

FUEL CYCLE EXPERTS

World-class consulting services for every step of the nuclear fuel cycle

For over 50 years, NAC International (NAC) has delivered dependable, highly-specialized nuclear industry insights, including price forecasts, market trends, fuel performance evaluations, fuel facility feasibility and marketing, fuel procurement, advanced fuel design reviews, fabrication oversight, nuclear quality programs, nuclear material safeguards, and spent fuel management and disposal strategies to nuclear utilities, suppliers, governments, agencies, and the investment and financial communities.

NAC's internationally recognized team of nuclear industry experts artfully combines worldwide industrial experience with global reach, detailed market analysis, and deep technical expertise.

"For decades, NAC's experienced consulting team has supported an entire industry on a truly independent basis."

NAC's experts have successfully supported customers' business operations and strategy, policy development, and investment engagements. All consulting services are informed by the team's extensive industry background, technical experience and NAC's exclusive data-driven market research.

NAC's consulting experts are specialized in all segments of the nuclear fuel industry. Our international and up-to-date perspectives are unbiased and provide excellent outcomes for the most demanding consulting assignments in the nuclear sector.

FUEL CYCLE MARKET & DATA ANALYSIS

NAC's fuel cycle services and products provide data-driven analyses and best available market information.

- Customized consulting concerning commercial and technical areas of the nuclear fuel cycle
 - Contract portfolio analysis
 - Supplier marketing strategies, proposal development, and contract negotiation

- Buyer purchasing strategies, bid request and evaluation, and contract negotiation
- New capacity feasibility studies
- Price projections
- Trade policy and mitigation strategies
- Counterparty risk and mitigation strategies
- Contract dispute resolution

- Fuel-Trac™ nuclear fuel cycle supply/demand/contracting data

- Nuclear Fuel Market Issues & Insights
- Commercial nuclear fuel training

NUCLEAR SAFEGUARDS

NAC's nuclear safeguards experts support governments and operators with implementing robust, accurate, and secure safeguard initiatives, including with the design of customized material control and accountancy (MC&A) systems.

- NAC Reporter nuclear material accounting software
 - State level
 - Facility level
- Safeguards and MC&A consulting
 - Design, setup and implementation of MC&A software



NAC experts represent more than **1000 YEARS** of combined nuclear industry experience, across the U.S. and around the world.

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NAC experts provide leadership and support to the World Nuclear Fuel Market, the premier international trade organization for nuclear fuel materials, organized by NAC International in 1974.



- Obligations reporting
- Feasibility & implementation of safeguards initiatives
- Import/export controls
- Safeguards and MC&A training

FUEL MANAGEMENT & TECHNICAL CONSULTING

NAC's fuel experts provide customers with valuable technical advice and analyses to improve fuel product designs, in-reactor performance and fuel cycle economics.

- Fuel fabrication procurement strategy and support
 - Technology transfer
 - Procurement specifications
 - Bid evaluation and contract negotiation
- Nuclear fuel and core component design review and transition analysis
- Fuel department organizational assessment
- Self-perform core design/safety analysis assessment and strategy
- 24-month cycle length evaluation
- Economic and technical impacts of Accident Tolerant Fuels
- Fuel and core component-related reactor operations support
- Reactor Coolant System (RCS) radiochemistry analysis and fuel failure cause evaluation
- Performance-based manufacturing oversight and issue resolution
- Fuel and core-related training

REGULATORY FRAMEWORK DEVELOPMENT

NAC's regulatory experts support State regulators in developing and improving the regulatory framework for nuclear activities.

- New and improved regulations
- Development of regulatory guides, application forms, and regulatory staff procedures
- License application review

NUCLEAR QUALITY ASSURANCE SERVICES

NAC's NQA-1 certified Lead Auditors provide support for new and existing safety-related suppliers.

- QA program assessment and procedure development
- Performance of QA program audits and Quality Surveillance (QS)
- Training personnel in NQA-1 and performance-based/graded approaches
- Gap assessment of commercial vs. safety-related QA programs

GOVERNMENT POLICY CONSULTING

NAC International is a trusted independent advisor to national governments and government agencies around the world.

- Assisting governments in analyses related to the storage and transport of used fuel and wastes
- Evaluating policies with data and analyses to judge impacts on the nuclear fuel cycle and end-users
- Comparative analyses of repository costs and approaches
- Nuclear Nonproliferation, Safeguards & Security support
- Assessing strategies for dispositioning surplus inventories

NAC experts led the U.S. Department of Energy's implementation of the **Global Threat Reduction Initiative**, which identified proliferable materials in numerous countries and led to their safe packaging, handling and retrieval.



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