

Less Lethal Specialty Munitions Item Requirements

1. TECHNICAL REQUIREMENTS:

1.1. Hand Delivered Pyrotechnic Canisters

- 1.1.1. Smoke Canister for Training (Reduced Toxicity). This hand delivered smoke canister shall be equipped with an M201A1 or equivalent fuse with an average 1.5 second fuse delay. It shall have sufficient number of gas ports to facilitate dispersion of chemical and have a continuous discharge time of 30-40 seconds. The chemical shall be formulated to be less toxic than Hexachloroethane (HC) smoke. Performance shall be equal to or better than Defense Technologies part number 1063, Saf-smoke Grenade.
- 1.1.2. Continuous Discharge Large Smoke Canister (Operations). This hand delivered smoke canister shall be equipped with an M201A1 or equivalent fuse with an average 1.5 second fuse delay. It shall have sufficient number of gas ports to facilitate dispersion of chemical and have a continuous discharge time of 90-120 seconds. It is desired that the chemical be formulated with Hexachloroethane (HC) smoke or chemical substance with equivalent properties and performance characteristics. Performance shall be equal to or better than Defense Technologies part number 1083, Military Style Continuous Discharge HC Smoke Grenade.
- 1.1.3. Continuous Discharge CS Canister. This hand delivered smoke canister shall be equipped with an M201A1 or equivalent fuse with an average 1.5 second fuse delay. It shall be no larger in diameter than 2.38 inches and no more than 6.05 inches in length. It shall have sufficient number of gas ports to facilitate dispersion of CS and have a continuous discharge time of 30-40 seconds. Performance shall be equal to or better than Defense Technologies part number 1082, Riot Control Continuous Discharge Grenade- CS.
- 1.1.4. Orange Colored Smoke Canister. This hand delivered smoke canister shall be equipped with an M201A1 or equivalent fuse with an average 1.5 second fuse delay. It shall have sufficient number of gas ports to facilitate dispersion of chemical and have a continuous discharge time of 30-40 seconds. It shall have an orange smoke-producing chemical. Performance shall be equal to or better than Combined Systems, INC, model number 6210, Hand Grenade Orange Smoke.
- 1.1.5. Green Colored Smoke Canister. This hand delivered smoke canister shall be equipped with an M201A1 or equivalent fuse with an average 1.5 second fuse delay. It shall have sufficient number of gas ports to facilitate dispersion of chemical and have a continuous discharge time of 30-40 seconds. It shall have a green smoke-producing chemical. Performance shall be equal to or better than Defense Technologies part number 1065, Military Style Smoke Grenade-Green.
- 1.1.6. Pocket Tactical Smoke Canister. This hand delivered or launchable canister shall be equipped with an M201A1 or equivalent fuse with an average 1.5 second fuse delay, followed by continuous smoke discharge of 20-25 seconds. The chemical shall be formulated to be less toxic than Hexachloroethane (HC) smoke. Performance shall be equal to or better than Defense Technologies part number 1017, Pocket Tactical Grenade-Saf-smoke.

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1.1.7. Pocket Tactical CS Canister. This hand delivered or launchable canister shall be equipped with an M201AI or equivalent fuse with an average 1.5 second fuse delay, followed by continuous CS discharge of 20-25 seconds. Performance shall be equal to or better than Defense Technologies part number 1016, Pocket Tactical Grenade-CS.

1.1.8. Three Part Sub-Munitions CS Canister. This hand delivered smoke canister shall be equipped with an M201AI or equivalent fuse with an average 1.5 second fuse delay. The canister shall contain three sub-munitions. After detonation of separation charge, it shall separate its three pieces to a distance of 20 feet and continuously release 92 grams of CS for 20-30 seconds. Performance shall be equal to or better than Defense Technologies part number 1026, Triple Chaser Grenade- Separating Canister- CS.

1.1.9. Non-Burning Internal Canister OC Grenade. This hand delivered OC canister shall be equipped with an M201AI or equivalent fuse with an average 1.5 second fuse delay. The canister shall be equipped with an internal canister that will contain the burned pyrotechnic contents. After detonation, the contents will combust and release chemical through ports on the outer canister while containing all fire-producing properties. The device shall contain a minimum of 7.0 grams of OC and discharge for 20-30 seconds. Performance shall be equal to or better than Defense Technologies part number 1032, Tri- Chamber Flameless Grenade - OC.

