

## Read PDF Effects Of Nuclear Earth Penetrator And Other Weapons

# Effects Of Nuclear Earth Penetrator And Other Weapons

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### **Effects Of Nuclear Earth Penetrator**

To help clarify this issue, the Congress, in P.L. 107-314, directed the Secretary of Defense to request from the NRC a study of the

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anticipated health and environmental effects of nuclear earth-penetrators and other weapons and the effect of both conventional and nuclear weapons against the storage of biological and chemical weapons.

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## Read PDF Effects Of Nuclear Earth Penetrator And Other Weapons

Committee on the Effects of Nuclear Earth-Penetrator and Other Weapons. Division on Engineering and Physical Sciences.  
NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES

### **Front Matter | Effects of Nuclear Earth-Penetrator and ...**

Underground facilities are used extensively by many nations to conceal and protect strategic military functions and weapons stockpiles. Because of their depth

### **NAE Website - Effects of Nuclear Earth-Penetrator and ...**

The anticipated short-term and long-term effects of the use by the United States of a nuclear earth-penetrator weapon on the target area, including the effects on civilian populations in proximity to the target area at the time of or after such use and the effects on the United States military personnel who after such use carry out operations or battle damage assessments in the target area.

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## **1 Introduction | Effects of Nuclear Earth-Penetrator and**

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Earth-penetrator weapons. Effectiveness of nuclear weapons against hard and deeply buried targets. Fallout and tools for calculating effects of release of hazardous materials. Human and environmental effects. Conventional weapons. Uncertainty in estimates of effects. Conclusions. Appendixes. Summary.

## **NRC. Effects of nuclear earth-penetrator and other weapons ...**

Nuclear explosions produce air-blast effects similar to those produced by conventional explosives. The shock wave can directly injure humans by rupturing eardrums or lungs or by hurling people at high speed, but most casualties occur because of collapsing structures and flying debris. Thermal radiation.

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### **Read "Effects of Nuclear Earth-Penetrator and Other ...**

Of the more than 3,000 EP tests conducted, there are currently 1,084 representative tests recorded in the SNL Earth Penetration Database. Complete characteristics of the penetrators—physical characteristics, impact velocity, impact angle, impact angle of attack, penetrator path length, penetrator rest angle,...

### **3 Earth-Penetrator Weapons | Effects of Nuclear Earth ...**

Robust Nuclear Earth Penetrator. In the Summer of 1991, a team of Los Alamos nuclear weapons scientists delivered a briefing to the Defense Science Board, provocatively titled "Potential Uses for ...

### **Robust Nuclear Earth Penetrator - GlobalSecurity.org**

Another school of thought on nuclear bunker busters is using a light penetrator to travel 15 to 30 meters through shielding, and detonate a nuclear charge there. Such an explosion would

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generate powerful shock waves, which would be transmitted very effectively through the solid material comprising the shielding (see "scabbing" above).

### **Nuclear bunker buster - Wikipedia**

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Even a nuclear-armed earth penetrator would be unlikely to destroy buried stockpiles of chemical or biological agents. 7 Despite the extremely high temperatures and radiation levels reached very near a nuclear explosion, to destroy or neutralize these agents the warhead would have to detonate very close to the actual containers—nearly inside the same underground room in which canisters of biological or chemical agents were stored.

### **Earth-Penetrating Weapons | Union of Concerned Scientists**

The Robust Nuclear Earth Penetrator (RNEP) was a nuclear weapon proposed by the Bush administration. It worked by burrowing a few meters into rock or concret... Skip navigation

### **The Robust Nuclear Earth Penetrator (RNEP)**

Earth penetrator weapons, often called “bunker busters,” burrow into the ground some tens of feet before detonating, greatly



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increasing their ability to destroy buried targets. The United States has several types of conventional earth penetrators. The current U.S. nuclear earth penetrator, the B61-11 bomb, cannot penetrate certain

### **Updated February 21, 2006**

[1] Exposure of the American Population to Radioactive Fallout from Nuclear Weapons Tests (National Academies Press, 2003). [2] Effects of Nuclear Earth-Penetrator and Other Weapons (National Academies Press, 2005), pp. 73-74. [3] A. Singh, "Castle Bravo," Physics 241, Stanford University, Winter 2015.

### **Nuclear Weapons Testing Aftermath**

U.S. nuclear earth penetrator capabilities, on the other hand, are also limited, and U.S. Government officials have made clear that current U.S. nuclear weapons cannot penetrate to the depths required to hold at risk the most important HDBTs. [4] Earth

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Penetrating Weapons Are Needed. This is a serious problem.

## **Why We Should Be Developing Nuclear Earth Penetrators**

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So earth penetrating nuclear warheads are designed to detonate only a dozen feet underground or a dozen feet within a concrete structure. While the penetration depth increases as the impact velocity is increased, the penetrator will destroy itself if it strikes the ground at too high a speed.

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