## FINESS

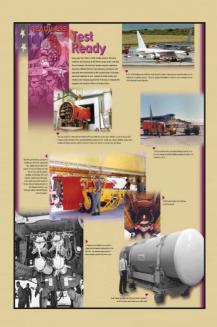
This exhibit traces the events leading up to the U.S. Readiness Program and highlights Sandia's role in the effort to keep the U.S. prepared to advance nuclear research and testing.

To view a poster, click on any of the icons below. To magnify an area within a poster, use the magnifying tool on the Acrobat Reader tool bar and drag a box over the area.



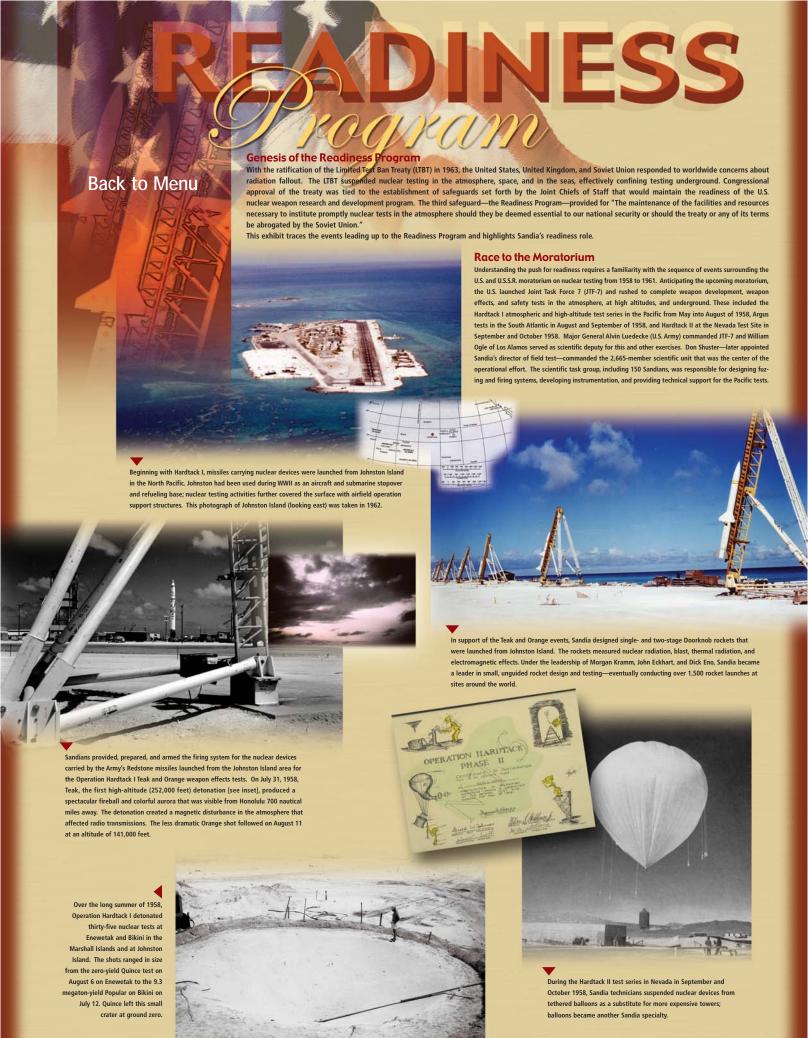


















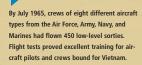




Staff formed Joint Task Force Two (JTF-2) under the leadership of Major General George Brown (U.S. Air Force) to test and evaluate the low-altitude penetration capabilities of aircraft weapons systems and their defense. JTF-2 was headquartered at Sandia Base. At General Brown's request and with AEC approval, Sandia Laboratories supported JTF-2. Don Shuster led Sandia's effort, which was centered in John Eckhart's systems evaluation group. Tom Sellers supervised development of instrumentation pods and monitoring equipment; Jim DeMontmollin managed test planning; John J. Miller handled site engineering and maintenance.



The Tonopah Test Range crew laid out a zigzag course for the aircraft to follow over terrain ranging from flat to mountainous. Using an Army CH 3C helicopter in May 1965, test range maintenance crews delivered orange barrels to mark the flight path for JTF-2 flights.





A Navy A-6 aircraft completing a low-level test drop.

Sandia built a flight simulator by projecting film of test flights on a 160° screen. From the mock cockpit in the center, pilots reacted to situations presented on the screen. Sandia found that success depended less on which delivery system was used than on the training and skill of the delivery crew.

## **Readiness Program ends**

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The Readiness Program was severely curtailed in 1974. Funding for the program evaporated as political concerns made it evident that atmospheric nuclear testing would not resume. Finally, with the loss of Air Force support and President Ford's deletion of the word "promptly" from the third safeguard, the Readiness Program ended in 1975.

Events leading up to the 1963 Limited Test Ban Treaty and the establishment of the Readiness Program demonstrate how Sandia's staff and expertise were mobilized to support the nation's nuclear and non-nuclear weapon research and development programs in changing political circumstances. Sandia brought its unique capabilities to many aspects of the program, including test vehicle and weapon design, scientific research, rocketry, modifications to the NC-135 aircraft, and development of instrumentation for low-level testing. Sandia's role in the Readiness Program serves as a straightforward example of how the lab responds to urgent national priorities—an endeavor that continues today.

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy under Contract DE-AC04-94AL85000.

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A Sandia-developed instrument pod was loaded on an A-4C aircraft for low-level testing in 1967. Although flight tests were moved from Tonopah to rugged terrain in the Ozarks in 1966 and to other locations in 1967 and 1968, Sandians continued to maintain and operate the instrumentation. Original task force plans called for continued testing into the 1970s, but Vietnam provided a more realistic testing ground.