1.2. Non-Pyrotechnic Indoor/Outdoor Use

1.2.1. Flameless Expulsion Grenade (OC). This hand delivered canister shall be non-burning. It shall be equipped with an M201AI or equivalent fuse with an average 1.5 second delay. It shall expel approximately 0.5 grams of OC through gas ports located on the canister within 3 seconds. Performance shall be equal to or better than Defense Technologies part number 2040, Flameless Expulsion Grenade-OC.

1.2.2. Flameless Expulsion Grenade (CS). This hand delivered canister shall be non-burning. It shall be equipped with an M201AI or equivalent fuse with an average 1.5 second delay. It shall expel approximately 4.5 grams of CS through gas ports located on the canister within 3 seconds. Performance shall be equal to or better than Defense Technologies part number 2042, Flameless Expulsion Grenade-CS.

1.2.3. Flameless Expulsion Grenade (Inert). This hand delivered canister shall be non-burning. It shall be equipped with an M201AI or equivalent fuse with an average 1.5 second delay. It shall expel an inert material through gas ports located on the canister within 3 seconds. Performance shall be equal to or better than Defense Technologies part number 2043, Flameless Expulsion Grenade-Practice.

1.3. Hand Delivered Rubber Ball Grenades

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1.3.1. Rubber Ball Grenade. This device shall be equipped with an M201AI or equivalent fuse with an average 1.5 second delay, followed by another 0.5 second delay charge which disperses approximately 180, .32 caliber sized rubber balls in a fifty foot radius. Performance shall be equal to or better than Defense Technologies part number 1090, Stinger Rubber Ball Grenade- Rubber Pellets Only.

1.3.2. Rubber Ball Grenade (CS). This device shall be equipped with an M201AI or equivalent fuse with an average 1.5 second delay, followed by another 0.5 second delay charge which disperses approximately 180, .32 caliber sized rubber balls in a fifty foot radius. **The device will also disperse approximately .07 oz of CS upon detonation.** Performance shall be equal to or better than Defense Technologies part number 1088, Stinger Rubber Ball Grenade- CS.

1.4. 40mm Launched Specialty Impact Munitions

1.4.1. 40mm Direct Impact Sponge Cartridge. This cartridge shall be propelled by smokeless powder shall and have a projectile consisting of a plastic body and foam (sponge) nose. The projectile shall exhibit a velocity of 285-330 feet per second at 5ft, when fired from an HK Model 69 Grenade Launcher. It shall be capable of accuracy by maintaining three shots within an extreme spread of 9 inches at the maximum effective range of 120ft. It shall have a non-lethal effective operating range between 10- 120 feet. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6325, eXact iImpact - 40 mm Sponge Round.

1.4.2. 40mm Direct Impact Sponge Cartridge (OC). This cartridge shall be propelled by smokeless powder shall and have a 1.45 ounce projectile consisting of a plastic body and foam (sponge) nose which disperses OC powder upon impact. The projectile shall exhibit a velocity of 295 ± 30 feet per second at 5ft, when fired from an HK Model 69 Grenade Launcher. It shall be capable of accuracy by maintaining three shots within an extreme spread of 6 inches at the maximum effective range of 120ft. It shall have a non-lethal effective operating range between 10- 120 feet. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325 40mm caliber launcher. Performance shall be equal to or better than Defense Technologies part number 6320, Direct Impact - OC.

1.4.3. 40mm Direct Impact Sponge Cartridge (Marking). This cartridge shall be propelled by smokeless powder shall and have a 1.45 ounce projectile consisting of a plastic body and foam (sponge) nose which disperses marking powder upon impact. The projectile shall exhibit a velocity of 295 ± 30 feet per second at 5ft, when fired from an HK model 69 Grenade Launcher. It shall be capable of accuracy by maintaining three shots within an extreme spread of 11 inches at the maximum effective range of 120ft. It shall have a non-lethal effective operating range between 10- 120 feet. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325 40mm caliber launcher. . Performance shall be

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equal to or better than Defense Technologies part number 6326, Direct Impact - Marking.

