

# FUEL CYCLE EXPERTS

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

For over 50 years, NAC International has delivered dependable, highly-specialized nuclear industry insights, including complex pricing trends, market forecasts, fuel performance evaluations, advanced fuel design reviews, and technical and quality oversight, 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

- 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

## MATERIALS CONTROL & ACCOUNTABILITY (MC&A)

NAC International's MC&A services and products support government and company materials control management, including with the design of customized accountancy systems.

- Nuclear Accounting & Compliance (NAC) Reporter nuclear material accounting software
  - State level
  - Facility level
- MC&A consulting
  - Design, setup and implementation of MC&A software
  - Obligations reporting
  - Assisting in determining feasibility & implementation of safeguards initiatives
  - Import/export controls



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 help lead World Nuclear Fuel Market, the premier international trade organization for nuclear fuel materials, organized by NAC International in 1974.**



## **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
  - Contract review for transfer of key fuel/plant data
  - Procurement specification development
  - Bid evaluation and contract negotiation (technical/commercial service)
- Nuclear fuel and core component design review and transition analysis
  - Lead test assembly program strategy and implementation
  - Compatibility (reactor internals, fuel vault, wet racks, handling equipment, dry storage)
  - Mixed core evaluation
- Fuel department organizational assessment
  - Organizational Effectiveness review program development and support
  - Peer review program development and support
  - Organizational structure and staffing assessment
- Self-perform core design/safety analysis assessment and strategy
- Alternate fuel 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 and procedures

## **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 to maximize government returns and minimize market impacts

**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.



Kanadevia Group

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