

Representative Edward J. Markey, Democrat of Massachusetts and a longtime critic of the Energy Department, plans to raise the issue on Wednesday in a news conference where several current and former Energy Department workers will describe security lapses.

In a letter to the energy secretary, Spencer Abraham, which Mr. Markey said he would send on Wednesday, he argues that suicidal terrorists could try "rapidly propelling two masses of weaponsgrade plutonium or uranium towards one another to create a critical mass," by using conventional explosives.

That is how the Hiroshima bomb, was detonated, experts point out.

Scientists said that a plutonium bomb could be built with a much smaller quantity of material than a uranium bomb, but that it would probably begin a chain reaction before the parts could be moved into position, resulting in a nuclear blast that would not be very powerful.

The first plutonium bombs, tested at the Trinity Site in New Mexico and then used at Nagasaki, had elaborate arrangements of explosives to squeeze the mass together and hold it there long enough for the chain reaction to become sufficiently established.

Mr. Markey's letter cites cases in which nuclear weapons laboratories and manufacturing plants have failed security drills conducted by Navy Seals and other commandos playing the part of terrorists. For example, in a drill at Los Alamos National Laboratory in 1997, the "terrorists" used a garden cart to

steal enough weapons-grade uranium for numerous nuclear weapons, a report cited by Mr. Markey says.

But John A. Gordon, a retired Air Force general who is under secretary of energy for national security, expressed confidence in security.

"After Sept. 11, we've put the folks on higher alert and they're working very aggressively," he said. "I think a D.O.E. weapons site is one of the last places a terrorist would think about attacking and having hopes of success; the security basically bristles."

General Gordon said "attackers" sometimes prevailed in security drills because "sometimes we run them to failure."

"We want to find out where the system would break down, and we run stuff that is guaranteed to lose in the end," he said. "After each one of them, we strengthen security."

The Energy Department has been concerned since at least 1991 about the possibility of terrorists using its materials to build a bomb on site, but Mr. Timm and others questioned whether suicidal terrorists were a likely threat.

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Back to Top

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