

Port of San Diego Harbor Police Department (SB) 1421 Military Equipment List

This list is organized in the order set forth in Government Code Section 7070(c):

A. Unmanned remotely piloted, powered aerial or ground vehicles

1. **Small Unmanned Aircraft Systems (sUAS):** An unmanned aircraft of any type that is capable of sustaining directed flight, whether pre-programmed or remotely controlled, and all the supporting or attached systems designed for gathering information through imaging, recording or by any other means.

Capability: sUAS can support first responders in any hazardous incident which would benefit from an aerial perspective. These uses could include search and rescue, barricaded suspects or high-risk tactical operations, disaster response, and video and photographic documentation of crime scenes.

Usage: The guidelines for the use of sUAS are outlined in POLICY 613 – Unmanned Aerial Systems Operations.

Training Requirements: The training requirements for the operation of sUAS are outlined in POLICY 613 –Unmanned Aerial Systems Operations.

Fiscal Impact: See Appendix B

Lifespan: Approximately five (5) years.

The Department currently possesses the following types of sUAS:

- a. **DJI Phantom 4 Pro** (Quantity: See Appendix A)

Manufacturer: DJI

Manufacturer Description: An updated camera is equipped with a 1-inch 20-megapixel sensor capable of shooting 4K/60fps video and Burst Mode stills at 14 fps. The adoption of titanium alloy and magnesium alloy construction increases the rigidity of the airframe and reduces weight, making the Phantom 4 Pro similar in weight to the Phantom 4. The Flight Autonomy system adds dual rear vision sensors and infrared sensing systems for a total of 5-direction of obstacle sensing and 4-direction of obstacle avoidance.

(Description source: <https://www.dji.com/phantom-4-pro?from=p4p-or-p4a>)

- b. **DJI Spark** (Quantity: See Appendix A)

Manufacturer: DJI

Manufacturer Description: Meet Spark, a mini drone that features all of DJI's signature technologies, allowing you to seize the moment whenever you feel

inspired. With intelligent flight control options, a mechanical gimbal, and a camera with incredible image quality, Spark empowers you to push your creative boundaries.

(Description source: [Spark - DJI](#))

c. **LOKI Mk2** (Quantity: See Appendix A)

Manufacturer: Sky Hero

Manufacturer Description: Designed and built-in conjunction with several of the world's top counter terrorism teams, LOKI Mk2 solves all problems associated with the tactical use of commercial UAS.

Purpose built for close quarter indoor tactical scouting missions, LOKI Mk2 features a highly sensitive Day-Night + IR sensor camera giving it the ability to fly and see in complete darkness.

Mk2 Features

Forward-facing, .0008 lux day/night camera with 150° wide angle field of view. On board extremely sensitive HD microphone

Integrated flight stability/hover system using only onboard sensors

Front and bottom selectable and dimmable IR LED's

Turtle mode allowing the drone to automatically self-right in the event of a crash. Integrated connector for additional payloads, sensors, and actuators.

Ruggedized, user repairable cloverleaf body design

(Description Source: [Loki MK2 \(aardvarktactical.com\)](#))

d. **Parrot Anafi Thermal** (Quantity: See Appendix A)

Manufacturer: Parrot

Manufacturer Description: To balance the resolutions of the thermal image and visible image, and therefore benefit from information not visible in thermal, the displayed image is a fusion of the information from the two cameras.

Stabilized on three axes, the optical unit of ANAFI Thermal combines an infra-red sensor to the electro-optics, making it possible to identify temperatures between -10° and +400°. Thanks to the FLIR Lepton 3.5 module, it is possible to set the absolute temperature of each pixel.

(Description source: <https://www.parrot.com/us/drones/anafi-thermal>)

e. **Parrot Anafi** (Quantity: See Appendix A)

Manufacturer: Parrot

Manufacturer Description: Stabilized on 5 axles (2 mechanical axles and 3 electronic axles), the Sony optical sensor built into ANAFI allows clear images to be taken, despite the vibrations associated with drone flights. The x3 zoom and the 180° tilt of the camera provide a detailed view of the observed target.

Foldable, light, and easily deployable, ANAFI can be set up in just a few seconds.

(Description source: <https://www.parrot.com/us/drones/anafi>)

2. **Small Unmanned Tracked Robots:** An unmanned tracked robot of any type that is capable of being remotely controlled as well as all of the supporting or attached systems designed for gathering information through imaging, recording or by any other means.

Capability: Small Unmanned Tracked Robots can support first responders in any hazardous incident which would benefit from a ground level perspective. These uses could include barricaded suspects or high-risk tactical operations, disaster response, and use in crawl spaces or confined isolated areas to assist in searches for suspects or evidence.

Usage: Small Unmanned Tracked Robots are to be mainly used by the SWAT unit during high-risk operations. Additionally, the Weapons Training Unit operates a single tracked robot as a training aid for moving targets in range training scenarios.

Training Requirements: SWAT Officers authorized to operate tracked robots are required to successfully complete a SWAT Academy and are subject to extensive classroom and practical application training in the use of the robots. Additionally, SWAT Officers regularly train on safe robot deployment in a variety of operational settings. Weapons Training Unit personnel receive training from other members specifically to use the range training robot.

Fiscal Impact: See Appendix B

Lifespan: AVATAR – Two (2) year limited warranty. Lifespan varies on operational usage and wear.

The Department currently possesses the following types of Small Unmanned Tracked Robots:

- a. **AVATAR Tactical Robot** (Quantity: See Appendix A)

Manufacturer: Robotex

Manufacturer Description: Lightweight, modular, and one-man portable, the AVATAR is tested and recommended by the National Tactical Officers Association (NTOA).

Designed for rapid tactical missions, the robot is simple to operate and quick to deploy for searching rooms, hallways, stairwells, and confined spaces. With rubber tracks and articulating front and rear flippers, the AVATAR effortlessly climbs stairs. The AVATAR enhances the capabilities of SWAT by allowing them to quickly and safely inspect dangerous situations.

(Description source: <https://robotex.com/products/avatar-tactical-robot/>)

b. MK4 MILR (Weapons Training Unit Robot)

Manufacturer: Norther Lights Tactical

Manufacturer Description: The top-of-the-line TRACS model is the MILR unit. This model features 1/4-inch AR-500 armor plate that is designed to withstand impacts from rifle rounds. In addition, the TRACS-MILR model is equipped with heavy duty power electronics to handle additional load and high temperature environments. As with all models, the TRACS MILR comes with one 24-Volt sealed lead-acid battery pack, universal voltage battery charger, standard target mount kit, transmitter, transmitter carry case, one robot antenna, and DVD manual.

Description Source: (<http://northernlightstactical.com/product/tracs-milr-robot-target-system>)

B. Armored Personnel Carriers

1. **BearCat:** A 4X4, wheeled, armored personnel carrier capable of providing high ballistic protection, cover, limited breaching capability, and transport of officers and/or civilians at critical incidents and high-risk tactical operations.

Capability: BearCats can support first responders in any hazardous, high risk, or critical incident which would benefit from having a vehicle that provides a high level of ballistic protection.

Usage: The BearCat is to be used mainly by the SWAT unit but could be deployed by patrol in a critical incident. These uses could include active shooters, armed barricaded suspects, hostage situations, high-risk tactical operations, disaster response, officer/citizen rescues, and CBRNE (Chemical, Biological,

Radiological, Nuclear, and Explosive) attacks and detection. Additionally, it has equipment that allows for the breaching of buildings or vehicles.

Training Requirements: SWAT Officers authorized to operate the BearCat are required to successfully complete a month-long SWAT Academy. Additionally, SWAT Officers undergo a period of classroom instruction and a driving assessment.

Fiscal Impact: See Appendix B

Lifespan: Approximately 20 years depending on operational usage and wear.

The Department currently possesses the following types of BearCats:

- a. **BearCat G2** – 4 Door Model with CBRNE capability (Quantity: See Appendix A)

Manufacturer: Lenco

Manufacturer Description: The BearCat G2 provides Lenco’s proven armor system in a ruggedized off-road platform. The G2 comes standard with a heavier duty upgraded suspension and tires, rims & run flats to provide enhanced performance. The ground clearance and robust suspension allows for emergency response in most regions and natural disaster scenarios where standard armored SWAT vehicles would experience challenges.

(Description source: <https://www.lencoarmor.com/model/bearcat-g3-police-government/>)

C. Command and Control Vehicles

1. **Mobile Command Vehicles/Specialty Equipment Vehicles:** Completely self-contained command post designed to provide the Incident Commander with a mobile base of operation, and/or vehicle(s) designed to assist at command post or critical incident scenes by storing extra equipment the SWAT team may need to complete a mission.

Capability: As a mobile base of operation and a source of equipment, these vehicles contain specialized command, control, and communications equipment to assist with this mission.

Usage: Mobile Command Vehicles are to be utilized as an Incident Command Post for planned or unplanned events. The usage guidelines for Mobile Command Vehicles are outlined in department POLICY 709 – Mobile Command Vehicle and POLICY 414 Hostage and Barricade Incidents. The usage guidelines for the SWAT Special Equipment Vehicle are in accordance with POLICY 350 and 351

350 Maritime Tactical Team (SWAT) / Special Weapons and Tactics (SWAT).

Training Requirements: The training requirements for Mobile Command Vehicles are outlined in department POLICY 709 – Mobile Command Vehicle and POLICY 709 – Mobile Command Vehicle and POLICY 414 Hostage and Barricade Incidents.

Fiscal Impact: See Appendix B

Lifespan: No lifespan indicated by manufacturer. Dependent on operational usage and wear.

The Department currently possesses the following types of Mobile Command Vehicles/SWAT Special Equipment Vehicles:

- a. **SWAT Special Equipment Vehicle** (Quantity: See Appendix A)

Manufacturer: Ford

Manufacturer Description: Truck with large storage box

- b. **Mobile Command Vehicle (MCV)** (Quantity: See Appendix A)

MCV is a 27-foot Mobile Command Post Vehicle.

Manufacturer: Freightliner Model MT-45

Manufacturer Description: No manufacturer description. (Custom build)

- D. Specialized firearms and ammunition of less than .50 caliber, including assault weapons

1. **AR-15 Rifles:** A semi-automatic or select-fire shoulder-fired long gun that fires a rifle caliber cartridge. The Department-approved AR-15 style weapon system is designed to fire a .223/5.56 caliber projectile.

Capability: The rifle caliber carbine provides officers the ability to engage hostile suspects at distances generally greater than the effective distance of their handguns. Additionally, AR-15 rifles offer advantages over handguns, such as increased accuracy potential and the ability to defeat soft body armor, but are not appropriate for every situation.

Usage: The usage guidelines for AR-15 Patrol Rifles are specifically outlined in POLICY 312.3.3 – Firearms - Patrol Rifles, with general firearms guidelines under POLICY 312 – Firearms, and in POLICY 300 - Use of Force.

Training Requirements: The training requirement for AR-15 rifles is a department approved patrol rifle class. This class is generally conducted by the

Harbor Police Weapons Training Unit during new hire on-boarding. The class meets California POST guidelines.

