

Military Equipment

Inventory Attachment

Santa Barbara County Sheriff's Office

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The following is a list of military equipment as defined by Government Code §7070 held/maintained by the SBSO

A. MILITARY EQUIPMENT

Several vehicles and some of the equipment items were obtained at no cost to taxpayers by private donations. The cost for these items is listed as “no initial cost”.

- 1. Unmanned Aircraft System (UAS)** – An unmanned aircraft of any type that is capable of sustaining directed flight, whether preprogrammed or remotely controlled (commonly referred to as an unmanned aerial vehicle (UAV)), and all supporting or attached systems designed for gathering information through imaging, recording or any other means.

- a. Description, quantity, capabilities, and purchase cost

- i. **DJI Matrice 210V2, cost: no initial cost, quantity: 2.** Drone assigned to Search and Rescue (SAR). Drone is equipped with an infrared camera and has a flight time of 25 minutes. Donated by a local business.

- ii. **Brinc Lemur Drone S, cost: no initial cost, quantity: 1.** Designed to enter dangerous situations to keep people safe, the BRINC LEMUR S is an American-made purpose-built tactical drone designed to aid special response teams in barricade, hostage, active shooter, and other high-risk situations. Drone is equipped with a day/night vision IR camera and uses lithium-ion batteries which provide a 31-minute flight time. Drone was obtained with privately donated funds.

- b. Purpose

- i. DJI Matrice - To be deployed when its view would assist SAR or incident commanders with the following situations, including but not limited to:

1. Search for missing persons
 2. Major collision investigations
 3. Natural disaster management
 4. Crime scene photography
 5. Tactical or other public safety and life preservation missions
 6. In response to specific requests from local, state, or federal fire authorities for fire response and/or prevention

- ii. Brinc Lemur Drone S – Drone is specific for interior use. Drone would be deployed on critical incidents where an interior view of a structure would provide valuable information to law enforcement personnel while limiting their exposure to hazards. Situations for deployment would include, but are not limited to:

1. Barricaded suspects
 2. Hostage rescue
 3. High-risk warrant service
 4. Suicidal subjects

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5. Natural disasters

c. Authorized Use

Only assigned operators who have completed the required training shall be permitted to operate drones during approved missions.

d. Expected Life Span

All UAS equipment, approximately 5 years.

e. Fiscal Impact

i. DJI Matrice – \$800 battery replacement every 2 years.

ii. Brinc Lemur Drone S – \$2,000 annually for warranty and data plan.

f. Training

i. DJI Matrice – All UAS operators are licensed by the Federal Aviation Administration (FAA) for UAS operation. Members complete the Kings Schools online course and test for certification. Additional in-house SAR training is conducted to maintain equipment familiarity.

ii. Brinc Lemur Drone S – All members complete a Brinc 3-day training course and the Kings Schools online course. Kings School includes test for certification.

g. Legal and Procedural Rules

Use is established under Lexipol §603 and FAA Regulation 14 CFR Part 107.

2. Bomb Robots – Unmanned machine operating on the ground utilized to enhance the safety of the community and law enforcement personnel, assigned to the SBSO Bomb Squad.

a. Description, quantity, capabilities, and purchase cost

i. **REMOTEC robot, \$186,500, quantity: 2.** Purchased with federal grants, these robots are operated by the bomb squad during life-threatening critical incidents. Allows for the remote observation, manipulation of items, and render safe procedures involving actual or suspected hazardous devices. Includes wireless system upgrades that were installed after acquisition of the robots.

ii. **PAC BOT series 1, no initial cost, quantity: 1.** Robot operates as a surveillance platform utilized by the bomb squad. Obtained at no cost through the military 1033 program.

iii. **MARCBOT IV, no initial cost, quantity: 1.** Robot operates as a surveillance platform utilized by the bomb squad. Obtained at no cost through the military 1033 program.

b. Purpose

Unmanned machine operating on the ground utilized to enhance the safety of the public and law enforcement during hazardous device

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mitigation and other life-threatening critical incidents. Robots obtain visual and audio data, deliver phones, manipulate doors/windows, disrupt packages, and clear buildings of hazards without exposing law enforcement personnel to a potentially hazardous situation.

c. Authorized Use

Only members of the SBSO bomb squad are authorized to operate bomb robots. Operation of this equipment is limited to trainings and critical incidents where the use of a robot would enhance the safety of the community and law enforcement personnel.

d. Expected Life Span

10-20 years, depending on model.

e. Fiscal Impact

Annual maintenance and battery replacement cost is approximately \$2,500.

f. Training

All robot operators must be members of the SBSO Bomb Squad. All members attend the FBI hazardous device school where additional training on robots is received, in addition to bi-monthly team training.

g. Legal and Procedural Rules

SBSO Bomb Squad robots are used for legitimate law enforcement purposes where a significant threat to life exists, bomb squad training, and public demonstrations. These robots are utilized in a manner that respects the privacy of our community pursuant to local, state, and federal law.

