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Earth Penetrator And Other
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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

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Defense to request from the NRC a study of the 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.

Effects of Nuclear Earth-Penetrator

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and Other Weapons ...

Effects of Nuclear Earth-Penetrator and Other Weapons Underground facilities are used extensively by many nations to conceal and protect strategic military functions and weapons stockpiles. Because of their depth and hardened status, many of these strategic, deeply buried targets can only be destroyed by

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conventional or nuclear earth-penetrating weapons (EPWs).

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

Nuclear earth-penetrator weapons, such as those described as robust nuclear earth penetrator (RNEP) weapons, are controversial. Part of the controversy

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has been about whether a nuclear earth-penetrator could be designed to defeat a deeply buried hard target but not cause any collateral surface damage, such as that attributable to fallout.

Front Matter | Effects of Nuclear Earth-Penetrator and ...
EFFECTS ON HUMANS Blast. Nuclear

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explosions produce air-blast effects similar to those produced by conventional explosives. The shock wave... Thermal radiation. Unlike conventional explosions, a single nuclear explosion can generate an intense pulse of thermal... Initial radiation. Nuclear ...

Read "Effects of Nuclear Earth-

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Penetrator and Other ...

Nuclear earth-penetrator weapons (EPWs) with a depth of penetration of 3 meters capture most of the advantage associated with the coupling of ground shock. While additional depth of penetration increases ground-shock coupling, it also increases the uncertainty of EPW survival.

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

Because of the limitations on the penetration depth of penetrating weapons in the stockpile today, as well as those of the robust nuclear earth penetrator (RNEP) weapon currently under study, effects of their use would

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not be contained. 1 Depending on many variables, including weapon yield, proximity of the target to urban areas, distribution of the civilian population and warning time available for sheltering or evacuation, ambient wind profile, and other weather conditions, this study's ...

9 Conclusions | Effects of Nuclear

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Earth-Penetrator and ...

1 Front Matter; 2 Summary; 3 1
Introduction; 4 2 Hard and Deeply Buried
Targets; 5 3 Earth-Penetrator Weapons;
6 4 Effectiveness of Nuclear Weapons
Against Hard and Deeply Buried Targets;
7 5 Fallout and Tools for Calculating
Effects of Release of Hazardous
Materials; 8 6 Human and Environmental

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Effects; 9 7 Conventional Weapons; 10 8

...

Effects of nuclear earth-penetrator and other weapons ...

Introduction --Hard and deeply buried
targets --Earth penetrator weapons
--Effectiveness of nuclear weapons
against hard and deeply buried targets

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- Fallout and tools for calculating effects of release of hazardous materials
- Human and environmental effects
- Conventional weapons --Uncertainty in estimates of effects --Conclusions.

Effects of nuclear earth-penetrator and other weapons ...

The tasking for the Committee on the

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Effects of Nuclear Earth-Penetrator and Other Weapons, stated in Section 1033 of the Bob Stump National Defense Authorization Act for Fiscal Year 2003 (Public Law 107-314), is included in Chapter 1 of this report. The charge requests an examination of the anticipated health and environmental effects of (1) a nuclear earth-penetrator

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weapon that would enhance ground-shock coupling to destroy deep underground or other hard targets, (2) a nonpenetrating ...

Summary | Effects of Nuclear Earth-Penetrator and Other ...

A nuclear bunker buster, also known as an earth-penetrating weapon, is the

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nuclear equivalent of the conventional bunker buster. The non-nuclear component of the weapon is designed to penetrate soil, rock, or concrete to deliver a nuclear warhead to an underground target. These weapons would be used to destroy hardened, underground military bunkers or other below-ground facilities. An underground

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explosion releases a larger fraction of its energy into the ground, compared to a surface burst or a

Nuclear bunker buster - Wikipedia

Two findings of the 2005 National Academies' study Effects of Earth-Penetrator and other Weapons are key: "The yield required of a nuclear weapon

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to destroy a hard and deeply buried target is reduced by a factor of 15 to 25 by enhanced ground-shock coupling if the weapon is detonated a few meters below the surface.” And

Video Shows Earth-Penetrating Capability of B61-12 Nuclear ...
Robust Nuclear Earth Penetrator. In the

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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

- RNEP would produce tremendous radioactive fallout: A nuclear earth

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penetrator cannot penetrate deep enough to contain the nuclear fallout. Even the strongest casing will crush itself by the time it penetrates 10-30 feet into rock or concrete. For comparison, even a one-kiloton nuclear warhead (less Figure 1: Fallout from the use of

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The Robust Nuclear Earth Penetrator - BITS

Acute exposure to radiation may result in radiation sickness or death depending on the dosage, and frequently results in cancer. [2] Eye cataracts, hypertension, thyroid disease, and chronic liver disease have occurred in Japanese survivors of Hiroshima and Nagasaki

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with statistical significance. [2]

Nuclear Weapons Testing Aftermath

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earth penetrator and other weapons by committee on the effects of nuclear earth penetrator and other

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The Robust Nuclear Earth Penetrator (RNEP) was a nuclear weapon proposed by the Bush administration. It worked by

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burrowing a few meters into rock or concret...

The Robust Nuclear Earth Penetrator (RNEP) - YouTube

reduces airblast, radioactive fallout, and other effects on the earth's surface. To withstand the immense force of striking and penetrating the earth before

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detonating, an EPW needs a strong case and may require internal strengthening.
5 The current EPW, the B61-11, was

Order Code RS20834 Updated January 27, 2003 CRS Report for ...

Another school of thought on nuclear bunker busters is using a light penetrator to travel 15 to 30 meters

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through shielding, and detonate a nuclear charge there. Such an explosion would generate powerful shock waves, which would be transmitted very effectively through the solid material comprising the shielding (see "scabbing" above).

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