For the SWAT Unit, the AR-15 (with Daniel Defense brand barrel) is the primary weapons system utilized by the team. SWAT Officers are required to successfully complete a SWAT Academy consisting of extensive firearms training including the AR-15. While assigned to the SWAT Team, SWAT Officers partake in regular rifle training, entry and movement training, and consistent weapons qualifications to maintain proficiency with the AR-15.

Fiscal Impact: See Appendix B

Lifespan: Colt M4 Carbine Model R0977– One (1) year warranty. Barrel life rated to approximately 12,000 rounds.

Colt Law Enforcement Carbine LE 6921 Series – One (1) year warranty. Barrel life rated to approximately 12,000 rounds.

The Department currently possesses the following types of AR-15 rifles:

a. **Colt M4 Carbine Model R0977** (Quantity: See Appendix A)

Manufacturer: Colt Manufacturing LLC

Manufacturer Description: The Colt M4 is the ONLY 5.56mm carbine in the world today that is manufactured to meet or exceed the stringent performance specifications (MILSPEC) required for acceptance and use by the U.S. Armed Forces.

(Description source: <https://www.colt.com/detail-page/colt-m4-carbine-r0977>)

b. **Colt Law Enforcement Carbine LE 6921** (Quantity: See Appendix A)

Manufacturer: Colt Manufacturing LLC

Manufacturer Description: Throughout the world today, Colt's reliability, performance, and accuracy provide our Armed Forces the confidence required to accomplish any mission. Colt's LE6920 series shares many features of its combat-proven brother, the Colt M4.

(Description source: <https://www.colt.com/detail-page/colt-le6920-carbine-223556-161-301-pmag-mbus-4-pos-stk-blk>)

c. **Colt Carbine SP1** (Quantity: See Appendix A)

[*NOTE: This rifle was the product of asset forfeiture.]

Manufacturer: Colt Manufacturing (Discontinued)

Manufacturer Description: No manufacturer description – no longer in production. This is a semi-automatic, civilian version of the AR-15 that is no longer in production. It lacks some of the later enhancements of the LE Carbine, such as a forward bolt assist or a detachable carry handle. This weapon was obtained from an arrest / seizure.

a. **Daniel Defense DDM4 V4SBR** (Quantity: See Appendix A)

Manufacturer: Daniel Defense

Manufacturer Description: The DDM4 V4S AR15 style firearm is based on a configuration that we've been providing to law enforcement as well as civilian users who demand a lightweight, durable, and dependable short barreled rifle (SBR). Built around a free-floating, Cold Hammer Forged 11.5-inch barrel, the V4 S delivers optimal maneuverability, reliability, accuracy, and terminal ballistics using a wide variety of ammunition. The 10.0 inch picatinny quad rail shields the rifle's barrel and carbine length, low profile gas block. Pairing an 11.5-inch barrel and a DDM4 Rail also ensures compatibility with a wide variety of muzzle devices and sound suppressors. The independently ambidextrous GRIP-N-RIP Charging Handle accommodates left- and right-handed shooters. This rifle also comes with the ergonomic Daniel Defense Buttstock and Pistol Grip.

(Description source: <https://danieldefense.com/ddm4-v4s.html>)

2. **.308 Bolt Action Sniper Rifles:** A bolt-action shoulder-fired rifle with precision optics that fires a .308 Winchester cartridge.

Capability: The .308 bolt action Sniper Rifle provides SWAT Snipers the ability to engage hostile suspects at great distances with precision rifle fire.

Usage: .308 bolt action Sniper Rifles are to be used exclusively by officers assigned to the SWAT Sniper Team. These rifles are typically deployed with the SWAT Sniper Team during high-risk SWAT operations and special events or instances wherein Sniper Over Watch Teams are needed.

The use of this weapons system is also governed under SWAT / Special Weapons and Tactics (SWAT) – Long Rifle / Sniper Team

Training Requirements: SWAT Snipers must successfully complete a SWAT Academy and be a member of the SWAT Team prior to being eligible for Sniper selection. SWAT Snipers must complete a rigorous SWAT Sniper Academy, attend a POST approved Basic Sniper School, and regularly train and qualify with

various weapons systems including the .308 bolt action Sniper Rifle to maintain proficiency.

Fiscal Impact: See Appendix B

Lifespan: Accuracy International – Barrel life rated to approximately 3,000 to 6,000 rounds. Lifespan varies on operational usage and wear.

Ritter & Stark –No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

- a. **Accuracy International AT LE .308 Bolt Action Rifle** (Quantity: See Appendix A)

Manufacturer: Accuracy International

Manufacturer Description: The standard model has a fixed stock with 24-inch, quick change, plain barrel. There are options for color, folding stock, barrels and suppressors and many accessories, which can be added. The AT is ideal for Law Enforcement and civilian users. (Description source: <https://www.accuracyinternational.com/ax308.html>)

- b. **Ritter &Stark SX-1 Modular Tactical Rifle/Barrel** (Quantity: See Appendix A)

Manufacturer: Ritter &Stark

Manufacturer Description: A long range shooting rifle for sport, tactical, police or military context. It has an interchangeable two barrel system with a matching bolt that locks directly inside either a barrel for .308 Winchester (7.62x51mm) or .338 Lapua (8.6x70mm) (Description source: [Ritter & Stark SX-1 MTR modular long-range rifle | GUNSweek.com](#))

3. **338 Bolt Action Sniper Rifles:** A bolt-action shoulder-fired rifle with precision optics that fires a .338 Lapua cartridge.

Capability: The .338 bolt action Sniper Rifle provides SWAT Snipers the ability to engage hostile suspects at great distances with precision rifle fire. In some situations when the .308 bolt action rifle platform would not work, such as against vehicles, thick armor, or in very high wind, the .338 platform would be utilized.

Usage: .338 bolt action Sniper Rifles are to be used exclusively by officers assigned to the SWAT Sniper Team. These rifles are typically deployed with the SWAT Sniper Team during high-risk SWAT operations and special events or instances wherein Sniper Over Watch Teams are needed.

The use of this weapons system is also governed under SWAT / Special Weapons and Tactics (SWAT) – Long Rifle / Sniper Team

Training Requirements: SWAT Snipers must successfully complete a SWAT Academy and be a member of the SWAT Team prior to being eligible for Sniper selection. SWAT Snipers must complete a rigorous SWAT Sniper Academy, attend a POST approved Basic Sniper School, and regularly train and qualify with various weapons systems including the .308 bolt action Sniper Rifle to maintain proficiency.

Fiscal Impact: See Appendix B

Lifespan: Ritter & Stark –No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

a. **Ritter & Stark SX-1 Modular Tactical Rifle** (Quantity: See Appendix A)

Manufacturer: Ritter & Stark

Manufacturer Description: A long range shooting rifle for sport, tactical, police or military context. It has an interchangeable two barrel system with a matching bolt that locks directly inside either a barrel for .308 Winchester (7.62x51mm) or .338 Lapua (8.6x70mm) (Description source: [Ritter & Stark SX-1 MTR modular long-range rifle | GUNSwEEK.com](#))

4. **.223 Caliber or 5.56mm Rifle Ammunition:** Rifle ammunition manufactured specifically for rifles chambered in 5.56mm or .223 Remington. Currently there are two types of .223/5.56mm caliber rifle ammunition in use operationally by the Department.

Capability: .223 caliber or 5.56mm rifle ammunition used in conjunction with an AR-15 type rifle provides officers the ability to engage hostile suspects at distances generally greater than the effective distance of their handguns. Rifle ammunition fired from AR-15 rifles offer advantages over handguns, such as increased accuracy potential and the ability to defeat soft body armor but are not appropriate for every situation.

Usage: The usage guidelines for AR-15 Patrol Rifles are specifically outlined in 312.3.3 – Firearms - Patrol Rifles, with general firearms guidelines under POLICY 312 – Firearms, and in POLICY 300 - Use of Force,

Training Requirements: The initial training requirements for .223 caliber or 5.56mm rifle ammunition use is a department approved patrol rifle class. This class is generally conducted by the Harbor Police Weapons Training Unit during new hire on-boarding. The class meets California POST guidelines. Follow-on continuous range training is additionally conducted.

Fiscal Impact: See Appendix B

Lifespan: Approximately 10-year shelf life.

The Department currently possesses the following types of .223 caliber or 5.56mm rifle ammunition:

- a. **Practice Ammunition 5.56 X 45mm / .223 55 grain full metal jacket** (Quantity: See Appendix A)

Manufacturer: Federal, Federal American Eagle, and Winchester

Manufacturer Description: Federal, American Eagle, or Winchester rifle ammunition offers consistent, accurate performance at a price that's perfect for high-volume shooting. The loads feature quality bullets, reloadable brass cases and dependable primers.

(Description source: <https://www.federalpremium.com/rifle/american-eagle/american-eagle-rifle/11-AE223.html>,
<https://www.federalpremium.com/rifle/american-eagle/american-eagle-rifle/11-XM193X.html>,
<https://winchester.com/Products/Ammunition/Rifle/USA/USA223LKY>

- b. **Speer LE Gold Dot .223 Remington 62 grain Rifle Ammunition** (Quantity: See Appendix A)

Manufacturer: Speer

Manufacturer Description: SPEER LE Gold Dot Duty Rifle brings proven bullet technology to rifle platform. The Gold Dot bullet was the first high performance, bonded-core bullet available in handgun ammunition, and has since set the bar for duty ammunition. The nation's number one law enforcement option is now available in rifle ammunition for agencies everywhere. These specially designed loads bring law enforcement rifle ammunition to the next level. Gold Dot rifle bullets are optimized to ensure expansion out of barrels down to 10" at a wide variety of velocities out to 200 yards. This kind of performance greatly increases the capabilities of duty rifles and gives law enforcement personnel a distinct advantage when it matters most. In addition, these new loads boast outstanding feeding in short, very short and standard-length AR platforms.

(Description source: <http://le.vistaoutdoor.com/ammunition/speer/rifle/details.aspx?id=24445SP>)

5. **.308 Caliber Rifle Ammunition:** Rifle ammunition manufactured specifically for rifles chambered in .308 Winchester. Currently there are various types of .308 Winchester caliber rifle ammunition in use by the Department.

Capability: .308 Winchester rifle ammunition used in conjunction with a rifle chambered in .308 Winchester provides SWAT Snipers the ability to engage hostile suspects at great distances with precision rifle fire.

Usage: .308 Winchester ammunition in conjunction with rifles chambered in .308 Winchester is to be used exclusively by officers assigned to the SWAT Sniper Team. This ammunition and .308 rifles are typically deployed with the SWAT Sniper Team during high-risk SWAT operations and special events or instances wherein Sniper Over Watch Teams are needed.

The usage guidelines for .308 Winchester ammunition used in conjunction with rifles chambered in .308 Winchester are outlined in POLICY SWAT / Special Weapons and Tactics (SWAT) – Long Rifle / Sniper Team

Training Requirements: SWAT Snipers must successfully complete a SWAT Academy and be a member of the SWAT team to be eligible for Sniper selection. SWAT Snipers must complete a rigorous SWAT Sniper Academy, attend a 40-hour POST approved Basic Sniper School, and regularly train and qualify with various weapons systems chambered in .308 Winchester including the .308 bolt action Sniper rifle and .308 semi-automatic rifle to maintain proficiency.

