

INTRADEPARTMENTAL CORRESPONDENCE

DIVISIONAL ORDER #08-01

April 20, 2008

TO: Metropolitan Division Personnel

FROM: Commanding Officer, Metropolitan Division

SUBJECT: SAGE LESS-LETHAL MUNITIONS SYSTEM

The Sage SL-6 Multi-Role Projectile Less-Lethal Launcher has been a part of the Special Weapons and Tactics (SWAT) less-lethal inventory for over a decade. The Sage fires the Sage KO1 37mm Baton Impact Munitions. The SL-6 is a .37mm, rifled barreled weapon, with a six round capacity and a maximum range of 165 feet. The impact rounds are plastic and incased in a .37mm cartridge. The round travels at a rate of 240 feet per second weighing 2.7 ounces. The Sage has been deployed in an array of tactical situations and has afforded SWAT personnel with an effective alternative in gaining control of violent suspects. The use of the Sage has assured a level of consistency and reliability during SWAT missions that has preserved the life of suspects and SWAT personnel.

The Sage had been used countless times to subdue aggressive/combative suspects in situations where the use of other defensive weapons or tactics would place officers at risk of being within contact range of the suspect. The Sage is used to prevent situations from escalating and to affect an arrest with minimum injury to suspects. This order codifies SWAT protocols for Sage deployment and use of force reporting.

The Sage falls under the "Aggressive Combative" category of the Department's Situational Use of Force Options Chart. Deployment protocols for the Sage are similar to the Department's Super Sock Round (Bean Bag Shotgun) Less-Lethal Weapon System, including the required Garner/ Delore warnings to suspects. The Sage can also be deployed as a distraction or diversionary tactic during SWAT operations, as well as an impact tool for inanimate objects, such as lights, windows, or glass partitions. Use of the Sage in this manner is done to make an illumination system inoperable and/or cause a diversion during a tactical operation. The use of the Sage during SWAT operations will be evaluated by the SWAT Officer-in-Charge (OIC) for its tactical value prior to each use.

The minimum deployment distance for the Sage is 5 feet with a maximum effective range of 165 feet.

Supervisors and element members must use good judgment

at when deploying the Sage and is practical and appropriate.

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To	CHDR Williams	From	Capt Incontro		
Co./Dept.	CTSOB	Co.	metro		
Phone #		Phone #			
Fax #		Fax #			

Post-It® Fax Note	7671	Date	5-6-11	# of pages	8
To	CHDR WILLIAMS	From	LORRAINE		
Co./Dept.	CTSOB	Co.	METRO		
Phone #		Phone #	972-2435		
Fax #		Fax #			

Prior to SWAT deploying the Sage as a less-lethal option, the following factors *must be present*:

- Lethal force does not appear to be justifiable and/or necessary; and,
- Attempts to subdue the suspect by other conventional tactics have been, or will likely be, ineffective in a situation; or,
- There is a reasonable expectation that it will be unsafe for SWAT personnel to approach within contact range of the suspect.

TRAINING AND MAINTENANCE

Sage training is taught to all new SWAT personnel during Basic SWAT School. Only officers who have completed approved Sage training may use the weapon system. To maintain certification and Sage munitions weapon proficiency, a semi-annual qualification is administered to each member of SWAT (See attached for Sage Training and Qualification Course).

The semi-annual qualification takes place during SWAT weapon qualification training days. Along with semi-annual Sage training, SWAT personnel continue to deploy and use the Sage during SWAT training days. In addition, training sessions occur at least once per quarter. The training includes deployment protocols as well as a review of the applicable Use of Force Policy.

The Sage is maintained by the Metropolitan Divisional Armory and inspected on a quarterly basis to ensure proper function and sighting. Armory personnel also inspect Sage ammunition to ensure it is not damaged and conduct appropriate safety checks prior to deployment. When necessary, the Metro Armory sends the weapon to Sage Inc. for refurbishment and routinely monitors changes in manufacturer specifications and system modifications. The Metro Armory also inspects all Sage launchers fired during tactical operations. A Sage shall be stored in the SWAT truck, in the SWAT OIC or Assistant OIC's vehicles.

USE OF FORCE AND REPORTING PROCEDURES

Discharge of a Sage round during a use of force incident will be documented in accordance with established Department use of force policies and reporting procedures. Following the contact of a Sage round on a suspect, the OIC will notify the Incident Commander (I/C), inform them of the deployment and carefully monitor the suspect for signs of distress. If a medical emergency situation exists, on scene personnel shall request a rescue ambulance to the location.