1.4.4. 40mm Direct Impact Sponge Cartridge (Inert). This cartridge shall be propelled by smokeless powder shall and have a 1.45 ounce projectile consisting of a plastic body and foam (sponge) nose which disperses inert powder upon impact. The projectile shall exhibit a velocity of 295 ± 30 feet per second at 5ft, when fired from an HK Model 69 Grenade Launcher. It shall be capable of accuracy by maintaining three shots within an extreme spread of 4 inches at the maximum effective range of 120ft. It shall have a non-lethal effective operating range between 10 - 120 feet. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325 40mm caliber launcher. Performance shall be equal to or better than Defense Technologies part number 6323, Direct Impact - Inert.

1.4.5. 40mm Sponge Training Rounds. This cartridge shall be reloadable and simulate the dimensions and accuracy (to a range of 30 meters) of the Direct Impact Sponge Cartridge. The round must be able to function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325 40mm caliber launcher. Each cartridge must be able to be fired a minimum of ten (10) times with only the replacement of propellant. Performance shall be equal to or better than Defense Technologies part number 6530, 40MM Training Kit.

1.5. Crowd Management Projectile Cartridges

1.5.1. 40mm Smokeless Powder Blast (OC). This 40mm cartridge shall instantaneously discharge 2.0 grams of OC chemical agent to a distance of approximately 25 feet from the muzzle of the device. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6040, 40 mm Muzzle Blast Smokeless Powder– OC.

1.5.2. 40mm Smokeless Powder Blast (CS). This 40mm cartridge shall instantaneously discharge 12.3 grams of CS chemical agent to a distance of approximately 25 feet from the muzzle of the device. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6042, 40 mm Muzzle Blast Smokeless Powder– CS.

1.5.3. 40mm Long Range Canister (CS). This 40mm cartridge shall be capable of launching a single canister to a distance of 150 feet. The canister shall discharge approximately 25 grams of CS for 20-30 seconds. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall

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be equal to or better than Defense Technologies part number 6182,40 mm Spede-Heat- CS.

- 1.5.4. 40mm Long Range Canister (Smoke). This 40mm cartridge shall be capable of launching a single canister to a distance of 150 feet. The canister shall discharge Smoke for 20-30 seconds. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6183,40 mm Spede-Heat- Smoke.
- 1.5.5. 40mm Cartridge Four Part Sub-Munitions (CS). This 40mm cartridge shall contain approximately 34.0 grams of CS chemical agent within four sub-munitions canisters and have a discharge time of 20 - 30 seconds. It shall have a maximum effective range of 100 yards. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6172,40 mm Skat-Shell- CS.
- 1.5.6. 40mm Cartridge Four Part Sub-Munitions (Smoke). This 40mm cartridge shall expel an inert smoke producing chemical that has a lower toxicity than Hexachloroethane (HC) within four sub-munitions canisters and that have a discharge time of 20 - 30 seconds. It shall have a maximum effective range of 100 yards. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6173, 40 mm Skat-Shell- Smoke.
- 1.5.7. 40mm Aerial Warning Munitions (100 Meters). This 40mm cartridge shall travel a distance of approximately 100 meters before detonating. Upon detonation, it will produce approximately 170 dB at 5 feet and 5 million candelas in 7.5 milliseconds. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6029WS, 40 mm Aerial Warning/Signaling Munition
- 1.5.8. 40mm Aerial Warning Munitions (200 Meters). This 40mm cartridge shall travel a distance of approximately 200 meters before detonating. Upon detonation, it will produce approximately 170 dB at 5 feet and 5 million candelas in 7.5 milliseconds. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6030WS, 40 mm Aerial Warning/Signaling Munition
- 1.5.9. 40mm Aerial Warning Munitions (300 Meters). This 40mm cartridge shall travel a distance of approximately 300 meters before detonating. Upon detonation, it will produce approximately 170 dB at 5 feet and 5 million candelas in 7.5

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milliseconds. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6031WS, 40 mm Aerial Warning/Signaling Munition

1.5.10. 40mm Aerial Warning Munitions OC (100 Meters). This 40mm cartridge shall travel a distance of approximately 100 meters before detonating. Upon detonation, it will produce approximately 170 dB at 5 feet and 5 million candelas in 7.5 milliseconds. Upon detonation, it shall disperse .32 grams of OC chemical. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6029OC, 40 mm Aerial Warning/Signaling Munition - OC