Fiscal Impact: See Appendix B

Lifespan: Approximately 10-year shelf life.

The Department currently possesses the following types of .308 Winchester ammunition:

a. **Federal Premium Tactical TRU .308 Winchester Ammunition (T308T)**
(Quantity: See Appendix A)

Manufacturer: Federal

Manufacturer Description: Custom made for your Urban Rifle, Tactical TRU was specifically designed for use in semi-automatic rifles or "Urban Rifles," such as variants of the M-16 or AR-15. TRU bullets are specifically engineered, ranging from fragmenting designs for tactical entry to deeper penetrating bullets for patrol. This is particularly important in today's urban settings.

(Description source:

<https://le.vistaoutdoor.com/ammunition/federal/rifle/details.aspx?id=1017>)

b. **Federal Premium Tactical Bonded Tip .308 Winchester Ammunition (LE308TT2)** (Quantity: See Appendix A)

Manufacturer: Federal

Manufacturer Description: Designed to defeat the toughest barriers with minimal deflection, Tactical Bonded Tip has quickly become the choice for some of the most intense conditions. The .308 Win. Tactical Bonded Tip achieves accuracy and terminal performance unmatched by other ammunitions.

(Description source:

<https://le.vistaoutdoor.com/ammunition/federal/rifle/details.aspx?id=680>)

- c. **Swiss P Armor Piercing .308 Winchester 196 Grain** (Quantity: See Appendix A)

Manufacturer: Swiss P

Manufacturer Description: The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armor. Because the core does not break apart during penetration it transfers outstanding residual energy to the target. Using only high-quality raw materials and producing within tight tolerances ensure an identical point of impact from batch to batch. A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

(Description source: <https://www.swiss-p.com/en/Products/308-Win-SWISS-P-Armour-Piercing-127-g-196-gr>)

6. **.338 Caliber Rifle Ammunition:** Rifle ammunition manufactured specifically for rifles chambered in .338 Lapua. Currently there are various types of .338 Winchester caliber rifle ammunition in use by the Department.

Capability: .338 Lapua rifle ammunition used in conjunction with a rifle chambered in .338 provides SWAT Snipers the ability to engage hostile suspects at great distances with precision rifle fire. It also allows for greater penetration and speed, which can overcome high wind, heavy armor, and/or vehicle engine blocks.

Usage: .338 Lapua ammunition in conjunction with rifles chambered in .338 Lapua is to be used exclusively by officers assigned to the SWAT Sniper Team. This ammunition and .338 rifles are typically deployed with the SWAT Sniper Team during high-risk SWAT operations and special events or instances wherein Sniper Over Watch Teams are needed.

The usage guidelines for .338 Lapua ammunition used in conjunction with rifles chambered in .338 are outlined in POLICY SWAT / Special Weapons and Tactics (SWAT) – Long Rifle / Sniper Team

Training Requirements: SWAT Snipers must successfully complete a SWAT Academy and be a member of the SWAT team to be eligible for Sniper selection. SWAT Snipers must complete a rigorous SWAT Sniper Academy, attend a department approved Basic Sniper School, and regularly train and qualify with weapons systems chambered in .338 Lapua including the .338 bolt action Sniper rifle to maintain proficiency.

a. **Federal Ammunition .338 Lapua Magnum Sierra Match King 250 Grain**

Manufacturer: Federal Ammunition

Manufacturer Description: Long range isn't just a distance. It's a state of mind. A dedication to push further. And its why Federal Premium® builds Gold Medal® rifle loads. The exclusive primer design provides the best sensitivity and most consistent ballistics in the industry. The precision-built Sierra® MatchKing® bullet is shot to win more matches than any other rifle bullet. It's the only choice for the world's most elite shooters. This cartridge is designed for open air targets.

Source: www.federalpremium.com

b. **Federal Ammunition .338 American Eagle Training Round**

Manufacturer: Federal Ammunition

Manufacturer Description: American Eagle® rifle ammunition offers consistent, accurate performance at a price that's perfect for high-volume shooting. The loads feature quality bullets, reloadable brass cases and dependable primers.

Source: www.federalpremium.com

c. **Federal Ammunition .338 Trophy**

Manufacturer: Federal Ammunition

Manufacturer Description: Copper bullet construction provides up to 99 percent weight retention for the deepest penetration in an expanding bullet. Tipped bullet cavity is optimized for expansion across a broad velocity range. Grooved bullet shank for increased accuracy across a wide range of firearms. Polymer tip and boat-tail design increase the ballistic coefficient for higher downrange velocity, energy and less bullet drop.

Source: www.federalpremium.com

E. Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers

1. **Diversionsary Devices aka Flashbangs:** Canisters that emit a loud noise and bright light.

Capability: Diversionsary Devices are capable of releasing large amounts of stored energy in the form of heat, light, pressure, and noise. They are intended to

temporarily distract, confuse, and disorient subjects. They can also be used as “attention-getting” devices.

Usage: Diversionary Devices are to be used exclusively by the SWAT Unit. Diversionary Devices can be used in high-risk tactical operations as an attention getting device. They can also be used during high-risk warrants, hostage rescue incidents, and some mobile field force incidents to provide an added degree of officer safety by disorienting subjects.

The usage of Diversionary Devices is also governed under HPD Policy 350 SWAT.

Training Requirements: SWAT Officers must successfully complete a SWAT Academy and are subject to ongoing extensive classroom and practical application training in the use of the Diversionary Devices. Additionally, SWAT Officers regularly train on safe device deployment in a variety of operational settings.

Fiscal Impact: See Appendix B

Lifespan: ALS Diversionary Devices – Five (5) year limited warranty. Five (5) year shelf life.

The Department currently possesses the following types of Diversionary Devices:

- a. **ALS09NR (Flashbang)** (Quantity: See Appendix A)
[*NOTE: This model is being phased out for use by the SWAT Unit and has been relegated for training use only. This is non-operational diversionary device.]

Manufacturer: ALS Defense

Manufacturer Description: The ALS09NR is a single use tactical diversionary device that produces 174 dB at 5 feet, and emits 2-4 million candela. In addition to the light and sound, the ALS09NR produces a significant pressure wave that adds to the disorienting physiological effects. The ALS09NR is non-reloadable.

(Description source: <https://www.lesslethal.com/products/distraction-diversion/als09nr-detail>)

2. **Chemical Agents and Chemical Agent Delivery Devices:** Compounds, devices, and delivery systems utilized by SWAT and not covered by - HPD POLICY 300 Use Of Force. Compounds can include irritants such as

Chlorobenzalmalononitrile (CS) or an inflammatory agent such as Oleoresin Capsicum (OC) or Pava (synthetic OC). Chemical agents can be liquid, powder, or gaseous. Delivery systems can be pyrotechnic, blast dispersion, OC Fogger, or aerosol.

Chemical agent delivery devices consist of the following:

Gas Ram: A metal device resembling a handheld pointed battering ram that can be loaded with a chemical agent canister. The gas ram can be used to introduce chemical agents into a location by piercing the wall, door, or roof of a structure.

Burn Safe: A cylindrical metal container designed to contain a pyrotechnic chemical agent canister and reduce fire hazard upon deployment into a structure.

Capability: Depending on the delivery method, chemical agents are capable of being introduced in close proximity, or from a distance. Depending on the type of delivery system and/or quantity, chemical agents can be used to saturate individual suspects, violent crowds, or areas of varied size.

Usage: Chemical agents are to be used exclusively by the SWAT Unit. Generally, during high-risk tactical incidents chemical agents can be used to dislodge a suspect from a stronghold location with the least possible danger to citizens, police, and the suspect. Chemical agents can also be used to prevent an armed suspect from accurately firing at citizens and/or officers. They can also be used in limited instances during civil unrest to disperse violent crowds.

Chemical agents are classified as specialty munitions and specific uses are governed under HPD POLICY 308-Control Devices and Techniques and 350 Maritime Tactical Team (SWAT) / Special Weapons and Tactics (SWAT)

Training Requirements: SWAT Officers authorized in the use of chemical agents have completed extensive chemical agent training upon successfully completing a SWAT academy. SWAT Officers receive regular training on the deployment and use of chemical agents. SWAT Officers are required to pass annual qualifications with the use of chemical agents and chemical agent delivery systems in order to maintain proficiency.

Fiscal Impact: See Appendix B

Lifespan: Combined Tactical Systems (CTS) Chemical Agent Canisters and Munitions – Five (5) year limited warranty. Five (5) year shelf life.

Defense Technology Chemical Agent Canisters and Munitions - Five (5) year limited warranty. Five (5) year shelf life.

First Defense Aerosol Grenade by Defense Technology
Five (5) year limited warranty. Five (5) year shelf life.

ALS Canister and Munitions – Five (5) year limited warranty. Five (5) year shelf life.

The Department currently possesses the following types of chemical agents:

- a. **Chemical Agent Flameless Tri-Chamber CS - Model: 1032** (Quantity: See Appendix A)

Manufacturer: Defense Technology/Safariland Group

Description: The Flameless Tri-Chamber CS Grenade allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The grenade is designed primarily for indoor tactical situations to detect and/or dislodge a barricaded subject. This grenade will deliver approximately .70 oz. of agent during its 20-25 seconds burn time.

(Description source: [Flameless Tri-Chamber CS Grenade - Defense Technology \(defense-technology.com\)](http://defense-technology.com))

- b. **Chemical Agent CS Triple Chaser – Model: 1026 Triple Chaser Separating Canister CS** (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Triple-Chaser® CS consists of three separate canisters pressed together with separating charges between each. 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. The grenade is 6.5 in. by 2.7 in. and holds an approximately 3.2 oz. of active agent payload. It has an approximate burn time of 20-30 seconds.

(Description source: <https://www.defense-technology.com/product/triple-chaser-separating-canister-cs/>)

- c. **Chemical Agent CS SPEDE-HEAT Continuous Discharge Chemical Grenade CS -Model: 1072** (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Spede-Heat™ CS Grenade is a high volume, continuous burn it expels its payload in approximately 20-40 seconds. The payload is discharged through four gas ports on top of the canister, three on

the side and one on the bottom. This launchable grenade is 6.12 in. by 2.62 in. and holds approximately 2.9 oz. of active agent.

(Description source: <https://www.defense-technology.com/product/spede-heat-continuous-discharge-chemical-grenade-cs/>)

d. **Chemical Agent CS Canister #98 – Model 1016 Pocket Tactical Grenade CS** (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Pocket Tactical CS Grenade is small, and lightweight. The 0.9 oz. of active agent will burn approximately 20-40 seconds. At 4.75 in. by 1.4 inches in size, it easily fits in most tactical pouches. This is a launchable grenade; however, it is normally used as a signaling or covering device. Though this device is slightly over four inches in length, it produces a smoke cloud so fast it appears to be an enveloping screen produced by a full-size tactical grenade.