3. Tactical Robots - Unmanned machine operating on the ground utilized to enhance the safety of the community and law enforcement personnel, assigned to the SBSO Special Enforcement Team (SET).

a. Description, quantity, capabilities, and purchase cost

i. **Transcend Tactical Vantage Patrol Robot, cost: no initial cost, quantity: 1.**

The Transcend Tactical Vantage Patrol Robot is a patented automatic stair climbing robot for First Responders. The Vantage Patrol Robot can be used without prior training to enter a house or building to see, hear, and learn what is happening before sending law enforcement inside. The robot uses two camera systems with a drive camera and a pan-tilt-zoom camera. The cameras are equipped with night vision and FLIR thermal vision. The robot is equipped with a two-way audio, push to talk system. Once deployed, the robot can be directed to move through a structure and transmit real-time video and audio to the handheld controller. These features can locate and identify subjects, hazardous devices, confirm the presence of hostages, and reveal the room layout. This robot was purchased using privately donated funds.

ii. **Recon Scout Throwbot XT Robot, cost: no initial cost, quantity: 2.**

The Recon Scout Throwbot is a small throwable robot platform that enables operators to obtain live video and audio reconnaissance within indoor or outdoor environments. It

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can be thrown into hazardous situations allowing operators to quickly make informed decisions when seconds count. Once deployed, the robot can be directed to move through a structure and transmit real-time video and audio to the handheld controller. These features can locate and identify subjects, hazardous devices, confirm the presence of hostages, and reveal the room layout. These robots were purchased using privately donated funds.

b. Purpose

Tactical robots are utilized to enhance the safety of the public and law enforcement during critical incidents. Robots can obtain visual and audio data, remotely communicate with persons, and clear buildings of hazards.

c. Authorized Use

All robot technology listed are assigned to the Special Enforcement Team (SET). Robots can be deployed for various needs that arise for the team, such as high-risk criminal apprehension, barricaded subjects, and hostage rescue operations. The deployment of robots should be at the discretion of the incident and/or tactical commander.

d. Expected Life Span

10 years per robot.

e. Fiscal Impact

Approximately \$500 in annual maintenance costs per robot.

f. Training

Designated SET instructors train all team members numerous times throughout the year, including night and day use, familiarization for new operators, driving robots out of view, and overall operation of the robot and associated equipment.

g. Legal and Procedural Rules

Use of tactical robots is limited to a legitimate law enforcement purpose with approval from the incident and/or tactical commander.

4. Armored Vehicles – Commercially produced wheeled armored personnel vehicle utilized for law enforcement purposes. All vehicles are assigned to the Special Enforcement Team (SET).

a. Description, quantity, capabilities, and purchase cost

- i. **Mine-Resistant Ambush Protected (MRAP) NSN 2355015901660, no initial cost, quantity: 1.** The MRAP was obtained at no cost through the Defense Reutilization and Marketing Office (DRMO). The MRAP is an armored vehicle that seats approximately 10 personnel and can provide ballistic protection for community members and law enforcement during tactical and rescue operations. The MRAP can withstand multiple bullet strikes from small and large caliber firearms. The MRAP has advanced off road and high-water capabilities which is essential in certain disaster responses and evacuations, such as the Montecito debris flow.

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- ii. **Lenco Bearcat G3 (unit 6073), no initial cost, quantity: 1.**
Armored rescue vehicle (ARV) used for tactical and rescue operations where ballistic protection and high clearance four-wheel drive are required. This includes barricaded suspects, high-risk warrant service, hostage rescue, and natural disaster response. Both Bearcats are able to withstand multiple bullet strikes from small and large caliber firearms. These vehicles were used extensively during the Montecito debris flow. The four-wheel drive capability facilitated access to victims who were trapped inside their homes following the mudslide. Several community members were rescued and transported in the Bearcats from the disaster zone. This vehicle was purchased using privately donated funds.
 - iii. **Lenco Bearcat G3 (unit 6072) with a camera, gas deployment apparatus, and water monitor package, no initial cost, quantity: 1.**
Same as above, but equipped with a camera, gas deployment system, and water monitor. The camera attaches to a boom mounted on the front of this Bearcat. This allows operators to gain a view of the interior of a structure or vehicle from the safety of the ARV. Camera is used for information gathering and clearing of hazards prior to the insertion of SET members. The gas deployment apparatus is a boom-mounted chemical agent delivery system. Similar to the camera, the gas delivery system allows the insertion of chemical agents into a structure or vehicle from the protection of the ARV. This vehicle was purchased using privately donated funds.
- b. Purpose
To be used in response to critical incidents to enhance community safety, scene containment/stabilization, and natural disaster response.
 - c. Authorized Use
The use of armored vehicles is at the discretion of the tactical commander and geographical patrol commander, based on the circumstances and threat level of a critical incident. Armored vehicles should only be used by personnel trained in their deployment and in a manner consistent with SBSO policy and training.
 - d. Expected Life Span
Approximately 25 years
 - e. Fiscal Impact
 - i. MRAP (unit 5801) – Annual maintenance cost = \$1,410
 - ii. Lenco Bearcat G3 (unit 6072) – Annual maintenance cost = \$525
 - iii. Lenco Bearcat G3 (unit 6073) – Annual maintenance cost = \$900
 - f. Training
 - i. All operators must attend a 2-week tactical school which includes instruction in the operation of armored vehicles. Continued training and familiarization occur during bi-monthly team trainings.
 - ii. MRAP operators shall complete a California Department of Motor Vehicles (DMV) commercial vehicle training and testing. Operators shall possess a class B license to operate the MRAP.

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g. Legal and Procedural Rules

Use is established by SBSO Lexipol policy §706 (Vehicle Operations).

5. Emergency Command Post Trailer – A mobile command post trailer utilized to manage large-scale and/or prolonged critical incidents.

a. Description, quantity, capabilities, and purchase cost

TPD Model SGN8538T 38' Emergency Command Post trailer, cost: no initial cost, quantity: 1. The need for a large mobile command post was identified following the Montecito debris flow. This trailer has several workstations to allow numerous personnel to manage and staff a large-scale and prolonged critical incident, such as a natural disaster. Trailer was obtained with privately donated funds.

b. Purpose

Usage of this mobile command post is based on the specific circumstances of a critical incident, large event, or natural disaster.

c. Authorized Use

Use of the Emergency Command Post trailer is authorized by the geographical commander or their designee.

d. Expected Life Span

Approximately 25 years

e. Fiscal Impact

Approximately \$1,000 annually (generator fuel use)

f. Training

No special license is required. Trailer shall only be towed by personnel who have received training in its operation.

g. Legal and Procedural Rules

Use is established by SBSO Lexipol policy §706 (Vehicle Operations).

