# GAO Highlights

Highlights of GAO-25-107636, a report to congressional committees

## Why GAO Did This Study

Decades of nuclear weapons production and research generated millions of gallons of hazardous and radioactive waste. NNSA's ongoing maintenance and modernization activities of the nuclear weapons stockpile are expected to generate a considerable volume of additional waste. However, a Senate committee report questioned whether there are sufficient facilities to address the waste generated by these activities, and whether such facilities are included in current plans and budgets.

NNSA was required by statute to develop a comprehensive strategy for treating, storing, and disposing of the waste generated by these activities. In July 2022, NNSA created an office to manage the planning and execution of waste operations and disposition activities for all its missions.

A Senate committee report accompanying a bill for the National Defense Authorization Act for Fiscal Year 2022 includes a provision for GAO to assess NNSA's strategy. This report examines the extent to which NNSA's strategy is comprehensive and addresses statutory requirements. GAO reviewed documents and data from DOE and interviewed department officials.

#### What GAO Recommends

GAO is recommending that NNSA include the key components of a comprehensive strategic plan and fully address statutory requirements in its required update to congressional committees with the President's budget request for fiscal year 2027.

NNSA concurred with this recommendation.

View GAO-25-107636. For more information, contact Nathan Anderson at (202) 512-3841 or AndersonN@gao.gov.

## NUCLEAR WASTE CLEANUP

## NNSA Should Improve Its Strategy for Managing Anticipated Waste from Defense Activities

## What GAO Found

The National Nuclear Security Administration's (NNSA)—a separately organized agency within the Department of Energy (DOE)—February 2024 strategy for treating, storing, and disposing of the anticipated increase in nuclear waste from stockpile maintenance and modernization activities is not comprehensive and does not fully address all statutory requirements. When comparing the strategy to the seven key components of a comprehensive strategic plan, GAO found that the strategy substantially meets one key component (see table).

Analysis of How the National Nuclear Security Administration's Strategy Follows Key Components of a Comprehensive Strategic Plan

Key component	GAO assessment
Mission statement	Substantially meets
Problem definition, scope, and methodology	Minimally meets
Goals and objectives	Minimally meets
Activities, milestones, and performance measures	Minimally meets
Resources and investments	Partially meets
Organizational roles, responsibilities, and coordination	Partially meets
Key external factors	Partially meets

Source: GAO analysis of Department of Energy information and GAO-13-201. | GAO-25-107636

NNSA's strategy includes a mission statement, but the other key components of a comprehensive strategic plan are partially or minimally addressed. In addition, the strategy does not fully address statutory requirements. For example:

- Generated waste amounts. Though the strategy's scope is a 25-year period, the 25-year outlook does not include anticipated waste from important upcoming activities, such as reestablishing plutonium pit production capability or surplus plutonium disposition.
- **Coordination with the Office of Environmental Management (EM)**. The strategy recommends establishing formal coordination mechanisms with EM, which has responsibilities for waste disposal, but it does not define formal coordination or describe NNSA's plans to create this mechanism.
- **Cost estimates.** NNSA estimated costs of about \$2.5 billion over the next 5 years, but the estimate may not be reasonable, in part because NNSA used inconsistent and unclear information and did not perform risk and uncertainty analyses.
- **Disposal options.** The strategy did not identify disposal facilities, including any needed modifications. It states that other locations that could be used to dispose of high-risk waste should be identified or developed.

NNSA officials stated that they consider their strategy as a snapshot-in-time report that summarizes the NNSA sites' plans, rather than a plan that sites will follow in the future. Nevertheless, NNSA should include all the key components of a comprehensive strategy and fully address statutory requirements in its next strategy update. Doing so would better position NNSA to increase the probability of the strategy's success and avoid the challenges that have affected efforts to dispose of waste generated by previous atomic weapons production activities.