(Description source: <https://www.defense-technology.com/product/pocket-tactical-grenade-cs/>)

e. **Chemical Agent CS Canister #2 – Model 1072 SPEDE-HEAT Continuous Discharge Chemical Grenade CS** (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Spede-Heat CS Grenade is a high volume, continuous burn it expels its payload in approximately 20-40 seconds. The payload is discharged through four gas ports on top of the canister, three on the side and one on the bottom. This launchable grenade is 6.12 in. by 2.62 in. and holds approximately 2.9 oz. of active agent.

(Description source: <https://www.defense-technology.com/product/spede-heat-continuous-discharge-chemical-grenade-cs/>)

f. **Ferret 40mm Powder Barricade Round CS – Model 2293** (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Ferret 40 mm Barricade Penetrating Round is filled with a CS powder chemical agent. It is a frangible projectile that is spin stabilized utilizing barrel rifling. It is non-burning and designed to penetrate barriers. Primarily used to dislodge barricaded subjects, it can also be used for area denial. Primarily used by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard, and thin plywood. Upon impact the nose ruptures and instantaneously delivers the agent payload inside a structure or vehicle.

(Description source: <https://www.defense-technology.com/product/ferret-40-mm-powder-barricade-round-cs/>)

- g. **Ferret 40mm Powder Barricade Penetrator Round, CS – Part # 2293**
(Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Ferret 40mm Barricade Penetrating Round uses a powder chemical agent to primarily dislodge barricaded subject and to deny areas of refuge. The nose ruptures upon impact and instantaneously delivers its payload. It is a frangible projectile that utilizes fins and barrel rifling to offer spin stabilization. It is designed to penetrate barriers, such as windows, particleboard, doors, and interior walls and is primarily used by tactical teams.

(Description source: <https://www.aardvarktactical.com/products/ferret-40-mm-powder-round>)

- h. **Chemical Agent OC – Model: 56854 OC Aerosol Grenade 1.3% Fogger, 6 oz** (Quantity: see Appendix A)

Manufacturer: First Defense/Defense Technology

Manufacturer Description: The 6 oz. OC Aerosol Grenade will deliver its payload of 1.3% MC% OC in 20-25 seconds. This is an atomized mist which enhances the pungent 1.3% OC formulation. Ideal for area denial areas like attics, garages, etc. This device has minimum clean up. The canister may also be handheld to direct the spray pattern. This product is designed to provide room clearing ability with minimum clear up requirements.

(Description source: <https://www.defense-technology.com/product/oc-aerosol-grenade-1-3-fogger-6-ounce/>)

- i. **Chemical Agent OC - Flameless Tri-Chamber OC - Model: 1030**
(Quantity: See Appendix A)

Manufacturer: Defense Technology/Safariland Group

Manufacturer Description: The Tri-Chamber Flameless Grenade can be used in crowd control as well as tactical deployment situations by Law Enforcement and was designed with the barricade situation in mind. Its applications in tactical situations are primarily to detect and/or dislodge barricaded subjects. The purpose of the Tri-Chamber Flameless Grenade is to minimize the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects.

(Description source: <https://www.defense-technology.com/product/flameless-tri-chamber-oc-grenade/>)

- j. **Smoke – Model 1027 Triple Chaser Separating Canister SAF-Smoke**
(Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Triple-Chaser® Saf-Smoke™ consists of three separate canisters pressed together with separating charges between each. 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 and is an effective way to quickly deploy a wide blanket of agent. The grenade is 6.5 in. by 2.7 in. and delivers Saf-Smoke™. It has an approximate burn time of 20 seconds.

(Description source: <https://www.defense-technology.com/product/triple-chaser-separating-canister-saf-smoke/>)

- k. **Smoke – Model 1083 – Maximum HC Smoke Military Style Canister**
(Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Military-Style Maximum Smoke Grenade comes from the Defense Technology® #3 smoke grenade. It is a slow burning, high volume, continuous discharge grenade designed for outdoor use in crowd management situations. Emits grey-white smoke only for approximately 1.5 to 2 minutes.

(Description source: <https://www.defense-technology.com/product/maximum-smoke-hc-military-style-canister/>)

- l. **Smoke – Model ALSG972W– Continuous Discharge Grenade, White Smoke** (Quantity: See Appendix A)

Manufacturer: ALS

Manufacturer Description: The ALSG972W is a pyrotechnic canister that is designed to deliver a high volume of smoke upon initiation. Based on the M18 military design, the ALSG972W utilizes an M201A1 fuse and discharges chemical agent for approximately 30-40 seconds.

(Description source: <https://www.lesslethal.com/products/hand-deployed/alsg972w-detail>)

- m. **Gas Ram – Chemical Agent Delivery Device** (Quantity: See Appendix A)

Manufacturer: Custom Metal Concepts Inc.

Manufacturer Description: No manufacturer description. (Custom build)

n. **Burn Safe – Chemical Agent Delivery Device (Containment Canister)**
(Quantity: See Appendix A)

Manufacturer: Burn Safe

Manufacturer Description: The Burn Safe is a double walled container constructed of aluminum. It is designed to contain the flames inside the inner chamber thereby reducing the probability of starting a fire. The Burn Safe weighs approximately 8 pounds and can easily be deployed by one tactical officer. The weight allows the user to successfully penetrate windows, screens, and glass doors. The Burn Safe allows the introduction of significant amounts of pyrotechnic non-lethal chemical agent into the target, which increases the probability of a successful resolution. The use of pyrotechnic agents has been proven to be a more effective non-lethal method of penetrating a fortified structure. The use of the Burn Safe will increase your team's effectiveness and provide you with an alternative delivery system.

(Description source:

<http://www.teargasresource.com/ProductSheets/BurnSafe.html>)

3. **Pepper Ball Launchers and Pepper Ball Munitions:** A non-lethal munitions system that employs paint ball launchers to fire “pepper balls” that contain powdered OC in place of the paint. The pepper ball delivery system combines chemical agent exposure with kinetic energy impact to aid in its effectiveness in addressing armed and/or violent individuals or crowds. Pepper ball munitions also include glass breaking rounds and marking rounds.

Capability: Pepper ball launchers give officers the ability to address an armed and/or violent suspect(s) with a non-lethal munition that delivers both chemical agent and kinetic energy impact. This combination can be extremely effective in gaining compliance or reducing threat potential with an armed and/or violent suspect(s). Due to its design, pepper balls can be delivered from a larger standoff distance allowing for an added degree of officer safety. Its high round capability and accuracy allow for its use in a wide variety of operational environments.

Usage: Pepper ball launchers and pepper ball munitions are to be used exclusively by Harbor Police Staff who have been trained in their use. Pepper ball launchers and pepper ball munitions can be used to address armed and/or violent individuals or crowds, limited instances of violent civil unrest, suicidal individuals, and individuals believed to possess or have immediate access to a deadly weapon. Pepper ball munitions can be effective in driving suspects from confined spaces or vehicles. Officers encountering a situation that requires the use of a pepper projectile system shall notify a supervisor as soon as practicable. A supervisor

shall respond to all pepper projectile system deployments where the suspect has been hit.

Pepper ball launchers and pepper ball munitions are classified as control devices and specific uses are governed under POLICY 308 – Control Devices and Techniques, POLICY 300 – Use of Force, and 4.91 First Amendment Assemblies

Training Requirements: Only department approved personnel certified as having completed department-approved training on the use of pepper projectile systems shall be allowed to deploy and use pepper projectile systems.

Fiscal Impact: See Appendix B

Lifespan: Pepper Ball Launcher – No manufacturer life span indicated by manufacturer. Two (2) year limited manufacturer warranty.

Pepper Ball Munitions – Approximately three (3) year shelf life.

The Department currently possesses the following types of pepper ball launchers and pepper ball munitions:

- a. **Tippmann Custom Carbine SX Pepper Ball Launcher** (Quantity: See Appendix A)

Manufacturer: Tippman

Manufacturer Description: This launcher has been designed by United Tactical Systems, LLC. (UTS) for reliability, accuracy, and durability. When properly handled, this launcher will give many years of dependable service.

(Description source: https://www.pepperball.com/wp-content/uploads/2018/12/SX_TX-Manual_2016.pdf)

- b. **Tippmann Custom Carbine S Pepper Ball Launcher** (Quantity: See Appendix A)

Manufacturer: Tippman

Manufacturer Description: The Carbine S is a Tippmann 98 Custom Non-ACT launcher, used widely in the paintball arena as a rental marker. It was first sold by PepperBall in 2006 and replaced the SA200 launcher. It has a two-piece clamshell receiver body and a flat or smooth top rail. It features a vertical front grip handle and a breech opening procedure that requires unhinging the hopper down and to the right side of the launcher...

(Description source: <https://www.pbpartsdepot.com/custcarbkits.html>)

- c. **PepperBall Live-X – Projectile Pepper Ball Munition** (Quantity: See Appendix A)

Manufacturer: PepperBall

Manufacturer Description: Our most potent and powerful concentration of PAVA pepper powder. One round of LIVE-X contains the equivalent to 10 regular PepperBall rounds.

(Description source: <https://www.pepperball.com/products/live-x/>)

- d. **PepperBall Inert – Projectile Pepper Ball Munition** (Quantity: See Appendix A)
[*NOTE: This projectile is utilized for training purposes only and contains no chemical agent.]

Manufacturer: PepperBall

Manufacturer Description: Containing a harmless, scented powder, this projectile is best suited for training, qualifications, and direct impact when chemical exposure is not desired.

(Description source: <https://www.pepperball.com/products/inert/>)

- e. **PepperBall Glass Breaker – Projectile Pepper Ball Munition** (Quantity: See Appendix A)
[*NOTE: This projectile is utilized for glass breaking applications and only to be used by a SWAT trained officer.]

Manufacturer: PepperBall

Manufacturer Description: Used to break side glass of vehicles and residential glass windows prior to the introduction of chemical agent into that area.

(Description source: <https://www.pepperball.com/products/glass-breaker/>)

F. Long Range Acoustic Device:

1. **Long Range Acoustic Device (LRAD):** The LRAD is a high intensity directional acoustical array for long range, clear speech hailing, and an emergency siren notification warning alert tone.

Capability: The sound levels of this device are controllable. It is designed to be used as a clear public address speaker and as an acoustic hailing device. The

LRAD has the capability of producing an emergency siren notification alert tone that can be used to deter or move subjects from an area.

Usage: The Port of San Diego Harbor Police Department may deploy the LRAD communication system for events where necessary to notify the public of large-scale evacuations, convey information to large crowds, hailing in emergency Search and Rescue operations, crisis negotiations, and other critical incidents. The purpose of the LRAD communication system is to communicate clear direction to individuals or groups during critical incidents where traditional communication methods are not feasible. The Port of San Diego Harbor Police will not use the LRAD communication system warning alert function for crowd dispersal or control, unless the crowd is engaged in actions that have a high likelihood of causing injury to officers or uninvolved civilians, and only after the crowd has already been provided a lawful order to disperse and is not compliant.

The usage guidelines of the LRAD are governed under Harbor Police Department POLICY 447 – Long Range Acoustic Device.

