be implemented by a supplier who has a QA program that meets Appendix B to 10 CFR Part 50.
  - The ILAC accreditation process cannot be used as part of the commercial-grade dedication of NDE or NDT services.

# Important Things To Be Aware Of

- ASME incorporated the ILAC accreditation process into Subsection NCA, “General Requirements for Division 1 and 2.”
- NQA-1 also incorporated the ILAC accreditation process in the 2017, 2019, and 2022 edition in Subpart 2.19.
- Revision 6 of Regulatory Guide 1.28 imposes a condition that Revision 1 of NEI 14-05A be used instead of Subpart 2.19.

# Upcoming Information Notice

- Information Notice (IN) titled “Use of Approved Quality Assurance Alternatives During Exigent Conditions,” expected to be issued in the Summer 2025.
- The purpose of the IN is to inform the nuclear industry of the potential for inappropriate implementation of the QA alternatives approved for use during exigent conditions:
  - (1) Use of the QA alternatives to qualify new suppliers, and (2) licensees, applicants, and/or vendors incorrectly determining when an exigent condition exists.
- The IN will provide more information on who can declare an exigent condition that will allow for the QA alternatives to be implemented.



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# ASME Code Case N-883

- NEI requested a public meeting to present on behalf of the industry a framework for a future licensee to use components fabricated under ASME Code Case N-883.
- Meeting is scheduled for Wednesday, June 25, 2025, from 11am to 12pm.
- The link to the meeting can be found at:  
<https://www.nrc.gov/pmns/mtg?do=details&Code=20250733>

# Revision 0 of NEI 22-04

- On May 22, 2025, NEI submitted for NRC’s review and endorsement Revision 0 of NEI 22-04, “Utilization of ISO 9001 and Other Non-nuclear Suppliers for Safety-Related Applications.”
- The NRC staff is starting its review of the document. No public meeting scheduled yet.
- NEI 22-04 is publicly available and can be found at ADAMS Accession No. ML25162A142.



# QUESTIONS?

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