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## **Programs**



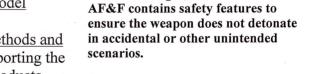
## Nuclear Weapons

Sandia's primary mission is ensuring that the U.S. nuclear weapons stockpile, and the expertise that ensures the stockpile, is safe, secure, reliable, affordable, and fully capable of supporting our nation's deterrence policy indefinitely. This means that our nuclear weapons:

- Are not vulnerable
- Are protected
- Are stored
- If needed, will work

## **Initiatives**

- Maintenance and Refurbishment of the Enduring Stockpile
- Assuring National Capabilities in Radiation-Hardened Microelectronics
- o Sustaining Critical Progress in <u>Model</u> <u>Validation</u>
- o Improving Methods and Practices Supporting the Delivery of Products



- Sustaining Momentum on Advanced Design and Production Technologies (ADAPT)
- o Pulsed Power Technology for Defense Applications
- <u>Distributed Information Systems</u> for the Nuclear Weapons Complex

For more information about the Nuclear Weapons Program contact the Webmaster.

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The MC2912 is the Arming, Fuzing,

and Firing System (AF&F) that was designed by Sandia National

Laboratories and is employed on the

W76/Mk4 is carried on the Trident I

C4 and Trident II D5 missiles and on the U.S. Navy's SSBN Trident

Submarines — the most powerful and

survivable ballistic missile submarine

in the world. The AF&F design

integrates Navy arming and fuzing sub-systems with the DOE firing sub-

system to achieve high performance,

minimum weight, and low cost. The

W76/Mk4 nuclear warhead. The