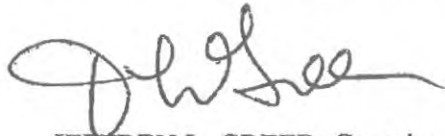
For a non-emergency, the on scene supervisor shall ensure the suspect is transported to a Department-approved facility for medical treatment prior to booking and obtain photographs of all visible as well as complained injuries, even when visible evidence of injury is not present.

When the Sage is deployed and fired as an impact device or diversionary device, the appropriate documentation shall be completed by the involved supervisor on the SWAT After Action Report.

When a Sage is fired and the round misses, fired accidentally, or deployed on an animal, no use of force report is necessary; however, an Employee's Report, Form 15.7, shall be completed documenting the occurrence.

CONCLUSION

The Sage has an established history of success during SWAT operations. The system continues to be an effective tool in controlling aggressive and combative suspects when lethal force is not justified and other conventional attempts to gain control have been or would be ineffective.



JEFFREY L. GREER, Captain
Commanding Officer
Metropolitan Division

Attachment

SAGE LESS LETHAL TRAINING/ QUALIFICATION COURSE
April 20, 2008

In order to maintain certification and Sage weapon proficiency, a semi-annual qualification will continue to be administered to each member of the Special Weapons and Tactics Team. The semi-annual qualification will take place during regular SWAT weapon qualification training days and occur during the months of January and July. Besides semi-annual Sage training, SWAT personnel will continue to deploy and use the Sage during the array of SWAT training sessions. These additional training sessions occur once per quarter during the year. These planned training events will be in concert with basic Sage training protocols, taught to new SWAT personnel during Basic SWAT School. The Sage training lesson plan, including the qualification and certification process is POST-certified and on file at Training Division.

The semi-annual qualification process with the Sage when incorporated with periodic training exercises by SWAT will ensure that each SWAT element member has a thorough understanding of the Sage. Ten rounds will be used for each individual qualification course. The qualification course will be within the established guidelines of the Sage Control Ordnance Inc. and completed from different distances. To complete the course, officers fire from stationary shooting positions and conduct shooting "On-the-Move" exercises.

Instructor(s) will review Department criteria and Use of Force policy relating to deployment in field situations. During the presentation, less lethal scenarios will be discussed to ensure proper deployment and specific target areas are reviewed. The primary target area is the abdomen. The aiming point is the abdomen or torso. The secondary target areas are the arms, hands and legs. A Sage round can cause serious injuries if fired at the head, neck, spine, groin or kidneys. Officers should avoid firing at those areas if at all possible. Shooting at suspects at distances of less than five feet is generally prohibited. *The minimum deployment distance for the Sage System is 5 feet with a maximum effective range of 165 feet.* Officers need to keep in mind that when in an enclosed location or building, the distance between them and the suspect, can quickly diminish. This is important to remember because serious injuries can result when the Sage is fired at close distances.

A "Doerle" warning and continued verbalization attempts shall be given, when feasible, to the suspect before any impact device is utilized. A warning is not required when an officer is attacked and must respond to the suspect's actions. Additionally, if a tactical plan requires the element of surprise in order to stabilize the situation, a warning will not be given. The warning should include potential consequences of the use of force. The use of force warning, or why it was not given, shall be documented.

If no warning was given, an explanation shall be documented with an appropriate justification. Simply stating that the "element of surprise was needed" or "for officer safety" reasons will not satisfy this requirement. The explanation must clearly articulate the reason why the element of surprise, officer safety considerations or any other appropriate reason caused the officer(s) not to provide the warning. An officer who fires a Sage should constantly assess the suspect's actions and evaluate the effectiveness of every round. If compliance is not obtained by impacting the primary target area, then the secondary target areas should be considered. Officers may have to resort to an alternate plan of action if it appears the Sage is ineffective.

SAGE LESS LETHAL TRAINING/ QUALIFICATION COURSE
April 20, 2008

The qualification test will consist of officers demonstrating their ability to handle and use the Sage. This will include the ability of the officer to articulate his/her understanding of why and when the Sage can be deployed. The officers must obtain a passing qualification score. The qualification for SWAT personnel is designed to meet the Division's semi-annual qualification requirements. This will enhance each individual officer's overall manipulation and marksmanship.

