MOBILE NON-LETHAL DISSEMINATOR

Large clouds of incapacitating material will hinder personnel activities in an area.

1. Description.

People will be incapacitated, not able to efficiently function, if they can not see. People who can not see will find it more difficult if breathing becomes uncomfortable in addition to not being able to see. The Army's new HMMWV mounted M56 multi-spectrum smoke and obscurants generator is capable of creating clouds of air born incapacitating materials.

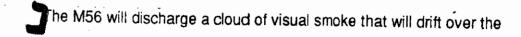
a. Concept.

b. Capabilities.

1) [

2)

- c. Operational technique.
- 1) The M56 large area smoke generator has the capability of making large amounts of vision denying smoke by vaporizing fog oil
- 2) Offensive advantage. The M56 smokes will not offer any advantage to the aggressors because they will be clearly observed using the M56s infrared Drivers Vision Enhancer. Other personel in the area will also see through the visual cloud using infrared weapon sights.
- 3) The M56 can simultaneously grind and disperse pelletized dry solids.



denial area. When necessary, the irritant material will also be discharged and will drift with the visual smoke.

d. Advantages. Smoke and irritants can be used in conjunction with normal armaments. The M56 with the smoke and irritant materials will not require any more care than the existing smoke generators. The effects of smoke and irritants on people are temporary and disappear with time. When not being used in an incapacitating operation the M56 can be used to block visual and infrared weapon sights during offensive and defensive operations.

2. Background.

The M56 smoke generator can create a cloud of white smoke using liquid fog oil and a cloud of solid particles. The aimable Drivers Vision Enhancer mounted on the M56 can see through the visual screening fog oil cloud.

There is a large body of knowledge on the irritating dry powders known as "pepper spray" or "Mace". There is also information on the pelletizing and coating of powders. "Pepper spray" or "Mace" once pelletized and coated will be easy to handle and safe.





Work to be done.

Bring together the irritant, pelletizing and coating technologies.

Demonstrate the irritant materials can be pelletized and coated.

Demonstrate the M56s capability to grind and disperse the materials.

4. Risk areas.

The environment. The Environmental Protection Agency may not have addressed releasing large quantities of the "pepper spray" or "Mace" materials.

- 5. Deliverables. Proof-of-principle demonstration and feasibility report.
- 6. Cost estimate, \$300K
- 7. Point of Contact.

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