1.5.11. 40mm Aerial Warning Munitions OC (200 Meters). This 40mm cartridge shall travel a distance of approximately 200 meters before detonating. Upon detonation, it will produce approximately 170 dB at 5 feet and 5 million candelas in 7.5 milliseconds. Upon detonation, it shall disperse .32 grams of OC chemical. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6030OC, 40 mm Aerial Warning/Signaling Munition- OC

1.5.12. 40mm Aerial Warning Munitions OC (300 Meters). This 40mm cartridge shall travel a distance of approximately 300 meters before detonating. Upon detonation, it will produce approximately 170 dB at 5 feet and 5 million candelas in 7.5 milliseconds. Upon detonation, it shall disperse .32 grams of OC chemical. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 6031OC, 40 mm Aerial Warning/Signaling Munition- OC

1.6. Controlled Noise And Light Distraction Devices

1.6.1. Distraction Device Compact. This distraction device shall be non-reloadable. It shall have a metallic body measuring approximately 1.72 inches in diameter at the widest point and 5.50 inches in length, with exhaust ports located at the top and bottom of the device. It shall be made in a design that restricts the device from freely rolling on a flat surface. It shall be equipped with a M201A1 fuse or equivalent with an average 1.5 second delay, containing approximately 11 grams flash powder. After detonation, it will produce 175 dB at five feet with 6 - 8 million candela in 10 milliseconds. Performance shall be equal to or better than Defense Technologies part number 8922 NR, Distraction Device Low Roll II.

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- 1.6.2. Distraction Device. This distraction device shall be non-reloadable. It shall have a metallic body measuring approximately 2.01 inches in diameter at the widest point and 5.77 inches in length, with exhaust ports located at the top and bottom of the device. It shall be made in a design that restricts the device from freely rolling on a flat surface. It shall be equipped with a M201A1 fuse or equivalent with an average 1.5 second delay, containing approximately 12 grams flash powder. After detonation, it will produce 175 dB at five feet with 6 - 8 million candelas in 10 milliseconds. Performance shall be equal to or better than Defense Technologies part number 8902 NR, Distraction Device Low Roll.
- 1.6.3. Distraction Device Reloadable Steel Body. Reusable, non-bursting distraction device body measuring approximately 1.87 inches in diameter, and 4.7 inches in length, with ports located on the top and bottom, designed to be used with M201A1 fuse. Body must be rated for a minimum of 25 deployments. Performance must be equal to or better than Defense Technologies part number 8933, Distraction Device Low Roll Body.
- 1.6.4. Distraction Device Reload. This distraction device reload shall be equipped with an M201A1 fuse or equivalent with an average 1.5 second delay, containing approximately 12 grams flash powder. After detonation, it will produce 175 dB at five feet with 6 - 8 million candela in 9 milliseconds. The reload will be suitable for use in the Distraction Device Reloadable Steel Body. Performance shall be equal to or better than Defense Technologies part number 8901, Distraction Device Reload.
- 1.6.5. Command Initiated Distraction Device Reload. This command initiated reload shall be equipped with a 24" lead of shock tube for use with additional shock tube an initiator. The reload will be suitable for use in the Distraction Device Reloadable Steel Body (4.6.3). It shall contain approximately 12 grams flash powder. It is desired that after detonation it produce 175 dB at five feet with 6 – 8 million candela in 9 milliseconds. Performance shall be equal to or better than Defense Technologies reload, part number 7001 CI, Command Initiated Reload.
- 1.6.6. Distraction Device Training Fuse. This distraction device training fuse shall be an M201A1 type fuse or equivalent with an average 1.5 second delay. After detonation, it will produce 120 dB at five feet with less than 6 - 8 million candelas in 9 ± 5 milliseconds. The reload will be suitable for use in the Distraction Device Training Body. Performance shall be equal to or better than Defense Technologies part number 1697T, Distraction Device Training Fuse.
- 1.6.7. Distraction Device Training Body. This distraction device training body will be a replica of the Distraction Device Reloadable Steel Body. It will be

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reusable, non-bursting distraction device body measuring approximately 1.87 inches in diameter, and 4.7 inches in length, with ports located on the top and bottom, designed to be used with the Distraction Device Training Reload. Body must be colored to be distinguishable from operational devices and be rated for a minimum of 25 deployments. Performance must be equal to or better than Defense Technologies part number 8933T, Distraction Device Training Body.