Training Requirements: The training requirements of the LRAD are governed under department POLICY 447 - Long Range Acoustic Device.

Fiscal Impact: See Appendix B

Lifespan: LRAD – Model 100X – One (1) year limited warranty. No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

LRAD – Model 300X - One (1) year limited warranty. No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

The Department currently possesses the following types of LRAD devices:

a. **LRAD - Model 100X** (Quantity: See Appendix A)

Manufacturer: Genasys/American Technology Corporation

Manufacturer Description: In addition to featuring best-in-class broadcast voice intelligibility, the LRAD 100X is 20 – 30 decibels louder than typical bullhorns and vehicle-based P.A. systems. Live or recorded broadcasts from the portable LRAD 100X are heard above crowd and background noise to ensure every message is clearly delivered.

(Description source: <https://genasys.com/lrad-products/>)

b. **LRAD – Model 300X** (Quantity: See Appendix A)

Manufacturer: Genasys/American Technology Corporation

Manufacturer Description: Designed for applications ranging from fixed security installations to mid-sized vehicles and vessels, the LRAD 300X mounts and transports to provide law enforcement, homeland security, and defense personnel unparalleled long-range communication and safe, scalable non-kinetic escalation of force.

(Description source: <https://genasys.com/lrad-products/>)

G. Extended Range Impact Weapons (ERIW), Projectile Launcher Platforms, ERIW Munitions, and Specialty Impact Munitions (SIM)

1. **40mm Launchers (Projectile Launch Platforms):** A single shot or multi-shot Extended Range Impact Weapon (ERIW) launcher capable for firing a variety of 40mm rounds.

Capability: 40mm launchers are capable of firing a variety of munitions with a maximum effective range of one hundred twenty (120) feet. 40mm launchers can deliver 40mm munitions in the form of chemical agents, sponge baton rounds, or combined use sponge baton OC chemical agent rounds.

Usage: 40mm launchers utilized with less lethal sponge baton rounds may be deployed to impact subjects demonstrating assaultive behavior or life-threatening behavior, as defined in POLICY 300 Use of Force. 40mm launchers utilized with less lethal sponge baton rounds may also be used to control an actively resistive subject reasonably believed to possess or have immediate access to a deadly weapon, within the force guidelines under POLICY 300 Use of Force.

The main objectives that officers attempt to achieve in using an ERIW on a subject exhibiting any of the aforementioned criteria are to effect an investigative detention or arrest; control a subject who is in lawful custody; prevent an escape; or protect the officer, the subject, or another person from injury or death. 40mm single launchers combined with less lethal 40mm sponge baton rounds are authorized to be used by any SWAT officer that has been trained in its use and maintains current ERIW qualifications.

The usage guidelines for the 40mm single shot launcher are governed HPD POLICY 300-Use of Force and HPD POLICY 350.

40mm single shot with less lethal 40mm sponge baton rounds and/or any type of 40mm chemical agent rounds are authorized to be used by SWAT officers only.

Training Requirements: Officers that have been trained in the use of the 40mm single launcher undergo thorough classroom and live fire training in its use.

Additionally, officers trained in the use of the 40mm single launcher must pass annual ERIW qualifications to maintain proficiency.

The training requirements for officers regarding the use of the 40mm single shot launcher are governed HPD POLICY 300-Use of Force and POLICY 350 Maritime Tactical Team (SWAT) / Special Weapons and Tactics (SWAT).

SWAT Officers that are authorized to use 40mm single shot and related munitions must successfully complete a SWAT Academy and undergo extensive classroom and live fire training. Additionally, SWAT Officers are required to regularly train and qualify with 40mm launchers and projectile launch platforms on a regular basis to maintain proficiency.

Fiscal Impact: See Appendix B

Lifespan:

Lewis Machine Tool (LMT) 40mm Launchers – Two (2) year limited warranty. No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

The Department currently possesses the following types of 40mm launchers:

- a. **LMT – 40mm Single Shot Launcher** (Quantity: See Appendix A)
[*NOTE: For exclusive use by the SWAT Unit only]

Manufacturer: LMT Defense

Manufacturer Description: Designed for riot and tactical situations. The Launcher is low-profile and lightweight, providing single-shot capability in an easy to carry launcher. It features an adjustable gun stock, and a Picatinny mounted front grip.

(Description source: [Shop Defense Technology 40mm LMT Tactical Single Shot Launcher with Expandable Stock \(curtisblueline.com\)](http://Shop Defense Technology 40mm LMT Tactical Single Shot Launcher with Expandable Stock (curtisblueline.com)))

2. **40mm Ammunition:** The 40MM ERIW round is a sponge baton cartridge. The sponge round has a blue-colored nose with a black base. The casing is stainless. (*NOTE: For a description and inventory of 40mm Chemical Agent Munitions, see Chemical Agents section H., 2. above)

Capability: 40mm ERIW direct impact rounds are capable of impacting a suspect at a maximum effective range of one hundred twenty (120) feet.

Usage: 40mm ammunition used in conjunction with 40mm launchers may be deployed to impact subjects demonstrating assaultive behavior or life-threatening behavior, as defined in governed HPD Policy 300-Use of Force. 40mm ammunition used in conjunction with 40mm launchers may also be used to control an actively resistive subject reasonably believed to possess or have immediate access to a deadly weapon.

The main objectives that officers attempt to achieve in using an ERIW on a subject exhibiting any of the aforementioned criteria are to effect an investigative detention or arrest; control a subject who is in lawful custody; prevent an escape; or protect the officer, the subject, or another person from injury or death. 40mm ammunition used in conjunction with 40mm launchers are authorized to be used by **any SWAT officer** that has been trained in its use and maintains current ERIW qualifications.

The usage guidelines for the 40mm single shot launcher governed under HPD Policy 300-Use of Force

40mm single shot launchers combined with less lethal 40mm sponge baton rounds and/or any type of 40mm chemical agent rounds are authorized to be used by SWAT Officers only.

Training Requirements: Officers that have been trained in the use of the 40mm impact ammunition in conjunction with the 40mm single launcher undergo thorough classroom and live fire training in its use. Additionally, officers trained in the use of the 40mm single launcher must pass annual ERIW qualifications to maintain proficiency.

The training requirements for officers regarding the use of 40mm ammunition in conjunction with the 40mm single shot launcher are governed under governed HPD Policy 300-Use of Force and HPD Policy 350-Maritime Tactical Team (SWAT) / Special Weapons and Tactics (SWAT).

SWAT Officers that are authorized to use 40mm single shot launchers and related munitions must successfully complete a SWAT Academy and undergo extensive classroom and live fire training. Additionally, SWAT Officers are required to regularly train and qualify with 40mm launchers on a regular basis to maintain proficiency.

The use and training requirements for the 40mm single shot launcher and related munitions as applicable to SWAT Officers are governed under HPD Policy 300-Use of Force and HPD Policy 350-Maritime Tactical Team (SWAT) / Special Weapons and Tactics (SWAT)

Fiscal Impact: See Appendix B

Lifespan: Five (5) year limited warranty. Five (5) year shelf life.

The Department currently possesses the following types of 40mm direct impact ammunition:

- a. **eXact iMpacT 40mm Standard Range Sponge Round – Model 6325**
(Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The eXact iMpacT 40 mm Sponge Round is a point-of-aim, point-of-impact direct-fire round. This lightweight, high-speed projectile consisting of a plastic body and sponge nose that is spin stabilized via the incorporated rifling collar and the 40 mm launcher's rifled barrel. The round utilizes smokeless powder as the propellant, and, therefore, have velocities that are extremely consistent. Used for Crowd Control, Patrol, and Tactical Applications.

(Description source: <https://www.defense-technology.com/product/exact-impact-40-mm-standard-range-sponge-round/>)

3. **Beanbag Shotguns:** This kinetic energy projectile / Extended Range Impact Weapon (ERIW) is delivered by a standard Remington Marine Model 870, 12-gauge shotgun that is distinctive in its silver finish.

Capability: Beanbag shotguns are capable of firing a 12-gauge beanbag round with a maximum effective range of sixty (60) feet.

Usage: Beanbag shotguns utilized with beanbag rounds may be deployed to impact subjects demonstrating assaultive behavior or life-threatening behavior, as defined in POLICY 300, Use of Force. Beanbag shotguns utilized with beanbag rounds may also be used to control an actively resistive subject reasonably believed to possess or have immediate access to a deadly weapon, within the force guidelines of POLICY 300, Use of Force.

The main objectives that officers attempt to achieve in using an ERIW on a subject exhibiting any of the aforementioned criteria are: to effect an investigative detention or arrest; control a subject who is in lawful custody; prevent an escape; or to protect the officer, the subject, or another person from injury or death. Beanbag shotguns combined with beanbag rounds are authorized to be used by any officer that has been trained in its use and maintains current ERIW qualifications.

The usage guidelines for the beanbag shotgun are governed under POLICY 300 – Use of Force, and POLICY 308 Control Devices, and POLICY 312 Firearms.

Training Requirements: Officers that have been trained and approved in the use of the beanbag shotgun undergo thorough classroom and live fire training in its use. Additionally, officers trained in the use of the beanbag shotgun must pass annual ERIW qualifications to maintain proficiency.

The training requirements for the beanbag shotgun are completion of a Department provided or Department approved less lethal munitions class generally conducted during new-hire on boarding.

Fiscal Impact: See Appendix B

Lifespan: Remington 870 Marine Magnum – Limited lifetime warranty. Lifespan varies on operational usage and wear

The Department currently possesses the following types of beanbag shotguns:

- a. **Remington 870 Marine – 12-gauge Beanbag Shotgun Nickel Finish**
(Quantity: See Appendix A)

Manufacturer: Remington

Manufacturer Description: A highly durable 12-gauge utility gun that resists corrosion on land or water. Electroless nickel plating covers all metal, including the inside of the barrel and receiver. The synthetic stock has generous checkering for positive control. Comes with 18 1/2" Cylinder barrel with single-bead front sight, six-round magazine, padded Cordura® and sling swivel studs.

(Description source: <https://www.remarms.com/shotguns/pump-action/model-870/model-870-special-purpose-marine-magnum>)

4. **Beanbag Ammunition:** The 12-gauge ERIW ammunition, commonly known as a beanbag round, consists of a fabric sock containing lead shot contained within a standard 2 ¾ inch shot shell casing.

Capability: Beanbag shotguns are capable of firing a 12-gauge beanbag round with a maximum effective range of sixty (60) feet.

Usage: Beanbag shotguns utilized with beanbag rounds may be deployed to impact subjects demonstrating assaultive behavior or life-threatening behavior, as defined in POLICY 300, Use of Force. Beanbag shotguns utilized with beanbag rounds may also be used to control an actively resistive subject reasonably believed to possess or have immediate access to a deadly weapon, within the force guidelines of POLICY 300 Use of Force.

The main objectives that officers attempt to achieve in using an ERIW on a subject exhibiting any of the aforementioned criteria are: to effect an investigative detention or arrest; control a subject who is in lawful custody; prevent an escape; or to protect the officer, the subject, or another person from injury or death. Beanbag shotguns combined with beanbag rounds are authorized to be used by any officer that has been trained in its use and maintains current ERIW qualifications.

