



Services for DOE and NNSA



Safe, innovative, cost-effective solutions worldwide

complex world | CLEAR SOLUTIONS™

Leveraging and integrating capabilities for customer success

For more than 30 years, Tetra Tech has provided safe, innovative, and cost-effective solutions for the U.S. Department of Energy (DOE) and the National Nuclear Security Administration (NNSA). We leverage and integrate extensive corporate capabilities with diverse cross-program expertise to deliver maximum value to our customers. Tetra Tech is at the forefront of delivering high-quality solutions to address energy, water, and human resources challenges for DOE, NNSA, and other customers. The effective development and management of these resources will enhance the quality of life in our nation and worldwide.



We have supported nuclear launch safety for NASA's Pioneer, Voyager, Galileo, Ulysses, Cassini, Mars Pathfinder, Mars Exploration Rover, Pluto New Horizons, and Mars Science Laboratory.

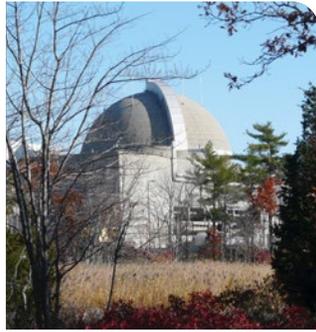
Capabilities

Planning

Tetra Tech provides planning and management services, including safety basis documentation, hazard evaluation, and regulatory documents for DOE and NNSA programs. We have supported major programs at the DOE Portsmouth and Paducah project office; DOE/NNSA National Laboratories at Oak Ridge, Los Alamos, Brookhaven National, Lawrence Livermore, and Pacific Northwest; the NNSA Office of Nonproliferation and International Security; and the Savannah River Nuclear Solutions and the Savannah River National Laboratory.

Environmental Design

Tetra Tech has prepared more than 20,000 designs over the past 20 years, including \$50 million in designs annually for DOE facilities. Our expertise includes demolition and deconstruction (D&D) design, drawings, specifications, and reactor building D&D alternatives; engineering and environmental services; engineering evaluation and cost analysis; contaminant transport modeling and groundwater remedies; wastewater treatment facilities; landfill expansions; workforce transition; and Nuclear Regulatory Commission application and licensing support.



Tetra Tech has supported closure of **1,040** DOE facilities

International Safeguards and Security Services

Tetra Tech provides physical protection systems and technical and programmatic support worldwide. We have designed and installed more than 500 radiation portal monitors in more than 25 countries, including the Port of Rotterdam.

Nuclear Materials and Security Services

Tetra Tech is providing project management and design support for the NNSA UPF project at the Y-12 National Security Complex in Oak Ridge, Tennessee, including DOE critical decision strategy planning; management assessment of safety in design, piping, and instrumentation design; and design analysis.

Engineering Studies

Tetra Tech provides expert support, including studies, risk assessments, and modeling. Our experience includes providing DOE NE-75 support for missions since 1988, including NEPA; launch meteorological analysis and research; radiation transport and dispersal; biological and environmental risk methodology; national and international interaction for space nuclear power safety; launch risk assessments; and technical evaluations for testing, ground-handling operations, contingency planning, and applicable regulations.

Design and Construction

Tetra Tech has performed \$10 billion of work in vertical, horizontal, remedial, industrial, and shoreline construction. Our teams have provided pre-conceptual design and technical support for construction of the Highly Enriched Uranium and Materials Facility, including 17 years of materials management support and 8 years of safeguards and security support. Tetra Tech's experience includes chemical engineering staff augmentation services including piping and instrumentation design, design analysis and calculations, flow diagrams, data sheets, technical specifications, interface control tabulations development, hazard evaluation support, equipment arrangements, and process equipment costing.

Remediation and Demolition and Deconstruction

Tetra Tech has supported closure of 1,040 DOE facilities. We have provided engineering and close design, site coordination, surveying, environmental compliance, waste management, safety basis documentation, and traffic control services. Tetra Tech has also led efforts to identify the source of hexavalent chromium and handling and proper disposal via interim measures and innovative in situ treatment processes. Our teams have characterized hydrology; prioritized waste sites for cleanup and remediation alternatives; and provided excavation, removal, and disposal of radioactive materials.

Nuclear Nonproliferation

Tetra Tech has extensive experience with security, including domestic and international safeguards. Our teams have supported Second Line of Defense Program missions to deter, detect, and interdict illicit global trafficking of nuclear and other radioactive materials; international safeguards; and DOE complex-wide nuclear materials management support. Our services include nuclear materials management, facility deinventory, safeguards, security, and material control and accountability.



TETRA TECH

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Tetra Tech's innovative, sustainable solutions help our clients address their water, environment, infrastructure, resource management, energy, and international development challenges. We are proud to be home to leading technical experts in every sector and to use that expertise throughout the project life cycle. Our commitment to safety is ingrained in our culture and at the forefront of every project. We combine the resources of a global, multibillion dollar company with local, client-focused delivery. [tetratech.com](https://www.tetratech.com)