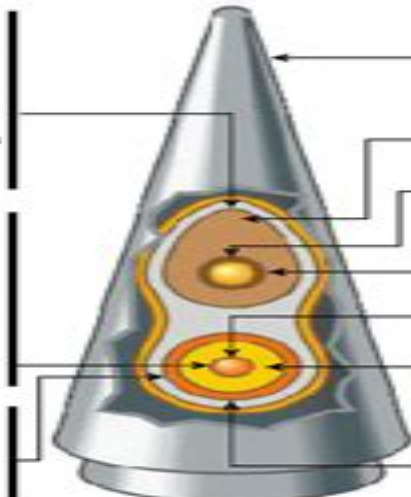


W-88 warhead

1. A fission bomb, the "primary," creates the heat and pressure that detonate the second device. The egg shape, a crucial advance in miniaturization, reduces diameter for better fit into the nose cone.

2. A spherical fusion bomb, the "secondary," is the most powerful. Huge amounts of X-rays from the first explosion compress and heat the fusion fuel in the secondary capsule, and it explodes.

3. A layer of enriched uranium around this device fissions on detonation, creating a third blast.



Re-entry vehicle
Protects weapons from heat of re-entering atmosphere after launch into space.

High explosives
Trigger atomic bomb.

Tritium
An isotope of hydrogen.

Plutonium 239
Fission fuel

Uranium 235
The "spark plug."

Lithium deuteride
Converted by explosion to tritium, an isotope of hydrogen; hence "hydrogen bomb."

Uranium 235
Creates a third explosion

(c) 1999 San Jose Mercury News, by Reid Brown, Karl Kahler, and Dan Stober

Published Warhead Drawings

These drawings and captions were printed in 1999 in conjunction with the Wen Ho Lee case. All three show a spherical secondary. The one below, included in the Cox Committee Report, is a reprint from a Gerald Parshall article in US News & World Report, July 31, 1995. It shows the W-87 MX missile warhead, and has the first public depiction of a spherical secondary. The other two drawings show the W-88 Trident missile warhead, also with a spherical secondary, but with it located in the fat end, not the narrow end, of the cone. The W-88 drawings show an egg-shaped primary, in the narrow end of the cone. The other appeared on the front page of the New York Times, September 7, 1999, with an article by William J. Broad.

Some secret specifications of the W-88, an American miniature hydrogen bomb, that were found in a Chinese document.

SHAPE OF ATOMIC BOMB TRIGGER
Described as not spherical

SHAPE OF HYDROGEN BOMB FUEL
Described as spherical



BOMB PLACEMENT
Atomic bomb trigger is placed above the hydrogen bomb fuel

(c) 1999 New York Times, by Mikka Grondahl

A modern thermonuclear warhead

This W87 thermonuclear warhead is launched on an MX intercontinental missile. Packaged into a multiple independently targeted re-entry vehicle (MIRV, shown below), it splits off from the missile to strike its target.



MIRV length: 5.7 feet MIRV base diameter: 1.8 feet
Explosive power: 300,000 tons of TNT

Explosion process: The compression of plutonium with a chemical explosive (above, left) starts a fission explosion that, in turn, is boosted by the fusion of DT gas. X-rays then compress the second component, causing a larger fission/fusion.

Both the Mercury News drawing and the New York Times drawing show the atomic bomb trigger in the narrow end of the cone, not the fat end. This arrangement of the W-88 is consistent with two reported facts: 1) that the primary uses a more dense, but less stable (non-insensitive) high explosive to make it more compact, and 2) that the warhead has an unusually aft center of mass which causes flight stability problems that necessitate dead weight ballast in the nose of the re-entry cone.

In order for the W-88 secondary to carry its reported half megaton of explosive power, it would need to be too large to fit in the narrow end, assuming that it is, in fact, spherical. Since the secondary is vastly heavier than the primary, its location aft shifts the center of mass. Cramping the primary into the narrow end requires the more dense explosive.

Analysis by
Howard Morland,
January 15, 2000

(c) 1995 US News & World Report, by Timothy Ito, Robert Kemp, and Richard Gage

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Camilla Rothe



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