The usage guidelines for the beanbag shotgun are governed under POLICY 300 – Use of Force, and POLICY 308 Control Devices, and POLICY 312 Firearms.

Training Requirements: Officers that have been trained and approved in the use of the beanbag shotgun undergo thorough classroom and live fire training in its use. Additionally, officers trained in the use of the beanbag shotgun must pass annual ERIW qualifications to maintain proficiency.

The training requirements for the beanbag shotgun are completion of a Department provided or Department approved less lethal munitions class generally conducted during new-hire on boarding.

Fiscal Impact: See Appendix B

Lifespan: Five (5) year limited warranty. Five (5) year shelf life.

The Department currently possesses the following types of Beanbag Ammunition:

- a. **12GA Super-Sock Bean Bag Ammunition – Model 2581** (Quantity: See Appendix A)

Manufacturer: Combined Tactical Systems (CTS)

Manufacturer Description: The Model 2581 Super-Sock is in its deployed state immediately upon exiting the barrel. It does not require a minimum range to “unfold” or “stabilize.” The Super-Sock is an aerodynamic projectile, and its accuracy is relative to the shotgun, barrel length, environmental conditions, and the operator. The Super-Sock is first in its class providing the point control accuracy and consistent energy to momentarily incapacitate violent, non-compliant subjects. Effective range is 75ft.

(Description source: <https://www.combinedsystems.com/product/2581-12ga-super-sock-bean-bag-priced-individually-per-cartridge-must-order-in-quantities-of-5/>)

5. **Specialty Impact Munitions (SIM):** A non-lethal training ammunition used by law enforcement agencies and militaries worldwide to deliver more realistic close-range firearms training. They consist of low energy, non-lethal cartridges,

typically manufactured with a water-soluble color marking compound. These rounds allow for shooters to obtain a visual assessment of round placement in live person training environments.

Capability: When utilized with a training munition bolt carrier group in a 5.56mm rifle platform, SIMs have an effective range of approximately 27 yards. When utilized in a pistol caliber barrel training platform (9mm), SIMs have an effective range of 25 feet.

Usage: Rifle caliber SIMs (5.56mm) are used primarily by the SWAT Unit for training purposes only. Pistol SIMs (9mm / .38 special) may be used by the SWAT Unit, In-Service Training Unit, and the Police Academy for training purposes only. These are non-operational rounds and non-operational weapons systems. These munitions provide for realistic close quarters firearms training while allowing the shooter to visually assess shot placement and accuracy in force-on-force training scenarios.

Training Requirements: SWAT Officers that use these munitions are required to successfully complete a Department Approved SWAT academy which consists of thorough instruction, practical application, and training scenarios involving the use of SIM's. Additionally, SWAT Officers use SIM's during scenario-based training on a regular basis.

In-Service Training staff, In-Service Training attendees, Police Academy Staff, and Police Recruits are given extensive firearms handling courses and weapons safety instruction to include the use of SIMs for training purposes. Department Approved Weapons Training Unit staff who oversee the use of these munitions must have completed the POST Range Safety Officer Class.

Fiscal Impact: See Appendix B

Lifespan: UTM 5.56 mm Man Marker Rounds (MMR) and 9mm UTX Rounds -18 month limited warranty. Shelf life six (6) years.

Force on Force 9mm Simunition Rounds – Shelf life five (5) years.

Simunitions FX – Shelf Life – Shelf life five (5) years

Simunition Conversion Kits and Slide Assemblies – 24 month limited warranty. No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

The Department currently possesses the following types of Specialty Impact Munitions (SIMs) and Specialty Impact Munition (SIM) conversion kits:

- a. **UTM 5.56mm Man Marker Rounds (MMR) –Model 01-0971 (Red)**

(Quantity – See Appendix A)

[*NOTE: This is a non-operational munition. This munition is used for training purposes only.]

Manufacturer: Ultimate Training Munitions (UTM)

Manufacturer Description: UTM 5.56mm Man Marker Rounds serve the following purpose:

- Accurate and reliable marking projectile for Force-on-Force or Force-on-Target training.
- Adds realism and stress to training by providing a threat of consequence with physical and visual stimulus.
- Use of Force/ROE, Tactics, Skill Building, Scenarios, Movement Drills, and other Interactive Training.
- Use as a safe prelude or alternative to ‘Live-Fire’ target or CQB training.
- Accuracy and reliability allow for multiple firearms, CQB, and marksmanship applications (360° firing, movement drills, weapon transitions).

(Description source: <https://utmworldwide.com/product/5-56mm-man-marker-round-mmr/>)

b. Force on Force/UTM/Simunition FX 9mm Marking Rounds

(Quantity – See Appendix A)

[*NOTE: This is a non-operational munition. This munition is used for training purposes only.]

Manufacturer: Simunition – FX and UTM

Manufacturer Description: (Simunition – FX) The FX® system is comprised of FX® marking cartridges, weapon conversion kits and personal protective equipment. All three essential components are supported by a comprehensive Simunition® Scenario and Safety Certification Training Course. (UTM) The UTX® round solves most of the major issues that law enforcement officers and professional trainers experience with other 9mm non-lethal training ammunition systems. (Speer LE Force on Force) This training ammunition functions in duty pistols and rifles. Firearms must be equipped with an appropriate conversion kit.

(Description source:

https://simunition.com/en/products/fx_marking_cartridges,

<https://utmworldwide.com/products/utx-round/>,

https://www.forceonforce.com/products/training_ammunition.aspx)

c. Simunition FX .38 Special Marking Rounds

(Quantity – See Appendix A)

[*NOTE: This is a non-operational munition. This munition is used for training purposes only with shotgun-based systems.]

Manufacturer: Simunition – FX

Manufacturer Description: (Simunition – FX) The FX® system is comprised of FX® marking cartridges, weapon conversion kits and personal protective equipment. All three essential components are supported by a comprehensive Simunition® Scenario and Safety Certification Training Course.

(Description source:

https://simunition.com/en/products/fx_marking_cartridges,

<https://utmworldwide.com/products/utx-round/>,

https://www.forceonforce.com/products/training_ammunition.aspx)

d. **Simunitions 10.5” Commando Rifle Upper Assembly (Simunition® product no. 5308990 – no longer listed on website)**

(Quantity – See Appendix A)

[*NOTE: This is a non-operational upper assembly. This bolt carrier group is used for training purposes only.]

Manufacturer: Simunitions

Manufacturer Description: The Simunition® conversion kit, conversion bolt, bolt carrier assembly and safety-ring insert allow the FX® Marking Cartridges and the SecuriBlank® to be fired safely from the user’s own service weapon. These easy-to-install kits help preclude the inadvertent chambering of live ammunition and ensure the proper operation and cycling of the weapons. They are an integral part of the FX® training system along with the FX® marking cartridges and the FX® protective equipment.

(Description source: https://simunition.com/en/products/conversion_kits)

e. **Simunition Glock 17 Barrel and Slide Assembly (9mm) – Product Number 5312600** (Quantity – See Appendix A)

[*NOTE: This is a non-operational barrel. This barrel is used for training purposes only.]

Manufacturer: Simunition

Manufacturer Description: The Simunition conversion kit, conversion bolt, bolt carrier assembly and safety-ring insert allow the FX Marking Cartridges and the SecuriBlank to be fired safely from the user’s own service weapon. These easy-to-install kits help preclude the inadvertent chambering of live ammunition and ensure the proper operation and cycling of the weapons. They are an integral part of the FX training system along with the FX marking cartridges and the FX protective equipment.

(Description source: https://simunition.com/en/products/conversion_kits)

f. **Simunition 12-Gauge adaptor (.38 Special) – Product Number 5312430**
(Quantity – See Appendix A)

[*NOTE: This is a non-operational chamber insert that prevents live shotgun ammunition from chambering. This system is used for training purposes only.]

Manufacturer: Simunition

Manufacturer Description: The Simunition® conversion kit, conversion bolt, bolt carrier assembly and safety-ring insert allow the FX® Marking Cartridges and the SecuriBlank® to be fired safely from the user's own service weapon. These easy-to-install kits help preclude the inadvertent chambering of live ammunition and ensure the proper operation and cycling of the weapons. They are an integral part of the FX® training system along with the FX® marking cartridges and the FX® protective equipment.

(Description source: https://simunition.com/en/products/conversion_kits)

H. Night Vision Equipment and Infrared Sighting Systems

1. **Night Vision Optical Devices:** A night-vision device (NVD), also known as night optical/observation device (NOD) or night-vision goggles (NVG) is an optoelectronic device that allows images to be produced in low levels of light approaching total darkness.

Capability: Night Vision Optical Devices provide the user the ability to see an enhanced image during darkness. The use of this equipment allows a tactical advantage for officers especially when operating in low light or dark environments.

Usage: The majority of SWAT tactical operations occur at night or are conducted in low light environments. Having NVD's allows for SWAT Officers to have a tactical advantage and an added degree of officer safety when operating in those conditions. The use of NVD's is extremely advantageous during high-risk operations, hostage rescue, active shooter, and tactical operations in a wide range of environments.

NVD's are authorized for use exclusively by the SWAT and Task Force Officers. Night Vision optical enhancement devices may be utilized during tactical missions with approval from the SWAT Commanding Officer or SWAT Executive Officer.

Training Requirements: SWAT Officers employing this equipment are required to initial training by the SWAT Team's NVD Instructors. All SWAT Officers are required to pass a weapons qualification involving the use of NVD's. SWAT

Officers maintain proficiency by continual training and annual weapons qualifications with NVD's.

Fiscal Impact: See Appendix B

Lifespan: Approximately 10,000 hours.

The Department currently possesses the following types of Night Vision Optical Devices:

a. **Night Vision Device – Model AN/PVS-14** (Quantity: See Appendix A)

Manufacturer: L3Harris

Manufacturer Description: The Night Vision Device, also known by its **Night Vision Device – Model AN/PVS-14** (Quantity: See Appendix A)

Manufacturer: L3Harris

Manufacturer Description: The Night Vision Device, also known by its military nomenclature AN/PVS-14, is the U.S. military standard for night vision and can be either used as a handheld pocket scope, a right or left eye-mounted monocular or a weapon sight when mounted in conjunction with an infrared laser aimer or other night vision-compatible primary optic.

(Description source: <https://www.l3harris.com/all-capabilities/night-vision-device-an-pvs-14>)

Infrared Sighting Systems: A device attached to a firearm to aid in target acquisition. Unlike optical and iron sights where the user looks through the device to aim at the target, laser sights project a beam onto the target that provides a visual reference point. This device is used in conjunction with NVD's to aid in rapid and accurate target acquisition

Capability: This equipment, when combined with NVD's, provides the user the ability to see an enhanced image during low light conditions or darkness. The use of this equipment allows for a tactical advantage for officers. It allows officers to obtain accurate and rapid target acquisition especially when operating in a multitude of low light or dark environments.

