



**TECHSOURCE**

A  Salas O'Brien Company

# Nuclear Materials Control & Accountability

Nuclear Materials Control and Accountability (NMC&A) consists of highly integrated and complex processes that, when not fully understood, consistently integrated, or properly implemented, create an opportunity for unintended intrusions, compliance failures, mission disruption, and even shutdown.

## Working Smarter is the Key

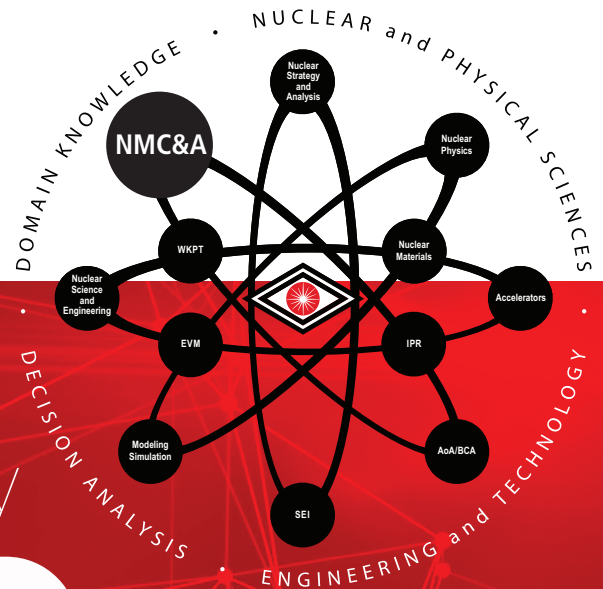
As the Nuclear Security Enterprise (Enterprise) undergoes modernization, it is crucial everyone works smarter, especially those responsible for NMC&A. NMC&A managers and staff must focus on driving efficiencies by streamlining existing complex processes, so they comply with all applicable regulations while ensuring efficient nuclear operations. This is not an easy task made even harder by the technical gaps created by decades of attrition of experienced NMC&A staff throughout the Enterprise. This is where TechSource's highly experienced NMC&A experts can help other organizations meet mission requirements in a safe, timely, and compliant fashion.

Our in-house NMC&A experts have decades of experience providing programmatic support, managing process, and providing hands-on Safeguards, Security, and Regulatory Compliance support. Our senior level experts possess a broad and deep working knowledge and thorough understanding of nuclear regulatory practices, operations, and emerging technologies. Our NMC&A experts can be engaged quickly to seamlessly fill all levels of technical, scientific, and programmatic gaps in your organization from decommissioning to new construction.

## Our Expertise is Field Tested

Our experts' knowledge is routinely leveraged by commercial and government clients including the URENCO Enrichment Facility in Eunice, NM. URENCO, the only new build nuclear in the last 40 years, engaged our experts to develop, train, and qualify their safeguards personnel. At the time, the facility was under NRC regulation. There was no established guidance on how to train personnel – just a mandate that all personnel had to be trained and qualified. TechSource NMC&A experts came in and:

- Prepared URENCO site and staff for the NRC Operational Readiness Review to receive authorization to receive nuclear material. Upon completion, the NRC noted that URENCO had in place one of the best safeguards training programs they had ever seen from documentation to demonstration
- Developed and obtained approval for Training Approval Programs (TAP) for ORNL and Y-12
- Authored and argued the MC&A Plan for the Mixed Oxide Facility, responding to 176 RAIs
- Trained staff in all aspects of Safeguards as an Independent Instructor and Curriculum Developer at the National Training Center in Albuquerque, NM



## TechSource Provides Critical Skills for Every Facet of an NMC&A Program

TechSource experts possess the technical experience, garnered from decades of hands-on work within the Enterprise, required to develop practical and implementable NMC&A programs based on new technologies, practices, and operations. Our experts are adept at streamlining and modernizing existing and legacy programs using proven practices which thoroughly evaluate, compare current regulation, and implement changes and approaches reflective of latest technologies and practices.

For each engagement we leverage our extensive regulatory knowledge and highly specialized expertise to ensure that implementation meets regulatory intent by:

- Developing training programs for nuclear materials facility and operations
- Training and qualifying staff for those facilities and operations
- Applying unique statistical and engineering approaches to maximize operations and safeguards
- Providing proven expertise in implementing NMC&A Accounting systems including the DOE sponsored LANMAS system
- Supplying Subject Matter Experts (SMEs) with the requisite experience to draft, implement, and provide training on all relevant NMC&A plans, policies, and procedures

## Corrective Action Programs and Performance Assessment

The best way to reduce the frequency and number of inspections and audits is to self-perform in a real, demonstrable, and transparent way.

Implementing Corrective Action Programs (CAPs) ensures your organization is operating and learning, rewarding observations, implementing corrective behaviors, and reporting issues.

Creating top-to-bottom programs to evaluate and ensure implementation of ISMS ensures consistency of processes, technology, and people which in turn helps you protect and manage your organization's assets through effective risk management.

TechSource NMC&A experts have the expertise to direct, oversee, and embed themselves within your operations resulting in increased self-reporting, a targeted bridging of technical gaps, and overall performance improvement.

*Implementing CAPs and getting the site program approved by the Regulator is a positive step in your team's self-sufficiency and ensures your organization is operating at top level and with the right amount of regulatory interaction and involvement.*

## Our Bench

Our experts take a 360° viewpoint when dealing with site operations and other non-NMC&A organizations. Our holistic approach provides organizations the tools and understanding they need to seamlessly implement new regulations and requirements while maintaining optimal performance.

Our SMEs can teach your staff how to use all the resources available to implement the most efficient operations.

When our reach-back experts leave your program, your staff is well prepared to successfully address and comply with on-going and future NMC&A requirements.

## We're the Go-To Experts for Experts

### Science & Engineering Expertise

TechSource is a leading high-technology science and engineering small business offering recognized expertise in nuclear and physical sciences, engineering and technology, domain knowledge, and decision analysis.

### Unparalleled Expertise

TechSource's talented and innovative 500-plus cohort is composed of experts, most with 35 years or more of hands-on experience.

### Complex Management Solutions

TechSource offers policy to test bench technical and management services in coordination with point-of-interest expertise to organizations responsible

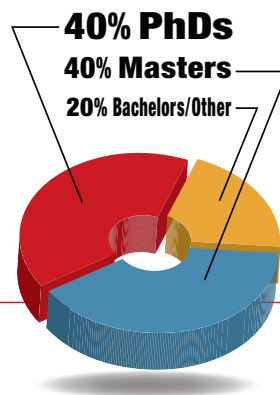
for developing, implementing, operating, and managing high-technology programs nationwide.

### The World's Smartest Organizations Use TechSource

For over 20 years, TechSource has successfully supported a diverse and expanding client base, including U.S. federal agencies, the national laboratories, the Navajo Nation, universities, and commercial entities focused on solving some of the most complex issues facing the United States today.

### Recognized Qualified Expert

TechSource is recognized as an independent, qualified expert whose advice and products uniquely and effectively bridge technical and programmatic requirements.



## Operations is Dependent on a Top-Down Well Educated and Prepared Staff

Teaching why safeguards matter and then demonstrating what our clients gain from implementing effective safeguards is critical in the smooth integration of new or updated approaches.



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