



Flying Plate Disrupter

**Project Description:**

Explosive devices are a primary tool of terrorists. Large explosive devices such as ammonium nitrate fuel mixtures in 55-gallon drums are a particularly challenging problem. The National Institute of Justice is sponsoring the Naval Surface Warfare Center's Indian Head Division to develop and demonstrate a solution to this problem using explosively propelled slugs, or "flying plates". Derived from military technology that was developed for breaching and destroying armored vehicles, this system consists of a plastic cylinder capped by a 3 inch to 6 inch diameter copper plate, and packed with a small explosive charge. When that charge is detonated, the plate is deformed into a slug and propelled into the explosive device, scattering the explosive material without detonation.



**Disrupter**



**Surrogate 55-gal. Device**

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**Status Report:**

Prototype design and development was completed in 1999. NIJ funded a successful demonstration with the FBI-sponsored, 10-agency, Kansas Missouri Bomb Technician Working Group, which was completed in August 2000. Phase I is complete, Phase II in September 03, with commercialization alternatives for this technology being explored as the project should be completed in FY 04.

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