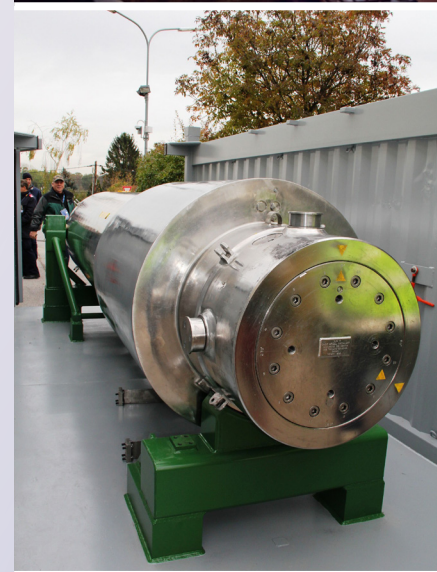


Small business resource providing exceptional nuclear professional services combined with state-of-the-art radioactive material and fuel storage and transport technologies and systems.

Sigma-NAC Nuclear Solutions, LLC (SNNS) combines the strength of two trusted providers in the nuclear industry—Sigma Science, Inc. and NAC International Inc. Together, we provide an integrated suite of solutions in waste analysis; problematic waste streams; advanced reactor fuels; and packaging, logistics, transport, and disposal for spent nuclear fuel (SNF) and radioactive waste.

For over 25 years, Sigma Science has been providing nuclear professional expertise and technical solutions for some of the most difficult nuclear materials and waste challenges for both federal and commercial clients. Sigma has a proven track record of providing nuclear engineering; nuclear facility and transportation safety basis analysis; radiological shielding and criticality analysis and characterization; problematic high hazard nuclear waste and fuels analysis, treatment, characterization, packaging, and transportation; nuclear safeguards and security; and environmental compliance.

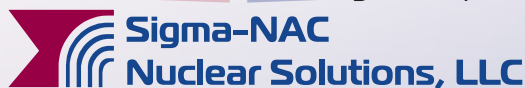
For more than 50 years, NAC has been a leading provider of nuclear fuel cycle technology and consulting solutions. Founded in 1968 as Nuclear Assurance Corporation, NAC was recognized early on for its pioneering nuclear market information services and later established a highly successful SNF storage and transport cask design and licensing business worldwide. NAC now is a global provider of fuel cycle consulting services and patented, unique technology solutions, including engineering, licensing, and supplying casks and canister solutions for spent fuel and high-level waste.



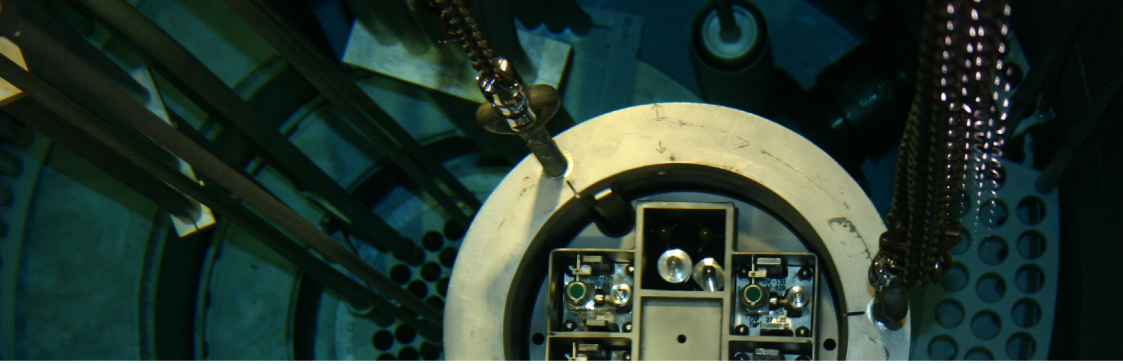
Provides technical expertise in nuclear engineering, safety basis analysis, criticality safety evaluations, problematic high hazard waste solutions, safeguards and security, and nuclear facility operations.



Applies technical expertise to technologies including designing, engineering, licensing, operating, and maintaining nuclear spent fuel management systems for storage, transport, and disposal.



- **Combines** the full breadth of nuclear expertise from Sigma Science and NAC International
- **Delivers** the strength of two well established nuclear industry trusted and respected service providers
- **Offers** NAC’s technologies, casks, containers, and transportation systems through a small business



SBA-Approved Mentor-Protégé Agreement

• Approved April 2022

CAGE Code: 9CR18

SAM ID: CJWYUZH94HW9

Primary NAICS Code:

• **562910** Remediation Services

Secondary NAICS Codes:

• **541712** Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)

• **561210** Facilities Support Services

• **541330** Engineering Services

• **562112** Hazardous Waste Collection

• **562119** Other Waste Collection

• **562211** Hazardous Waste Treatment and Disposal

Areas of Expertise

SNNS offers the following services and expertise:

- High hazard nuclear waste analysis, characterization, and treatment
- Problematic waste stream analysis and solutions
- High-level/greater-than-Class-C/transuranic/mixed low level waste packaging, transportation, and storage
- SNF technologies including casks, containers, and storage systems
- Waste disposal brokerage and contract management

SNNS supports federal and commercial clients including:

- National Nuclear Security Administration
- DOE Office of Environmental Management
- DOE Office of Nuclear Energy
- DOE Office of Science
- Department of Defense
- Army Corps of Engineers
- Commercial Nuclear Utilities including Arizona Public Service, Duke Power, Constellation, and others

Experience

SNNS combines the past performance of both Sigma and NAC, including:

- Design and construction of the High-Level Waste Dry Storage System at West Valley
- Nuclear fuel development, SNF processing, nuclear facility operations, nuclear engineering analysis, safety basis analysis, and evaluation of alternative uses of nuclear fuels at Oak Ridge National Laboratory
- Independent assessments, criticality safety evaluations, and packaging/transportation analysis for the NAC HALEU Project
- Criticality safety engineering and reviews of waste/SNF package fissile material contents
- Completing over 3,700 shipments of SNF and nuclear waste worldwide in support of DOE and other government and commercial programs

“The vendor [NAC] successfully managed and communicated all information of the transfer between all stakeholders, despite the compressed schedule. At no point were there unanswered questions and management of the contract was exceptional.”

Annie Howard, Branch Chief, Denver Acquisition and Grants Branch (CPARS comments, unloading of NAC-LWT packaging at USGS TRIGA Reactor Facility, Denver, CO)

“Sigma’s work excels in Quality, Schedule, Cost Control, and Management. The Sigma team is one of the most professional teams that I have worked with.”

Robert Toro, DOE-EM (CPARS comments, LANL Area G DSA and TSRs)

SNNS makes a wide range of transportation packaging and logistics available through a small business subcontractor, including:

- Type B (NAC-LWT, OPTIMUS®, Multi-purpose Canister and Rail Cask Systems)
- Type A packaging
- Gondola and ABC railcars
- IP-1 intermodal, lidded, and custom soft-sided packaging



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