1.6.8. Multiple Detonation Distraction Device. This distraction device shall be non-reloadable. It shall have a metallic body measuring approximately 2.15 inches in diameter at the widest point and 5.77 inches in length, with exhaust ports located at the top and bottom of the device. It shall be equipped with a M201A1 fuse or equivalent with an average 1.5 second delay. After fuse initiation, it will produce a minimum of seven (7) arrhythmic individual outputs producing between 143 dB and 172 dB at five feet with a minimum of 1 million candelas. All individual outputs must occur within 9 seconds of fuse initiation. Performance shall be equal to or better than Combined Tactical Systems part number 7290-9, Flash-Bang 9.

1.6.9. Low Profile Distraction Device. This munition shall measure approximately 3 inches wide, 11 inches in length, and no more than 0.7 inches thick. The munition shall be equipped with a minimum of 15 foot electric match. Upon electric initiation via a command initiator, the munition will produce approximately 175dB at 5ft and approximately 6-10 million candela. Performance shall be equal to or better than Amtec Less Lethal Systems part number ALST460, Tactical Blast Strip.

1.6.10. Command Initiator. This device shall have a hard plastic body approximately 2.75 in wide and 6.0 inches in length, and powered by a standard 9 volt battery. The device shall have individual electric wire connections and a positive safety means to interrupt the connection of the circuit, preventing accidental initiation. Performance shall be equal to or better than Amtec Less Lethal Systems part number ALSTCI, Command Initiator.

1.7. Ferret Rounds

1.7.1. 40mm Ferret Round (OC Powder). This 40mm cartridge shall be capable of launching a single frangible projectile filled with approximately .59 grams of OC powder at a velocity of approximately 450 fps. The projectile shall be designed to penetrate barriers of glass, particle board, and interior walls. Upon impact of the barrier, the nose cone will rupture and instantaneously deliver the OC powder on the other side of the barrier. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a

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Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 1290,40 mm Ferret OC Powder.

- 1.7.2. 40mm Ferret Round (OC Liquid). This 40mm cartridge shall be capable of launching a single frangible projectile filled with approximately 4.5 grams of OC liquid at a velocity of approximately 450 fps. The projectile shall be designed to penetrate barriers of glass, particle board, and interior walls. Upon impact of the barrier, the nose cone will rupture and instantaneously deliver the OC liquid on the other side of the barrier. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 1260,40 mm Ferret OC Liquid.
- 1.7.3. 40mm Ferret Round (CS Powder). This 40mm cartridge shall be capable of launching a single frangible projectile filled with approximately 6.0 grams of CS powder at a velocity of approximately 450 fps. The projectile shall be designed to penetrate barriers of glass, particle board, and interior walls. Upon impact of the barrier, the nose cone will rupture and instantaneously deliver the CS powder on the other side of the barrier. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 1292,40 mm Ferret CS Powder.
- 1.7.4. 40mm Ferret Round (CS Liquid). This 40mm cartridge shall be capable of launching a single frangible projectile filled with approximately 8.0 grams of CS liquid at a velocity of approximately 450 fps. The projectile shall be designed to penetrate barriers of glass, particle board, and interior walls. Upon impact of the barrier, the nose cone will rupture and instantaneously deliver the CS liquid on the other side of the barrier. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 1262,40 mm Ferret CS Liquid.
- 1.7.5. 40mm Ferret Round (Inert Powder). This 40mm cartridge shall be capable of launching a single frangible projectile filled with Inert powder at a velocity of approximately 450 fps. The projectile shall be designed to penetrate barriers of glass, particle board, and interior walls. Upon impact of the barrier, the nose cone will rupture and instantaneously deliver the Inert powder on the other side of the barrier. This cartridge shall function in an HK model 69, 40mm caliber grenade launcher, a Penn Arms Model GLI-40 40mm caliber launcher and a Defense Technology Model 1325. Performance shall be equal to or better than Defense Technologies part number 1293,40 mm Ferret Practice.