SAGE SYSTEM QUALIFICATION COURSE

<u>YARDS</u>	<u>DRILL</u>	<u>TIME</u>	<u>ROUNDS</u>
15	Standing low ready- Pair center mass	8 seconds	2x1=2
10	Standing low ready- Pair center mass	8 seconds	2x1=2
7	Standing low ready Pair center mass	6 seconds	2x1=2
10 to 3	Shooting on the move- On command to initiate move forward firing a pair center mass	8 seconds	2x2=4

TOTAL ROUNDS : 10

SCORING : LAPD SILHOUETTE TARGET

PASSING SCORE: 80

Scoring will consist of hits on lower target torso area, 10 ring area and below (10, 9, 8 & 5 rings) to ensure approved scorable hit. 10 points will be given for each hit in the scoring area.

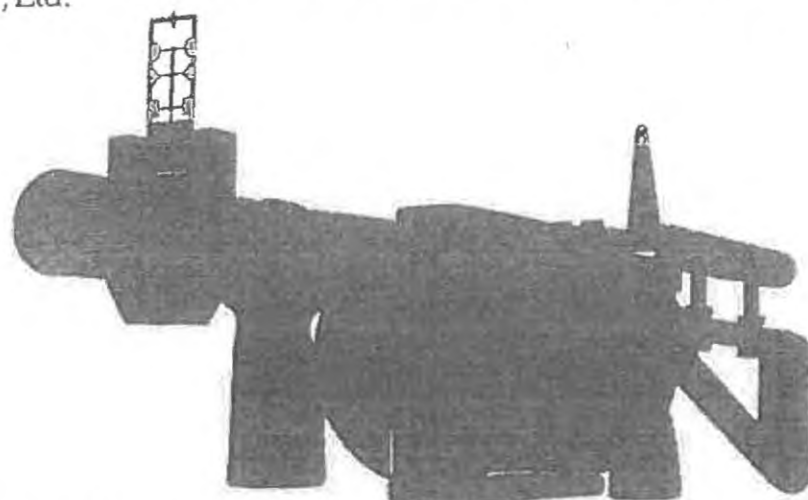
SAGE-10 rounds 100 points maximum to qualify
 80 points minimum to pass



Sage International, Ltd.

SL-6

MULTI-ROLE PROJECTILE LAUNCHER



SL-6

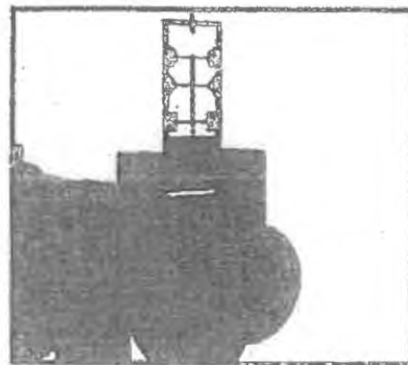
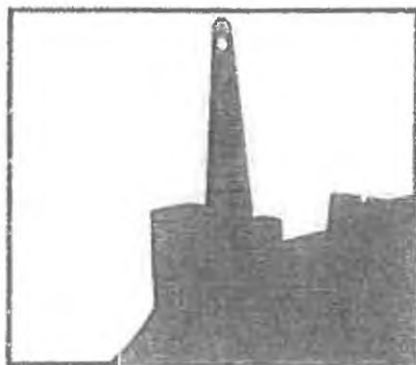
MULTI-ROLE PROJECTILE LAUNCHER

Neutralizing a knife wielding mentally deranged person, introducing chemical agents into a rioting crowd, or delivering tear gas to rout a barricaded gunman are all less lethal alternatives to deadly force. Having an accurate multiple shot system available to deliver blunt trauma inducing batons, pyrotechnic chemical agents and non-pyrotechnic barricade penetrating projectiles has become a necessity for the successful completion of many police operations. The SL6, 37mm multi-role six shot projectile launcher fulfills current police requirements for a launcher capable of firing either Sage Control Ordnance, Inc. or ARWEN* ammunition.

The SL6's exceptional accuracy is a product of a rifled barrel, a calibrated sighting system and a family of ammunition manufactured to standards which maximize performance. The deep five groove rifling of the SL6 spin stabilizes projectiles by engraving nylon rotating bands. The calibrated sighting system consists of a flip-up rear aperture sight and a flip-up front ballistic ladder, calibrated in 20 meter increments out to 100 meters.

The SL6 has a unique revolver type spring motor magazine drive with mechanical stops, which assures positive chamber indexing. Two safety features make the SL6 extremely user friendly and safe. A push type safety behind the trigger blocks the trigger when the safety is "on". A second patented safety employs an "out of line" firing system which prevents the SL6 from firing unless the trigger is fully cycled, thus eliminating accidental discharges from dropping the launcher.