Usage: The majority of SWAT tactical operations occur at night or are conducted in low light environments. Having NVD's in conjunction with infrared sighting systems allows for SWAT Officers to have a tactical advantage and an added degree of officer safety when operating in those conditions. The use of NVD's combined with infrared sighting systems are extremely advantageous during high-

risk operations, hostage rescue, active shooter, and tactical operations in a wide range of environments.

Infrared sighting systems are to be used exclusively by the SWAT Unit. Night Vision optical enhancement devices combined with infrared sighting systems may be utilized during tactical missions with approval from the SWAT Commanding Officer or SWAT Executive Officer.

Training Requirements: SWAT Officers employing this equipment are required to attend thirty (30) hours of initial training by the SWAT Team's NVD Instructors. All SWAT Officers are required to pass a written test and a weapons qualification involving the use of NVD's and infrared sighting systems. SWAT Officers maintain proficiency by continual training and annual weapons qualifications with NVD's and infrared sighting systems.

Fiscal Impact: See Appendix B

Lifespan: Approximately 10,000 hours.

The Department currently possesses the following types of infrared sighting systems:

- a. **Modular Advanced Weapons Laser – Direct Actions (MAWL-DA)**
(Quantity: See Appendix A)

Manufacturer: B.E. Meyers

Manufacturer Description: The MAWL-DA (Modular Advanced Weapon Laser - Direct Action) is a high-power infrared and visible green aiming and illumination laser for individual carbines.

(Description source: <https://bemeyers.com/mawl-da>)

MILITARY EQUIPMENT PROCEDURE APPENDIX – A
Department Inventory of Military Equipment – Calendar Year 2021 (Jan 2021 – Dec 2021)

[*NOTE: The inventory of certain items of consumable military equipment (i.e., ammunition, diversionary devices, chemical agents, etc.) can fluctuate throughout the year. This can be due to operational usage, training usage, operational wear, and/or manufacturer recommended replacement guidelines. The Department intends to keep the same approximate inventory of items over the course of each year. While the Department strives to provide accuracy in its inventory reporting as prescribed by law, this appendix reflects approximations of certain consumable items of military equipment at the time of this procedure’s publication.]

Small Unmanned Aircraft Systems (sUAS)	
Equipment Name and Model / Manufacturer	Quantity
DJI Phantom 4 Pro / DJI	1
DJI Spark / DJI	1
LOKI MK2 / Sky Hero	2
Parrot Anafi Thermal / Parrott	2
Parrott Anafi / Parrott	3

Small Unmanned Tracked Robots	
Equipment Name and Model / Manufacturer	Quantity
AVATAR/ROBOTEX	1
Mk4 MILR / Norther Lights Tactical	1

Armored Personnel Carriers	
Equipment Name and Model / Manufacturer	Quantity
Bearcat G2 (4 Door CBRNE Capability) / Lenco	1

MILITARY EQUIPMENT PROCEDURE APPENDIX – A (continued)

Command and Control Vehicles	
Equipment Name and Model / Manufacturer	Quantity
SWAT Special Equipment Vehicle (SEV) Ford E250 panel truck	1
MCV – Command Post Vehicle / Freightliner MT-45	1

Specialized Firearms and Ammunition of less than .50 cal, Including Assault Weapons	
Equipment Name and Model / Manufacturer	Quantity
Specialized Firearms	
AR-15 Colt M4 Carbine R0977 / Colt Manufacturing LLC	102
AR-15 Colt Carbine LE 6921 Series / Colt Manufacturing LLC	63
Colt SP1 Carbine	1
AR-15 Daniel Defense DDM4 V4SBR / Daniel Defense	16

Specialized Firearms and Ammunition of less than .50 cal, Including Assault Weapons	
Equipment Name and Model / Manufacturer	Quantity
Specialized Firearms (continued)	
.308 Semi-auto Modular barrel, Ritter & Stark	1*
.338 Semi-auto Modular barrel, Ritter & Stark	1*
.308 Bolt Action Rifle – Accuracy International AX .308 / Accuracy International	3

*Singular firearm with two barrels (.308/.338)

MILITARY EQUIPMENT PROCEDURE APPENDIX – A (continued)

Specialized Firearms and Ammunition of less than .50 cal, Including Assault Weapons (continued)	
Equipment Name and Model / Manufacturer	Quantity
Ammunition less than .50 Cal	
Federal XM 193 American Eagle Rifle Ammunition 5.56mm X 45mm 55 grain full metal jacket / Federal	<u>SWAT Inventory</u> - Approx. 138,000 rounds <u>Range Inventory</u> - Approx. 279,000 rounds
Speer LE Gold Dot .223 Remington 62 grain Rifle Ammunition/ Speer	<u>SWAT Inventory</u> – Approx. 18,000 rounds <u>Range Inventory</u> – Approx. 78,000 rounds
Federal Premium Tactical Bonded Tip .308 Winchester Ammunition/ Federal	0 (3000 rounds currently on order)
Swiss P Armor Piercing .308 Winchester 196 grain Ammunition / Swiss P	0 (400 rounds currently on order)
.338 Sierra Match King 250 grain Federal Ammunition	0 (100 rounds currently on order)
.338 American Eagle 250 grain Federal Ammunition	0 (200 rounds currently on order)
.338 Trophy 250 grain Federal Ammunition	0 (60 rounds currently on order)

MILITARY EQUIPMENT PROCEDURE APPENDIX – A (continued)

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers	
Equipment Name and Model / Manufacturer	Quantity
Chemical Agents	
Defense Technology/Safariland Group Chemical Agent Flameless Tri-Chamber CS - Model: 1032	8
Defense Technology/Safariland Group Chemical Agent CS Triple Chaser – Model: 1026 Triple Chaser Separating Canister CS	10
Defense Technology/Safariland Group Chemical Agent CS SPEDE-HEAT Continuous Discharge Chemical Grenade CS MODEL 1072	5
Defense Technology/Safariland Group Chemical Agent CS Canister #98 – Model 1016 Pocket Tactical Grenade CS	10
Defense Technology/Safariland Group Ferret 40mm Powder Barricade Round CS – Model 2292	25
Defense Technology/Safariland Group Ferret 40mm Powder Barricade Penetrator Round, CS – Model 1292	25
First Defense / Defense Technology Chemical Agent OC – Model: 56854 OC Aerosol Grenade 1.3% Fogger, 6 oz	10

Defense Technology/Safariland Group Chemical Agent OC – Model: 1030 Flameless Tri-Chamber OC	10
Defense Technology Military Style Smoke Canister Part 1083	2
Defense Technology Triple-Chaser Separating Canister, Safe-Smoke Part No. 1027	8
ALS Continuous Discharge Grenade, White Smoke Model ALSG972W–	6

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)	
Equipment Name and Model / Manufacturer	Quantity
Diversionsary Devices aka Flashbangs (continued)	
ALS09NR (Flashbang) / ALS Defense	34

MILITARY EQUIPMENT PROCEDURE APPENDIX – A (continued)

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)	
Equipment Name and Model / Manufacturer	Quantity
Chemical Agent Delivery Devices	
Gas Ram – Chemical Agent Delivery Device / Custom Metal Concepts	1
Burn Safe – Chemical Agent Delivery Device (Containment Canister) / Burn Safe	1
Pepper Ball Launcher and Pepper Ball Munitions	
Tippman FT-12 Pepper Ball Launcher / Tippman	10
PepperBall Live-X – Projectile Pepper Ball Munition / PepperBall	Approx. 6750
PepperBall Glass Breaker – Projectile Pepper Ball Munition / PepperBall	20
PepperBall Inert – Projectile Pepper Ball Munition / PepperBall	Approx. 400

MILITARY EQUIPMENT PROCEDURE APPENDIX – A (continued)

Long Range Acoustic Device (LRAD)	
Equipment Name and Model / Manufacturer	Quantity
LRAD – Model 100X / Genasys	1
LRAD – Model 300 X / Genasys	1

Extended Range Impact Weapons (ERIW), Projectile Launcher Platforms, ERIW Munitions, and Specialty Impact Munitions (SIM)	
Equipment Name and Model / Manufacturer	Quantity
40mm Launchers	
Model LMT-40 (40mm Single Shot Launcher) / Lewis Machine Tool	2

MILITARY EQUIPMENT PROCEDURE APPENDIX – A (continued)

Extended Range Impact Weapons (ERIW), Projectile Launcher Platforms, ERIW Munitions, and Specialty Impact Munitions (SIM) (continued)	
Equipment Name and Model / Manufacturer	Quantity
Beanbag Shotguns	
Remington 870 Police Marine Magnum – 12-gauge Beanbag Shotgun / Remington	31
40mm Ammunition	
eXact iMPact 40mm Standard Range Sponge Round – Model 6325 / Defense Technology	SWAT-12
Beanbag Ammunition	
12GA Super-Sock Bean Bag Ammunition – Model 2581 / CTS	Approx. 2000
Specialty Impact Munitions (SIM)	
UTM 5.56mm Man Marker Rounds (MMR) –Model 01-0972 (Blue) / Ultimate Training Munitions	Approx. 14,000
Force on Force Simunition 9mm Marking Rounds / Simunition	Approx. 14,100
Simunition .38 Special Marking Rounds (Foe 12-Gauge Adapters) / Simunition	Approx. 500
Simmunition M-4 Commando Assembly (Simunition® product no. 5308815)	14
Simunition Glock 17 Barrel and Slide Assembly (9mm) / Simunition	13
Simunition 12-Gauge Adaptor (.38 Special) / Simunition	4

MILITARY EQUIPMENT PROCEDURE APPENDIX – A (continued)

Night Vision Equipment and Infrared Sighting Systems	
Equipment Name and Model / Manufacturer	Quantity
Night Vision Optical Devices (NVD)	
Night Vision Device – Model AN/PVS-14 / L3Harris	16
Infrared Sighting Systems	
Modular Advanced Weapons Laser – Direct Actions (MAWL-DA) BE Meyers	7

**MILITARY EQUIPMENT PROCEDURE APPENDIX – B
FISCAL IMPACT – Fiscal Year 2022 (July 2021 – June 2022)**

Small Unmanned Aircraft Systems (sUAS)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
DJI Phantom 4 Pro / DJI	\$1,599.99 / General Fund	N/A	TBD
DJI Spark / DJI	\$399.99 / General Fund	N/A	TBD
LOKI MK2 / Sky Hero	\$10,000.00/ General Fund	N/A	TBD
Parrot Anafi Thermal / Parrott	\$1,900.00 / General Fund	N/A	\$12,000.00 (total UAS projected budget)
Parrott Anafi / Parrott	\$599.99 / General Fund	N/A	\$12,000.00 (total UAS projected budget)

Small Unmanned Tracked Robots			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
AVATAR / by Robotex	\$48,500.00 per unit / JAG Grant 2018	\$10,000.00	\$11,000.00
Mk4 MILR / Norther Lights Tactical (Weapons Training Unit)	N/A due to age of purchase	\$0	\$0

Armored Personnel Carriers			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Bearcat G2 (4 Door CBRNE Capability) / Lenco	\$397,871/ UASI Grant 2019	Maintenance costs TBD	Maintenance costs TBD