6. Command Vehicle – A mobile command post vehicle utilized to manage large-scale and/or prolonged critical incidents.

a. Description, quantity, capabilities, and purchase cost

2012 International 4300 Braun truck, no initial cost, quantity: 1. The command vehicle is a mobile command post used for the management of critical incidents. The command vehicle provides storage for life-saving equipment used during specialized law enforcement operations. This vehicle is assigned to the Special Enforcement Team and was purchased using privately donated funds.

b. Purpose

Usage of this mobile command post is based on the specific circumstances of a critical incident, large event, or natural disaster.

c. Authorized Use

Vehicle shall only be operated by personnel who have completed the California Class B Commercial driver school and with proper licensing.

d. Expected Life Span

Approximately 25 years.

e. Fiscal Impact

Annual maintenance cost = \$1,946

f. Training

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California Department of Motor Vehicles (DMV) commercial vehicle training and testing. Operators shall possess a class B license.

g. Legal and Procedural Rules

- i. The command truck is only authorized for a specific law enforcement purpose requiring the management of a large-scale or prolonged critical incident.
- ii. Use is established by SBSO Lexipol policy §706 (Vehicle Operations).
- iii. California Department of Motor Vehicles (DMV) commercial vehicle training and a class B license are required to operate the command vehicle.

7. **.50 Caliber Rifles** – Long range precision rifles

a. Description, quantity, capabilities, and purchase cost

- i. **Barrett Firearms Model 82A1M semi-auto .50 caliber rifle, no initial cost, quantity: 3.** Rifles have the capability of immobilizing vehicles, penetrating barriers, and disrupting explosives at great distances. Rifles were donated from the Department of Energy (DOE).
- ii. **.50 caliber ammunition manufactured by Hornady and Barrett, cost: \$5 per round, quantity: Varied and subject to change based on training and operational usage.** Ammunition for .50 caliber rifles.

b. Purpose

Shall only be used during a life-threatening critical incident requiring a high-powered, long-range rifle round with significant penetrating abilities.

c. Authorized Use

Each rifle is assigned to SET. Deployment of this equipment would require a special circumstance and approval from the incident and/or tactical commander.

d. Expected Life Span

Indefinite with routine maintenance.

e. Fiscal Impact

No annual maintenance costs.

f. Training

Use of the .50 caliber rifles is limited to members of SET who have been trained and qualified as snipers. Monthly sniper training is conducted to maintain skillset and equipment familiarity.

g. Legal and Procedural Rules

Procedural rules for the use of .50 caliber rifles is outlined in Sheriff's Lexipol policy sections 300 (Use of Force) and 312 (Firearms).

8. **Crisis Negotiation Team (CNT) vehicle** – A vehicle used as a tactical operations communication center for members of the Crisis Negotiation Team.

a. Description, quantity, capabilities, and purchase cost

2019 Ford Transit 350HD Powerstroke Diesel, no initial cost, quantity:

1. Vehicle provides a secure working environment for crisis negotiators during critical incidents. Equipped with a propane generator

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to power lighting and communication equipment. This vehicle was purchased using privately donated funds.

b. Purpose

Provides shelter and specialized equipment for law enforcement personnel communicating with people in crisis during critical and life-threatening incidents.

c. Authorized Use

The CNT vehicle is used by law enforcement personnel who have been properly trained in the safe handling of the vehicle. All drivers shall have a valid California driver's license.

d. Expected Life Span

Approximately 25 years.

e. Fiscal Impact

i. Total maintenance costs since 2019 = \$605

ii. Annual propane cost = \$70

f. Training

CNT members are provided with instruction and vehicle familiarity during team trainings.

g. Legal and Procedural Rules

Use is established by SBSO Lexipol policy §706 (Vehicle Operations).

9. **Explosive Breaching** – Energetic materials used to conduct an explosive breach.

a. Description, quantity, capabilities, and purchase cost

- i. **25 grain detonation cord (984 foot roll), cost \$334, quantity: 1 roll.** 25 grain detonation cord is a thin, flexible tube filled with pentaerythritol tetranitrate (PETN). PETN has an exploding rate of approximately 6400 m/s which explodes almost instantaneously. Detonation cord can be shaped to accommodate a variety of target-specific charges.
- ii. **50 grain detonation cord (2,000 foot roll), cost: \$1,260, quantity 1 roll.** 50 grain detonation cord is a thin, flexible tube filled with pentaerythritol tetranitrate (PETN). PETN has an exploding rate of approximately 6400 m/s which explodes almost instantaneously. Detonation cord can be shaped to accommodate a variety of target-specific charges. 50 grain detonation cord is twice as energetic as 25 grain cord.
- iii. **100 grain detonation cord (984 foot roll), cost: \$738, quantity: 1 roll.** 100 grain detonation cord is a thin, flexible tube filled with pentaerythritol tetranitrate (PETN). PETN has an exploding rate of approximately 6400 m/s which explodes almost instantaneously. Detonation cord can be shaped to accommodate a variety of target-specific charges. 100 grain detonation cord is twice as energetic as 50 grain cord.
- iv. **Nonelectric detonators with 40' shock tube, cost \$11.95 each, quantity: 100.** Zero delay detonators with 40' length of shock tube attached. A detonator (or blasting cap) is a small sensitive

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primary explosive device generally used to detonate a larger, more powerful and less sensitive secondary explosive.