The SL 6 is manufactured in the United States and backed by a lifetime warranty covering parts and workmanship. These features make the SL6, 37mm multi-role projectile launcher the professional's choice.



Exceptional accuracy by the SL6 is achieved by using a rifled barrel and a calibrated sighting system, the sighting system consists of a flip up rear aperture sight and a flip up front ballistic ladder, calibrated in 20 meter increments to 100 meters.

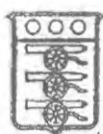
Technical data

Weapon

Calibre	37mm
Type of action	Revolver
Capacity	5 rounds
Rifling	5 groove
Weight	6.8 lbs (8.4 lbs loaded 5 rounds)
Length	30 inches to 33 inches
Rate of fire (5 rounds)	60 rounds/minute
Sustained rate of fire	12 rounds/minute (aimed shots)

Accessories

Carrying Case
Ammunition Belt
Reloading Dies
Cleaning Brush
Sling



ROYAL ORDNANCE FACTORIES

For further information contact



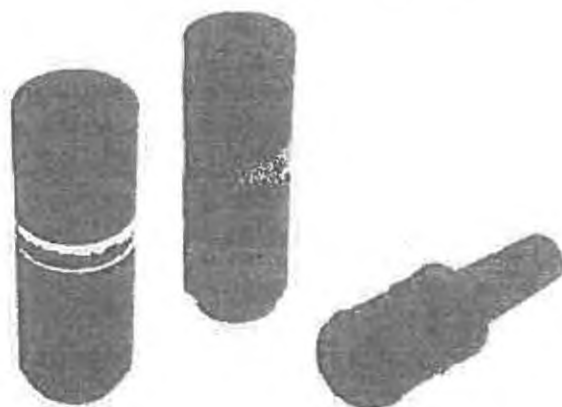
Designed and Manufactured By
Royal Small Arms Factory
Enfield Lock, Enfield, Middlesex
England EN3 6JL

Distributed in USA and Canada By
Sage International, Ltd
1856 Star-Batt Drive
Rochester, Michigan. 48063
(313) 852-8733
Telex 023-5603 SAGEINTL RCHS

Due to a policy of continuous development and improvement, the Royal Small Arms Factory reserves the right to supply products which may differ slightly from those illustrated.



KO1 & KO1LE 37 mm BATON TYPE IMPACT AMMUNITION



The use of plastic or wood baton type ammunition to control an individual or a rioting crowd is not new. The limiting factors have always been lethality and inaccuracy.

The solution to the problem came in the form of a rifled barrel and ammunition with the ability to deliver exceptional accuracy and specific quantities of impact energy to the target. The Sage Control Ordnance Inc. Impact Ammunition system is a field proven confirmation that it is possible to overcome the two aforementioned shortcomings.

SAGE CONTROL ORDNANCE, INC.'s patented KO1 and KO1LE baton type impact ammunition is ARWEN compatible. The accuracy of KO ammunition centers around SAGE CONTROL ORDNANCE, INC.'s new baton design and the use of the ammunition in a rifled barrel. Close quality control has been instituted to insure optimum performance of each Sage Control Ordnance, Inc.'s KO baton ammunition component part.

KO ammunition should only be used in Sage Control Ordnance, Inc.'s PL37 and SL-6 Multi-Role Projectile Launchers and Arwen weapons.

Reloading die kits, which mount on RCBS type presses are available for reloading KO1 and KO1LE baton type impact ammunition. Ammunition components such as: KO batons, KO cartridge cases and KO propelling charges (KO1 & KO1LE) are also available, making training with KO baton type impact ammunition the lowest cost per round.

TECHNICAL SPECIFICATIONS

Caliber:	37mm	Velocity:	KO1 240 f/s (73.5 m/s) KO1LE 175 f/s (53.6 m/s)
Product Type:	KO1 Impact Ammunition KO1LE Impact Ammunition	Kinetic Energy:	KO1 153 f/lbs (216 joules) KO1LE 81 f/lbs (114 joules)
Projectile Weight:	KO1 1194 grains (77.5 grams) KO1LE 1194 grains (77.5 grams)	@ 10 feet	
Cartridge Case:	Reloading; aluminum, special rebated rim	Rotating Bands:	Two; Replacement Nylon
		Baton Material:	Polyurethane

*ARWEN is a registered trademarks of Royal Ordnance, PLC.