

# STOCKPILE SURVEILLANCE AND ASSESSMENT

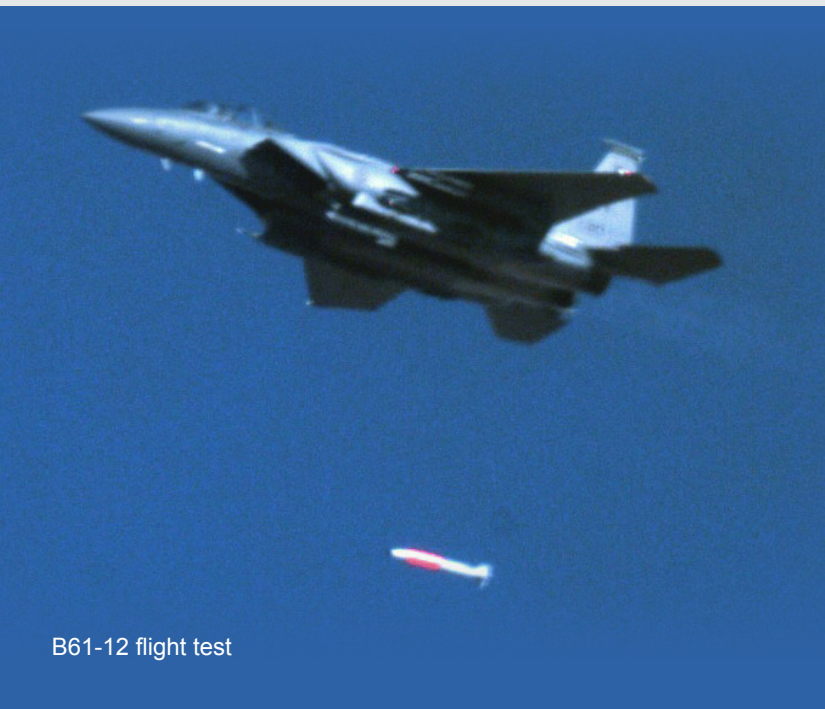
**NNSA ensures the U.S. nuclear weapons stockpile remains safe, secure, and effective without the use of nuclear explosive testing through surveillance and assessment.**

## OVERVIEW

When the system is in the stockpile, it is constantly surveilled and the results of surveillance is reported annually by each lab director. Surveillance includes laboratory testing of materials, components, sub-systems, and systems. Flight tests are also done using Joint Test Assemblies that remove the nuclear package and replace it with telemetry systems.

## ANNUAL ASSESSMENT

NNSA conducts extensive warhead evaluations through detailed assessments using analysis and simulations underpinned by previous underground nuclear test data, surveillance, and modern experiments. These data are a key component in an annual report to the President on the current state of the stockpile. For the last 25 years, the three NNSA Laboratory Directors have certified that the stockpile remains safe, secure, and effective, and that additional underground nuclear testing is not required at this time.



B61-12 flight test



B61-11 Surveillance test