- v. **20 gram boosters, cost \$6.83 each, quantity: 20.** The slip on booster is a flexible PETN-based composition shaped into a cylinder. It is manufactured in 20-gram units and is used primarily for increasing output strength of a detonator, detonating cord, or a booster assembly.
- vi. **C2 sheet explosive (20lb roll), cost: \$1,091, quantity: 1 roll.** A flexible PETN-based sheet explosive. Sheet explosive can be cut into shapes to accommodate various breaching charges.

b. Purpose

Explosive breaching is used to gain rapid access to a room or structure when an emergent law enforcement need exists. This includes hostage rescue or other situations where precise and immediate access through a fortified door or wall is needed to prevent injury and loss of life. Energetic materials (explosives) are used to make breaching charges of various shapes and strength which are specifically designed for the target. The materials release gasses, heat, and light when initiated. Breaching charges are specifically designed to cause structural failure of the desired target. All charges are built by SET members and can include non-energetic materials such as water, rubber, and gel.

c. Authorized Use

Use is limited to training and critical incidents where the precise use of a minimal amount of explosives is required to gain entry during a critical incident. The use of explosives on a critical incident shall be authorized by the incident and/or tactical commander.

d. Expected Life Span

- i. Detonation cord – 15 years
- ii. Nonelectric detonators – 5 years
- iii. Boosters – 15 years
- iv. Sheet explosive – 15 years

e. Fiscal Impact

Annual maintenance is approximately \$500 which includes the cost of replenishing expendable materials.

f. Training

Explosive breaching tools are only handled by members who have attended an 80-hour explosive breaching training course and participate in ongoing quarterly training. Only members who have successfully completed the 80-hour explosive breaching course and passed the CalOSHA test receive a blaster's license. The blaster's license is restricted to classification (E) Limited: Tactical Breaching for Law Enforcement Only, Non-Electric Initiation.

g. Legal and Procedural Rules

Legal and procedure rules which govern the use of explosive breaching include the Occupational Safety & Health Administration (OSHA) regulations, ATF guidelines, SET operations manual, and Santa Barbara Sheriff Lexipol §300 (Use of Force). Additionally, a member who is

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currently licensed as a CalOSHA certified blaster must be present during training and operational deployment.

10. Long Range Acoustic Device (LRAD) – The LRAD is a high intensity directional acoustic array for long range, clear hailing, notification, and warning tone. The LRAD is primarily used as a communication device.

i. Description, quantity, capabilities, and purchase cost **LRAD**

Model 500 manufactured by Genasys, no initial cost, quantity:

1. A long, medium, and near-range acoustic hailing device to warn and communicate to crowds, individuals, and potential vehicle/vessel threats over distances up to 3,000 meters. This LRAD was purchased with privately donated funds.

ii. **LRAD Model 300 manufactured by Genasys, no initial cost, quantity: 1.** A compact, lightweight LRAD designed for applications ranging from fixed security installations to mid-sized vehicles and vessels, the Model 300 can be transported to provide law enforcement personnel with long-range communication and safe, scalable non-kinetic escalation of force. This LRAD was purchased with privately donated funds.

b. Purpose

LRADs are used to issue dispersal orders during crowd control and riot situations, or to address the public in the event of civil emergencies, natural disasters, evacuations, and other critical incidents (i.e. missing persons, perimeters for wanted suspects, K9 deployments, and warrant service announcements). The LRAD may also be used as a warning tone.

c. Authorized Use

LRADs shall only be utilized by personnel trained in its operation/deployment and used in a manner consistent with department policy.

d. Expected Life Span

25 years.

e. Fiscal Impact

No annual maintenance costs.

f. Training

All operators receive training prior to deployment in the field.

g. Legal and Procedural Rules

Use of the LRAD requires approval through SBSO chain of command and compliance with Lexipol policy §300 (Use of Force).

11. Water Monitor – A roof-mounted water delivery system utilized for firefighting from a Bearcat.

a. Description, quantity, capabilities, and purchase cost

125-300 GPM Lenco water monitor, no initial cost, quantity: 1. Roof-mounted Bearcat water monitor capable of fire suppression during a critical incident. Water monitor does not work independently of the Bearcat. Water monitor was included with add-on package included with

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one of the Lenco G3 Bearcats (unit 6072). Add-on package included the camera, gas deployment apparatus, and water monitor.

b. Purpose

The water monitor is used for tactical firefighting where forward deployment of fire resources is not an option due to safety, such as an armed barricaded suspect using fire as weapon.

c. Authorized Use

With approval from the incident commander, the water monitor is authorized for tactical firefighting, or when the use of fire as a weapon is suspected (i.e. barricaded suspect threatening to set fire to home).

d. Expected Life Span

25 years.

e. Fiscal Impact

No annual maintenance costs

f. Training

All operators must receive training on the use of the water monitor prior to deployment in the field. Training involves members of the Santa Barbara County Fire Department who provide subject matter expertise in the maintenance and usage of fire suppression equipment.

g. Legal and Procedural Rules

Use of the water monitor requires approval through the incident and/or tactical commander.

