



Nuclear Safety

Associates

Setting the Standard for Readiness Assurance, Audits and Inspections



READINESS

NSA'S READINESS SUPPORT GROUP has exceptional experience in Readiness Assessments, Operational Readiness Reviews, and Audits, and maintains a staff of highly qualified Readiness Assurance experts that is available to support your most important projects. We also have renowned in-house Subject-Matter-Experts (SMEs) available to participate on readiness teams.

Readiness Support

Readiness is the state of preparation where the facility, personnel, equipment, and procedures are in a condition that would allow the facility to process material or operate in a **safe and compliant** manner without additional facility, personnel, equipment, or procedure changes.

NSA has extensive experience in preparing high hazard nuclear facilities for operation.

- Develop operating and maintenance procedures using **Integrated Safety Management System** principles to meet regulatory requirements.
- Develop administrative procedures for **change control**, document and records management, and other disciplines required to support operations of a high hazard nuclear facility.
- Base-line facilities, systems and equipment by development of P&IDs, process flow diagrams, master equipment lists, and system and **facility design documents**.
- Develop and implement **Safety Basis** documents such as Nuclear Criticality Safety Evaluations, Documented Safety Analyses, Safety Analysis Reports, Technical Safety Requirements, Hazard Identification and Evaluation documents, and Accident Analyses.
- Support facility preparations, including facility **acceptance testing**, system/equipment functional testing, integrated testing, and startup testing.
- Develop and implement training programs using a **Systematic Approach to Training**, including needs analysis, task to training matrices, task analysis, and training material development.

Readiness Assessments and Operational Readiness Reviews

NSA's Readiness Support Group can provide experienced personnel to:

- Perform **Nuclear Criticality Safety** implementation reviews to determine if all required Criticality Safety controls have been implemented as required by the Criticality Safety Evaluation.
- Assist the facility in performing **Management Self-Assessments** to determine if facility or operation is ready for operation/startup.
- Plan and lead independent **Readiness Assessments** to determine if the facility can safely and compliantly operate prior to processing hazardous materials or performing hazardous operations.
- Plan and lead **Implementation Validation Reviews** to ensure Safety Basis controls have been properly implemented.
- **Develop programs** for Readiness and Safety Basis implementation and assessment for the facility.
- Provide **Subject Matter Experts** in various disciplines to support Contractor Operational Readiness Reviews.

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Audits and Inspections

NSA staff members have led and supported many audits and inspections of safety programs, technical analyses, evaluation implementation, and quality assurance program implementation.

- Provide subject matter expert support for readiness assessments and periodic program and project **external audits**.
- Support regulatory **oversight inspections** and reviews.
- Plan and perform **supplier audits** for inclusion on approved supplier lists.
- American Society for Quality **certified quality auditors** and NQA-1 Certified Lead Auditors.

Quality Assurance

The NSA Quality Assurance Program is compliant with the requirements of ISO 9001-2000, NQA-1, 10CFR50 Appendix B, CSN 286.2, and 10CFR830. NSA strives for continuous improvement in the quality of its products and services. NSA accepts 10CFR21 reporting requirements.

Corporate Experience

Nuclear Safety Associates has provided readiness assurance, audits, and inspections support to numerous clients, including:

- *Los Alamos National Lab • Bruce Power • Nuclear Fuel Services*
- *United States Enrichment Corporation • Y-12 Plant*
- *Rocky Flats Environmental Technology Site*
- *Lawrence Livermore National Lab*



nuclearassociates.com

How Can We Help?

How can we help you?

At Nuclear Safety Associates, complete customer satisfaction is our goal. We can provide our highly trained experts for staff augmentation, or we can fully execute projects and deliver products on time and under budget – the choice is yours. Regardless, our staff will produce top quality deliverables that will exceed your goals and needs.

Give us a call today! 423.610.0249



Change Control Facility Design Documents SAFETY BASIS
Integrated Safety Management Readiness Assessments