Command and Control Vehicles			
Equipment Name and Model / Manufacturer	Initial Unit Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
SWAT Special Equipment Vehicle (SEV) / FORD E250 Truck	\$50,000 / WTU Budget	Maintenance costs TBD	Maintenance costs TBD
MCV – Command Post Vehicle / Freightliner MT-45	\$480929.24 / General Fund, Grant 2008	Maintenance costs TBD	Maintenance costs TBD

MILITARY EQUIPMENT PROCEDURE APPENDIX – B (continued)

Specialized Firearms and Ammunition of less than .50 cal, Including Assault Weapons			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Specialized Firearms			
AR-15 Colt M4 Carbine R0977 / Colt Manufacturing LLC	\$1019.90 per unit / Asset Forfeiture	Under \$500 (approx.)	\$2,000 (parts)
AR-15 Colt Carbine LE 6921 Series / Colt Manufacturing LLC	\$801.50 per unit / Asset Forfeiture and General Fund	Under \$500 (approx.)	\$2,000 (parts)
AR-16 Colt SP-1 (Civilian Carbine)	Seized weapon	\$0	\$0
AR-15 Daniel Defense DDM4 V4SBR / Daniel Defense	\$1,230.00 per unit / SWAT Assoc. Funds 2016	\$11,000.00 (total SWAT weapons maintenance budget)	\$12,100.00 (total SWAT weapons maintenance budget)

Specialized Firearms and Ammunition of less than .50 cal, Including Assault Weapons (continued)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Specialized Firearms (continued)			
.308 or 338 Bolt Action Rifle - SX-1 Modular Tactical Rifle / Ritter & Stark	\$7,000 per unit / SWAT Budget 2018	N/A	.308 or 338 Bolt Action Rifle - SX-1 Modular Tactical Rifle / Ritter & Stark
.308 Bolt Action Rifle – Accuracy International AX .308 / Accuracy International	\$6,000.00 per unit / SWAT Budget 2021	N/A	.308 Bolt Action Rifle – Accuracy International AX .308 / Accuracy International

MILITARY EQUIPMENT PROCEDURE APPENDIX – B (continued)

Specialized Firearms and Ammunition of less than .50 cal, Including Assault Weapons (continued)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Ammunition less than .50 cal			
Federal FED -AE223 American Eagle Rifle Ammunition 5.56mm X 45mm 55 grain full metal jacket / Federal	\$0.25 per round / General Fund	0	\$35,000
Speer LE Gold Dot .223 Remington 62 grain Rifle Ammunition/ Speer	\$0.435 per round / General Fund	\$5,596	\$5,600
Federal Premium Tactical Bonded Tip .308 Winchester Ammunition/ Federal	\$292.74 per 200 round case / SWAT Budget	\$0	\$8,760
Swiss P Armor Piercing .308 Winchester 196 grain Ammunition / Swiss P	\$875.00 per 200 round case /SWAT Budget	\$0	\$1,750
.338 Sierra Match King 250 Grain Federal Ammunition	\$699.00 per 200 round case/SWAT Budget	\$0	\$500
.338 American Eagle 250 Grain Federal Ammunition	\$539.00 per 200 round case/SWAT Budget	\$0	\$600
.338 Trophy 250 Grain Federal Ammunition	\$729.00 per 200 round case/SWAT Budget	\$0	\$400

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Diversionary Devices aka Flashbangs			
ALS09NR (Flashbang) / ALS Defense	\$40.50 per unit / SWAT Budget	\$2,000.00 (total SWAT diversionary device budget)	\$2,000.00 (total SWAT diversionary device budget)

MILITARY EQUIPMENT PROCEDURE APPENDIX – B (continued)

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Diversionary Devices aka Flashbangs (continued)			
Rheinmetall 1 Bang (Training Device) / Rheinmetall	\$40.67 per unit \$20.62 per fuse / General Fund	\$21,175.00 (total SWAT diversionary device budget)	\$23,300.00 (total SWAT diversionary device budget)
ALS09NR (Flashbang) / ALS Defense	\$40.50 per unit / General Fund	None (being phased out)	None (being phased out)
ALS4140B (Training Device) / ALS Defense	\$24.48 per unit \$14.41 per fuse / General Fund	None (being phased out)	None (being phased out)
Chemical Agents			
DefTec#1032 – Flameless Tri-Chamber CS Grenade	\$40.00 per unit / SWAT Budget	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
DefTec #1026 – CS Triple Chaser Separating Canister CS	\$37.00 per unit / General Fund	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
Chemical Agent CS Canister #2 – Model 1072 SPEDE-HEAT Continuous Discharge Chemical Grenade CS / Defense Technology	Unknown cost/SWAT Budget	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
Chemical Agent CS Canister #98 – Model 1016 Pocket Tactical Grenade CS / CTS	\$22.50 per unit / SWAT Budget	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
Ferret 40mm Powder Barricade Round CS – Model 2292 / Defense Technology	\$18.88 per unit / SWAT Budget	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
Ferret 40mm Liquid Barricade Penetrator Round, OC – Model 2260 / Defense Technology	\$21.21 per unit / SWAT Budget	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
OC Aerosol Grenade 1.3% Fogger 6 oz – Model 56854 / Defense Technology	\$21.15 per unit / SWAT Budget	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
Chemical Agent OC – Flameless Tri-Chamber OC Model 1031/Defense Technology	\$40 per unit / SWAT Budget	\$2,800.00 (total SWAT Chemical Agent budget)	\$2,800.00 (total SWAT Chemical Agent budget)
Smoke – Triple Chaser Separating Canister, Model 1027/ Defense Technology	\$47.99 per unit / SWAT Budget	\$2,800.00 (total SWAT budget)	\$2,800.00 (total SWAT budget)
Smoke – Military Style Smoke Canister – White Model 1083/ Defense Technology	\$42.38 per unit / SWAT Budget	\$2,800.00 (total SWAT budget)	\$2,800.00 (total SWAT budget)
Smoke Continuous Discharge Grenade, White Smoke Model ALSG972W/ ALS	\$32.90 per unit / SWAT Budget	\$2,800.00 (total SWAT budget)	\$2,800.00 (total SWAT budget)

MILITARY EQUIPMENT PROCEDURE APPENDIX – B (continued)

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Chemical Agent Delivery Devices			
Gas Ram – Chemical Agent Delivery Device / Custom Metal Concepts	\$1,875.00 per unit / SWAT Budget	\$2,800.00 (total SWAT budget)	\$2,800.00 (total SWAT budget)
Burn Safe – Chemical Agent Delivery Device (Containment Canister) / Burn Safe	\$1,275.00 per unit / SWAT Budget	\$2,800.00 (total SWAT budget)	\$2,800.00 (total SWAT budget)

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Pepper Ball Launcher and Pepper Ball Munitions			
Tippman Custom S & SX Pepper Ball Launcher / Tippman	2017 \$700 (FTC Launcher) X 10 Each - \$7,000 Total / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,050.00 for all Pepper Ball munitions related costs
PepperBall Live-X – Projectile Pepper Ball Munition / PepperBall	2008 \$854.99/JAR X 3 Each - \$2564.97 Total / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,050.00 for all Pepper Ball munitions related costs
PepperBall Inert – Projectile Pepper Ball Munition / PepperBall	2008 \$274.99/Jar X 10 Each - \$2,749.90 Total General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,050.00 for all Pepper Ball munitions related costs
PepperBall Glass Breaker – Projectile Pepper Ball Munition / PepperBall	\$187.50 per 125 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 for all Pepper Ball munitions related costs

MILITARY EQUIPMENT PROCEDURE APPENDIX – B (continued)

Long Range Acoustic Device (LRAD)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
LRAD – Model 100X / Genasys	\$4,995.55 / Grant 2012 WBS #P0346-4.4	None	None
LRAD – Model 300 X / Genasys	\$15,913.96 / Grant 2012 WBS #P0346-4.4	None	None

Extended Range Impact Weapons (ERIW), Projectile Launcher Platforms, ERIW Munitions, and Specialty Impact Munitions (SIM)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
40mm Launchers			
LMT – (40mm Single Shot Launcher) / LMT Defense	\$1,600.00 per unit / SWAT Budget	N/A	N/A

MILITARY EQUIPMENT PROCEDURE APPENDIX – B (continued)

Extended Range Impact Weapons (ERIW), Projectile Launcher Platforms, ERIW Munitions, and Specialty Impact Munitions (SIM) (continued)			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Beanbag Shotguns			
Remington 870 Police – 12 gauge Beanbag Shotgun / Remington	\$1,379 per unit / Asset Forfeiture 2008 \$581.58 per unit / Asset Forfeiture 2014	\$0	\$ 500 (parts)
40mm Ammunition			
eXact iImpact 40mm Standard Range Sponge Round – Model 6325 / Defense Technology	\$17.79 per unit / SWAT Budget	\$250.00 (SWAT budget)	\$250.00 (SWAT budget)
Beanbag Ammunition			
12GA Super-Sock Bean Bag Ammunition – Model 2581 / CTS	\$4.75 per round / General Fund (2014)	\$5.56 per round / General Fund	\$6,000
Specialty Impact Munitions (SIM)			
UTM 5.56mm Man Marker Rounds (MMR) – Model 01-0972 (Blue) / Ultimate Training Munitions	\$0.77 per round / General Fund	None	None
Force on Force Simunition 9mm Marking Rounds / Simunition	\$0.47 per round / General Fund	None	None
Force on Force Simunition .38 Special Marking Rounds / Simunition (Shotgun Kit)	Unknown Cost / Unknown Funding Source	None	None
UTM M16/M4 Rifle Bolt 10” Carrier Assembly / Ultimate Training Munitions	\$315.00 per unit / General Fund	\$0	\$0
Simunition Glock 17 Barrel and Slide Assembly (9mm) / Simunition	\$486.92 per unit / General Fund	None	None
Simunition 12-Gauge Adapter	NA	None	None
UTM 5.56mm Man Marker Rounds (MMR) – Model 01-0972 (Blue) / Ultimate Training Munitions	\$0.77 per round / General Fund	None	None
Force on Force Simunition 9mm Marking Rounds / Simunition	\$0.47 per round / General Fund	None	None
Force on Force Simunition .38 Special Marking Rounds / Simunition (Shotgun Kit)	General Fund	None	None

MILITARY EQUIPMENT PROCEDURE APPENDIX – B (continued)

Night Vision Equipment and Infrared Sighting Systems			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Night Vision Optical Devices (NVD)			
Night Vision Device – Model AN/PVS-14 / L3Harris	\$3,550.00 per unit /UASI Grant 2020, UASI Grant 2021	\$2,000.00 (total SWAT NVD maintenance budget)	\$2,000.00 (total SWAT NVD maintenance budget)
Infrared Sighting Systems			
Modular Advanced Weapons Laser – Direct Actions (MAWL-DA) BE Meyers	\$2,930.00 per unit / SWAT Budget	\$27,000.00 (additional equipment outlay SWAT Budget)	\$7,000.00 (additional equipment outlay SWAT Budget)