12.40mm Launchers and Munitions – 40mm launchers are utilized by sworn personnel as a less lethal tool to launch impact rounds.

a. Description, quantity, capabilities, and purchase cost

- i. **Defense Technology LMT single shot 40mm launcher, cost \$900, quantity: 23.** Single launcher capable of firing a less lethal 40mm projectile.
- ii. **Defense Technology four shot 40mm launcher, cost \$1950, quantity: 4.** Four shot launcher capable of firing 40mm less lethal projectiles.
- iii. **Penn Arms L640-1 six shot 40mm spring wound launcher, cost \$3,146, quantity: 2.** Six shot launcher capable of firing 40mm less lethal projectiles.
- iv. **Defense Technology Exact Impact 40mm Standard Range Blue Nose Sponge round, cost: \$20, quantity: Varied and subject to change based on training and operational usage.** 40mm sponge round is a lightweight, high-speed projectile consisting of a plastic body and sponge nose that is spin stabilized via the incorporated rifling collar and the 40mm launcher's barrel. The round uses smokeless powder as the propellant and has velocities that are extremely consistent. Used to stop violent criminal behavior.
- v. **Defense Technology Exact Impact 40mm Extended Range Blue Nose Sponge round, cost: \$20, quantity: Varied and subject to change based on training and operational usage.** 40mm sponge round is a lightweight, high-speed projectile consisting of a plastic body and sponge nose that is spin stabilized via the incorporated rifling collar and the 40mm launcher's barrel. The

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round uses smokeless powder as the propellant and has velocities that are extremely consistent. Used to stop violent criminal behavior.

- vi. **Defense Technology Direct Impact 40mm Standard Range Marking Crushable Foam round, cost: \$20, quantity: Varied and subject to change based on training and operational usage.** 40mm direct impact munition used to incapacitate a single subject or control violent criminal behavior. When loaded with a green marking agent, the projectile can be used to indicate the aggressor involved in violent criminal behavior or a riot situation, to the team on the ground.
- vii. **Defense Technology Exact Impact 40mm Extended Range Marking Crushable Foam round, cost: \$20, quantity: Varied and subject to change based on training and operational usage.** 40mm direct impact munition used to incapacitate a single subject or control violent criminal behavior. When loaded with a green marking agent, the projectile can be used to indicate the aggressor to the team on the ground.
- viii. **Defense Technology Direct Impact 40mm Standard Range OC Crushable Foam round, cost: \$20, quantity: Varied and subject to change based on training and operational usage.** 40mm crushable foam projectile containing oleoresin capsicum (OC) powder. Munition can be used to incapacitate a single subject or control violent criminal behavior. Uses pain compliance with the effects of an irritant powder.
- ix. **Defense Technology Direct Impact 40mm Extended Range OC Crushable Foam round, cost: \$20, quantity: Varied and subject to change based on training and operational usage.** 40mm crushable foam projectile containing oleoresin capsicum (OC) powder. Munition can be used to incapacitate a single subject or control violent criminal behavior. Uses pain compliance with the effects of an irritant powder.
- x. **Defense Technology, 40mm Muzzle Blast OC, cost: \$20, quantity: Varied and subject to change based on training and operational usage.** Oleoresin capsicum (OC) device used to control violent criminal behavior for the immediate and close deployment of chemical agent. It can also be employed in tactical operations such as barricaded subjects for area denial, area contamination, and a means of contaminating crawl spaces and attics.
- xi. **Defense Technology 40mm Warning/Signaling munition, 50 meter, cost: \$38, quantity: Varied and subject to change based on training and operational usage.** Intended for use in situations where stand-off distance is desired, giving the operator the ability to engage violent criminal behavior, vehicles, or vessels. Launched from a 40mm platform, the munitions deflagrate at a set distance of 50 meters and deliver 170dB of sound.
- xii. **Defense Technology 40mm Warning/Signaling munition, 100 meter, cost: \$38, quantity: Varied and subject to change based on training and operational usage.** Intended for use in situations

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where stand-off distance is desired, giving the operator the ability to engage violent criminal behavior, vehicles, or vessels.

- xiii. **Defense Technology 40mm Ferret Rounds, cost: \$16, quantity: Varied and subject to change based on training and operational usage.** The Ferret® 40mm 2-chlorobenzylidene malononitrile (CS) round is a frangible projectile filled with chemical agent. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers the .16 oz. agent payload inside a structure.

- xiv. **Defense Technology 40mm 32-caliber rubber balls, cost: \$22, quantity: Varied and subject to change based on training and operational usage.** Used to stop violent criminal behavior, the round contains approximately 130 32-caliber rubber balls utilizing smokeless powder as a propellant.

- b. Purpose

To limit the escalation of conflict where lethal force is prohibited or undesirable. Situations for use of less lethal systems may include, but are not limited to:

- i. Self-destructive, dangerous and/or combative individuals.
- ii. Riots and incidences of violent criminal behavior.
- iii. Circumstances where a tactical advantage can be obtained.
- iv. Vicious animals.

- c. Authorized Use

Only sworn personnel who have received POST certification in the use of chemical agents are authorized to use chemical agents.

- d. Expected Life Span

- i. Launchers – 25 years.
- ii. Munitions – 5 years from date of manufacture.

- e. Fiscal Impact

Annual maintenance is approximately \$50 for each launcher.

- f. Training

Sworn members utilizing 40mm less lethal chemical agents or impact rounds are trained by POST-certified less lethal and chemical agents instructors.

- g. Legal and Procedural Rules

Use is established by SBSO Lexipol policy §300 (Use of Force) and §308.5 (Kinetic Energy Projectiles).

- 13. **Chemical Agents** – Canisters containing chemical agents that are released when deployed. 2-chlorobenzylidene malononitrile (CS), commonly referred to as tear gas, causes temporary irritation of the eyes and the mucosal surface of the respiratory tract. Oleoresin capsicum (OC), commonly referred to as pepper spray, causes irritative symptoms to the skin, eyes, and respiratory system.

- a. Description, quantity, capabilities, and purchase cost

- i. **Defense Technology Stinger Rubber Ball OC Grenade, cost: \$40, quantity: Varied based on training and operational usage.** The Stinger OC grenade is a maximum effect device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and OC. Used to stop violent criminal behavior.
- ii. **Defense Technology Spede-Heat CS Grenade, cost: \$28, quantity: Varied and subject to change based on training and**

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- operational usage.** The Spede-Heat™ CS Grenade is a high volume, continuous burn canister that expels its payload in approximately 20-40 seconds.
- iii. **Defense Technology Spede-Heat OC Grenade, cost: \$39, quantity: Varied and subject to change based on training and operational usage.** The Spede-Heat OC is a high volume, continuous burn grenade that expels its payload in 20-40 seconds.
 - iv. **Defense Technology Triple Chaser, cost: \$32, quantity: Varied and subject to change based on training and operational usage.** The Triple-Chaser® CS consists of three separate canisters pressed together with separating charges. When deployed, the canisters separate and land approximately 20 feet apart allowing increased area coverage in a short period of time. This grenade can be hand thrown or launched from a fired delivery system.
 - v. **Defense Technology Han-Ball, cost: \$31, quantity: Varied and subject to change based on training and operational usage.** The Han-Ball™ CS Grenade is an outdoor use grenade expelling its payload in approximately 15-20 seconds.
 - vi. **Combined Tactical Solutions, Baffled CS Grenade, cost: \$33, quantity: Varied and subject to change based on training and operational usage.** Pyrotechnic CS grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.
 - vii. **Defense Technology Aerosol OC Fogger, cost: \$16, quantity: Varied and subject to change based on training and operational usage.** The 6 oz. OC Aerosol Grenade will deliver its payload of 1.3% OC in 20-25 seconds. This is an atomized mist which enhances the pungent 1.3% OC formulation. Used for area denial areas like attics and garages.
 - viii. **Defense Technology Stinger 32 Caliber Rubber Balls with CS, cost: \$44, quantity: Varied and subject to change based on training and operational usage.** A device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and CS. Used to stop violent criminal behavior.
 - ix. **Defense Technology Stinger 32 Caliber Rubber Balls with OC, cost: \$45, quantity: Varied and subject to change based on training and operational usage.** A device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and OC. Used to stop violent criminal behavior.
 - x. **Defense Technology OC Vapor Aerosol Grenade, cost: \$43, quantity: Varied and subject to change based on training and operational usage.** Delivers a high concentration of OC in a powerful mist. The grenade is designed for indoor use in confined areas.
 - xi. **Defense Technology Riot Control Continuous Discharge OC Grenade, cost: \$37, quantity: Varied and subject to change based on training and operational usage.** Designed for outdoor use in violent criminal behavior situations with a high volume of continuous burn.

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- xii. **Defense Technology Riot Control Continuous Discharge CS Grenade, cost: \$32, quantity: Varied and subject to change based on training and operational usage.** Designed for outdoor use in violent criminal behavior situations with a high volume of continuous burn.

- b. Purpose

To limit the escalation of conflict where lethal force is prohibited or undesirable. Situations for use of less lethal systems may include, but are not limited to:

- i. Self-destructive, dangerous and/or combative individuals.
- ii. Riots and incidences of violent criminal behavior.
- iii. Circumstances where a tactical advantage can be obtained.
- iv. Vicious animals.

- c. Authorized Use

Only sworn personnel who have received POST certification in the use of chemical agents are authorized to use chemical agents.

- d. Training

Sworn members utilizing chemical agents are certified by POST less lethal and chemical agent instructors.

- e. Expected Life Span

5 years from date of manufacture.

- f. Fiscal Impact

No annual maintenance.

- g. Legal and Procedural Rules

Use is established by SBSO Lexipol policy §300 (Use of Force) and §308 (Control Devices and Techniques).

14. PepperBall – A device that discharges irritant projectiles.

- a. Description, quantity, capabilities, and purchase cost

- i. **PepperBall SA200 Launcher, cost: \$500, quantity: 17.** Hopper fed multiple shot capable, 0.68 X .72 caliber semi-automatic launcher.
- ii. **PepperBall FTC Basic Launcher, cost: \$500, quantity: 5.** Hopper fed multiple shot capable, 0.68 X .72 caliber semi-automatic launcher.
- iii. **PepperBall Carbine Sx Launcher, cost: \$500, quantity: 4.** Hopper fed multiple shot capable, 0.68 X .72 caliber semi-automatic launcher.
- iv. **PepperBall Munitions, Live Rounds, cost: \$1.90 per round, quantity: Varied and subject to change based on training and operational usage.** Live projectiles contain 2% pelargonic acid vanillylamide (PAVA) powder.
- v. **PepperBall Munitions, Inert Rounds, cost: \$0.73 per round, quantity: Varied and subject to change based on training and operational usage.** Inert projectiles contain a harmless, scented powder utilized for training, qualifications, and direct impact when chemical exposure is not desired.

- b. Purpose

To limit the escalation of conflict where lethal force is prohibited or undesirable. Situations for use of less lethal systems may include, but not

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limited to:

- i. Self-destructive, dangerous and/or combative individuals.
- ii. Riots and incidences of violent criminal behavior.
- iii. Circumstances where a tactical advantage can be obtained.
- iv. Vicious animals.

c. Authorized Use

Only sworn personnel who have been trained in the use of PepperBall launchers are authorized to use these less lethal weapon systems.

d. Expected Life Span

- i. PepperBall launchers – 10 years
- ii. PepperBall munitions – 2 years from date of manufacture

e. Fiscal Impact

Annual maintenance is approximately \$50 per PepperBall launcher.

f. Training

Personnel who have successfully completed a Department-approved training course shall be authorized to use kinetic energy projectiles and / or PepperBall. Qualifications will be conducted in accordance with Santa Barbara Sheriff's Office Lexipol Policy Manual.

g. Legal and Procedural Rules

Use is established by SBSO Lexipol policy §300 (Use of Force) and §308 (Control Devices and Techniques).

15. Less Lethal Shotgun – Used to deploy a less lethal 12-gauge round.

a. Description, quantity, capabilities, and purchase cost

i. **Remington 870 Less Lethal Shotgun, cost: \$600, quantity: 23**

Remington 870 12-gauge shotgun with “orange” buttstock and forend. Designed for riot and tactical situations.

ii. **Integrity Ballistics Burns 1401, cost: \$5.50 per round, quantity: Varied and subject to change based on training and operational usage.** 12-gauge polymer less lethal round in orange shell designed to “pancake” on impact.

b. Purpose

To limit the escalation of conflict where use of lethal force is prohibited or undesirable.

c. Authorized Use

Situations for use of the less lethal weapon systems may include, but are not limited to:

- i. Self-destructive, dangerous and/or combative individuals.
- ii. Riots and incidences of violent criminal behavior.
- iii. Circumstances where a tactical advantage can be obtained.
- iv. Vicious animals.

d. Expected Life Span

- i. Remington 870 Less Lethal Shotgun – 10 years
- ii. Burns 1401 round – 5 years

e. Fiscal Impact

Annual maintenance is approximately \$50 for each shotgun.

f. Training

All sworn personnel are trained in the 12-gauge less lethal shotgun by in-service training.

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g. Legal and Procedural Rules

Use is established by SBSO Lexipol policy §300 (Use of Force) and §308.5 (Kinetic Energy Projectiles).

16. Distraction Devices – Used for distracting dangerous suspects during assaults, hostage rescue, room entry or other high-risk situations. Commonly referred to as flash bangs or sting ball.

a. Description, quantity, capabilities, and purchase cost

- i. **Defense Technology Flash Bangs, cost: \$45, quantity: Varied based on training and operational usage.** The Tactical Diversionary Device Non-Reloadable is a compact unit designed around a 6.5-gram water-resistant charge, capable of producing an effective, yet reduced 162 decibel sound level.
- ii. **Combined Tactical Solutions Flash Bangs, cost: \$43, quantity: Varied and subject to change based on training and operational usage.** The 7290 produces a 175 decibel sound level and 6-8 million candela of light output. The patented design of the 7290 incorporates a porting system that eliminates movement of the body at detonation even if the top or bottom of the device should be in contact with a hard surface. Flash Bangs are used by SET during tactical incidents such as barricaded suspects, hostage rescue, and high-risk warrants. Flash bangs are also used by the jail's Special Operations Response Team (SORT) in response to violent disturbances in custody. Flash bangs are an ATF-controlled Class-C explosive device.
- iii. **Defense Technology, Stinger 32 Caliber Rubber Ball Grenade, cost: \$40, quantity: Varied and subject to change based on training and operational usage.** Used as a maximum effect device that delivers three stimuli for psychological and physiological effects: rubber pellets, light, and sound. Used to stop violent criminal behavior.
- iv. **Defense Technology Inert Rubber Ball Blast Grenade, cost: \$40, quantity: Varied and subject to change based on training and operational usage.** The inert rubber ball blast grenade can be used effectively in both training and violent criminal behavior management situations. It simulates the dispersion of riot control agents in a training environment, but without the chemical agent exposure.

b. Purpose

To produce atmospheric over-pressure and brilliant white light. Can cause short-term (6-8 seconds) of physiological/psychological sensory deprivation to give law enforcement personnel a tactical advantage.

c. Authorized Use

Flash bangs shall only be used by:

- i. Sworn personnel who have been trained in their proper use.
- ii. In hostage rescue and barricaded suspect situations.
- iii. High risk search/arrest warrant services where there may be extreme hazards to personnel.
- iv. During other high-risk situations where their use would enhance the safety of the community, law enforcement personnel, and the suspect.
- v. During training exercises.

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- d. Expected Life Span
5 years from date of manufacture.
- e. Fiscal Impact
No annual maintenance.
- f. Training
Use is limited to sworn personnel who have attended training by POST certified instructors.
- g. Legal and Procedural Rules
Use is established by SBSO Lexipol policy §300 (Use of Force).

17. Launching Cup – A delivery device that attach to 12 gauge less lethal shotguns which allow law enforcement to launch canisters of chemical agents.

- a. Description, quantity, capabilities, and purchase cost
 - i. **CTS LC5 5 series (52 series canister grenade) launching cup, cost: \$178, quantity: 1.** The LC5 Launching Cups are designed for the 5200 series grenades. The cups can be attached to most 12-gauge shotguns and launched with the CTS 2600 launching cartridge.
 - ii. **Combined Tactical Solutions (CTS), Baffled CS Grenade, cost: \$33, quantity: Varied and subject to change based on training and operational usage.** Pyrotechnic CS grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.
 - iii. **260/1210 12 gauge muzzle bang/launching cartridge, cost \$6 each, quantity: Varied and subject to change based on training and operational usage.** The 12-Gauge Muzzle Bang/Launching Cartridge incorporates an opaque shell and utilizes black powder as the propellant. This cartridge can be used alone as a Muzzle Bang for crowd management or for propelling grenades when using the LC5 Launching Cup.
- b. Purpose
To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
- c. Authorized Use
Situations for use of this less lethal weapon system may include, but not limited to:
 - i. Self-destructive, dangerous and/or combative individuals.
 - ii. Riots and incidences of violent criminal behavior.
 - iii. Circumstances where a tactical advantage can be obtained.
 - iv. Vicious animals.
- d. Expected Life Span
25 years for launching cup.
- e. Fiscal Impact
No annual maintenance.
- f. Training
Personnel using launching cups are trained in their use by POST-certified chemical agents instructors.
- g. Legal and Procedural Rules
Use is established by SBSO Lexipol policy §300 (Use of Force) and the SET procedural manual.

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18. Rifles and Ammunition – Shoulder-mounted firearms allowing greater precision and accuracy at long distances. These may be department-owned or privately-owned weapons authorized for agency use.

a. Description, quantity, capabilities, and purchase cost

- i. **Colt AR15 A2 Government Carbine patrol rifle, cost: \$884, quantity: 131.** Semi-automatic 16" barreled patrol rifles that fire an intermediate power cartridge (.223/5.56mm).
- ii. **Colt AR15 patrol rifle, cost: no initial cost, quantity: 55.** Semi-automatic 16" barreled patrol rifles that fire an intermediate power cartridge (.223/5.56mm). These rifles are privately owned and carried/used by SBSO.
- iii. **Colt M4 Carbine LE6933 rifle, cost: \$1,200 per rifle, quantity: 14.** A semi-automatic 11.5" barreled rifle that fires an intermediate power cartridge (.223/5.56mm). These rifles are issued to Motors and the Special Investigations Bureau.
- iv. **Colt M16A1 rifle, cost: Received from military at no cost. Cost to outfit rifles for law enforcement use: \$14,000, quantity: 10.** A select-fire rifle that fires an intermediate power cartridge (.223/5.56mm). Assigned to the Special Enforcement Team.
- v. **Daniel Defense DDM4 Version 7 .223 rifle, cost: \$1,870 per rifle, quantity: 22.** A semi-automatic 11.5" barreled rifle that fires an intermediate-power cartridge (.223/5.56mm). Assigned to the Special Enforcement Team.
- vi. **Surgeon bolt action .308 Concealable Sniper Rifle (CSR), cost: \$5,000 per rifle, quantity: 5.** 16" barreled rifle chambered in .308 with Accuracy International AXAICS chassis. Assigned to the Special Enforcement Team.
- vii. **Barrett single shot bolt-action .416 caliber rifle, no initial cost, quantity: 1.** Rifle is capable of immobilizing vehicles, penetrating barriers, and disrupting explosives at great distances. Rifle was donated to the Special Enforcement Team.
- viii. **Ruag Ammotech USA 51 grain frangible .223 ammunition, cost: \$0.57 per round, quantity: Varied based on training and operational usage.** Rifle ammunition used for training and qualification.
- ix. **Winchester 55 grain frangible .223 ammunition, cost: \$0.63 per round, quantity: Varied and subject to change based on training and operational usage.** Rifle ammunition used for training and qualification.
- x. **Winchester Ranger 64 grain Power Point .223 ammunition, cost: \$0.53 per round, quantity: Varied and subject to change based on training and operational usage.** Duty ammunition for patrol and specialty unit rifles.
- xi. **Winchester 556 55 grain FMJ .223 ammunition, cost: \$0.29 per round, quantity: Varied and subject to change based on training and operational usage.** Duty ammunition for patrol and specialty unit rifles.

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- xii. **Federal 62 grain bonded SP .223 ammunition, cost: \$1.15 per round, quantity: Varied and subject to change based on training and operational usage.** Duty ammunition for patrol and specialty unit rifles.
 - xiii. **Ruag Swiss P .308 caliber 168 grain target, cost: \$1.32 per round, quantity: Varied and subject to change based on training and operational usage.** A round for highly accurate target shooting in competition and training. A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets.
 - xiv. **Ruag Swiss P .308 caliber 167 grain Styx action, cost: \$2.12 per round, quantity: Varied and subject to change based on training and operational usage.** The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing stopping power on soft targets and is direction stable.
 - xv. **Ruag Swiss P .308 196 grain armor piercing, cost: \$3.65 per round, quantity: Varied and subject to change based on training and operational usage.** The tungsten carbide core is much harder and more ductile than most targets.
 - xvi. **Barrett .416 caliber 395 grain 10 round box, cost: \$7.50 per round, quantity: Varied and subject to change based on training and operational usage.** The .416 Barrett is a large-caliber, centerfire rifle cartridge, designed to improve the long-range ballistics of the .50 BMG cartridge. It uses a 400-grain bullet and a case with a 200-grain capacity. The case length is 3.27 inches, and the overall length is 4.58 inches.
 - xvii. **Ruag Swiss P .308 caliber 163 grain tactical, cost: \$3.65 per round, quantity: Varied and subject to change based on training and operational usage.** Ammunition utilized for targets behind angled glass. No projectile deflection and fragmentation ensure the safety of bystanders.
- b. Purpose
Rifles and rifle ammunition are used to address a threat with more precision and accuracy than a handgun.
 - c. Authorized Use
Only sworn personnel that are POST-certified are authorized to deploy rifles.
 - d. Expected Life Span
 - i. Rifles – 25 years
 - ii. Ammunition – 10 years
 - e. Fiscal Impact
Annual maintenance is approximately \$20 for each rifle.
 - f. Training
Prior to deploying a rifle, sworn personnel must be certified by POST instructors in the operation of the rifle. All members that operate any rifle are required to pass a range qualification once a year.
 - g. Legal and Procedural Rules
Use is established by SBSO Lexipol policy §300 (Use of Force) and §312 (Firearms).