

The City of
SAN DIEGO
POLICE DEPARTMENT



Annual Military Equipment Report

2021

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Preface

The San Diego Police Department is committed to maintaining public safety by providing the highest quality police services to the communities we serve. We have an obligation to our communities and the people of this state never to let those who would engage in violent acts of criminality dictate the path of life for our city. We know all too well that violent crime thrives not when the enforcement posture, resources, and equipment available to our Department is strong, but it is when they are weak that violent criminals are tempted and emboldened. The equipment listed in this annual report are essential tools that may be required from time to time to aid in de-escalating intense situations or bringing volatile conditions and critical incidents to a safe resolution.

The mere possession of this equipment does not warrant its use in every circumstance. However, having this equipment and adequate resources available makes our Department more capable to confront those who would visit violence upon our communities and threaten our way of life as San Diegans.

With this indispensable equipment and relentless fortitude, the brave men and women of the San Diego Police Department continue to stand at the ready to fulfill the very core of our ethos, "To Protect and Serve."



Executive Summary

On September 30, 2021, the Governor of the State of California approved AB-481 requiring law enforcement agencies to obtain approval of the applicable governing body (Mayor and City Council), by adoption of a military equipment use policy. The Department is required to seek City Council approval of their military equipment use procedure by ordinance at a regular open meeting prior to taking certain actions relating to the funding, acquisition, or use of military equipment, as defined.

The bill allows the governing body to approve the funding, acquisition, or use of military equipment within its jurisdiction only if it determines that the military equipment meets specified standards. The ordinance is subject to annual City Council review to determine whether, based on an annual military equipment report, the standards set forth in the approving ordinance have been met. The City Council may renew the authorizing ordinance, disapprove authorization for particular military equipment where standards have not been met, or require modifications to the military equipment use procedure to address any non-compliance with standards.

Finally, the bill requires publication of the military equipment use procedure and the annual military equipment report on the Department's website. The military equipment use procedure must be posted on the website at least 30 days prior to the Council meeting.

AB-481, Section 7072 states the following:

(a) A law enforcement agency that receives approval for a military equipment use policy pursuant to Section 7071 shall submit to the governing body an annual military equipment report for each type of military equipment approved by the governing body within one year of approval, and annually thereafter for as long as the military equipment is available for use. The law enforcement agency shall also make each annual military equipment report required by this section publicly available on its internet website for as long as the military equipment is available for use. The annual military equipment report shall, at a minimum, include the following information for the immediately preceding calendar year for each type of military equipment:

- (1) A summary of how the military equipment was used and the purpose of its use.
- (2) A summary of any complaints or concerns received concerning the military equipment.
- (3) The results of any internal audits, any information about violations of the military equipment use policy, and any actions taken in response.
- (4) The total annual cost for each type of military equipment, including acquisition, personnel, training, transportation, maintenance, storage, upgrade, and other ongoing costs, and from what source funds will be provided for the military equipment in the calendar year following submission of the annual military equipment report.
- (5) The quantity possessed for each type of military equipment.
- (6) If the law enforcement agency intends to acquire additional military equipment in the next year, the quantity sought for each type of military equipment.

(b) Within 30 days of submitting and publicly releasing an annual military equipment report pursuant to this section, the law enforcement agency shall hold at least one well-publicized and conveniently located community engagement meeting, at which the general public may discuss and ask questions regarding the annual military equipment report and the law enforcement agency's funding, acquisition, or use of military equipment.

In addition to maintaining the highest levels of public safety, the San Diego Police Department is committed to transparency, public trust, community partnerships, and compliance with the law. As such, the Department has authored the following 2021 Annual Military Equipment Report in accordance with annual reporting requirements set forth in AB-481.





Introduction

The San Diego Police Department retains and employs a wide variety of military equipment to assist in safely achieving the furtherance of its mission statement to “maintain public safety by providing the highest quality police services to all of our communities.” While the inventory of military equipment is varied, the mere possession of the equipment does not warrant its use for every incident.

The San Diego Police Department recognizes that critical incidents are unpredictable and can be very dynamic in nature. A variety of military equipment options can greatly assist incident commanders, officers, and specific units in bringing those incidents to a swift resolution in a safe manner. The use of military equipment is restricted for use only in certain instances and in some cases only by certain units. While the military equipment procedure is wide-ranging, it is not all inclusive. There may be instances wherein unpredictable critical incidents demand the need for incident commanders to authorize military equipment to be used in a manner not outlined within Department procedure. In scrutinizing those particular instances, the judgment of the incident commander influenced by the totality of the circumstances, public safety, officer safety, civil rights, and information available at the time will be used.

It is incumbent upon incident commanders, supervisors, individual officers, and specific units to recognize the particular circumstances wherein military equipment should be employed to enhance the safety of the public and officers, and to bring a critical incident to a safe resolution.

This Annual Military Equipment Report outlines a summary of military equipment usage guidelines, inventory, fiscal impact, and complaints for 2021.

Definitions

Pursuant to AB-481, the following definitions are applicable only to the Department's current military equipment inventory and potential future military equipment acquisitions for operational needs. (For a more detailed list, refer to Government Code section 7070, for "military equipment" as defined within the Assembly Bill.)

"Governing body" means the San Diego City Council and Mayor.

"Military equipment" means the following:

1. Unmanned, remotely piloted, powered aerial or ground vehicles. This definition applies to the Department's inventory of small Unmanned Aircraft Systems (sUAS) and SWAT robots.
2. Armored personnel carriers. However, police versions of standard consumer vehicles are specifically excluded from this definition. This definition applies to all of the Department's inventory of Lenco Bearcats.
3. Command and control vehicles that are either built or modified to facilitate the operational control and direction of public safety units. This definition applies to all of the Department's inventory of Command and Control Vehicles, including but not limited to the following:
 - a) SWAT Special Equipment Vehicle (SEV)
 - b) Mobile 1 – Command Post Vehicle
 - c) Mobile 2 – Command Post Vehicle
 - d) Mobile 3 - Mobile Decontamination/ Prisoner Processing Vehicle
 - e) Mobile 4 – Command Post Vehicle
 - f) Emergency Negotiations Team (ENT) Command Vehicle
4. Battering rams, slugs, and breaching apparatuses that are explosive in nature. However, items designed to remove a lock, such as bolt cutters, or a handheld ram designed to be operated by one person, are specifically excluded from this definition. This definition applies to all of the Department's inventory of explosive breaching equipment, breaching shotguns, and breaching shotgun rounds, which are all maintained by the SWAT unit.
5. Firearms of .50 caliber or greater. However, standard issue shotguns are specifically excluded from this definition. This definition applies to all of the Department's inventory of .50 caliber sniper rifles, which are all maintained by the SWAT unit.
6. Ammunition of .50 caliber or greater. However, standard issue shotgun ammunition is specifically excluded from this definition.
7. Specialized firearms and ammunition of less than .50 caliber, including assault weapons as defined in Sections 30510 and 30515 of the Penal Code, with the exception of standard issue service weapons and ammunition of less than .50 caliber that are issued to sworn members. This

definition applies to all of the Department's inventory of rifle caliber carbines, sniper rifles, and associated ammunition.

8. Any firearm or firearm accessory that is designed to launch explosive projectiles.
9. "Flashbang" grenades and explosive breaching tools, "tear gas," and "pepper balls," excluding standard, service-issued handheld OC. This definition applies to all of the Department's inventory of flashbangs, pepper ball launchers and related ammunition. Additionally, this definition applies to all of the Department's inventory of various chemical agents and chemical agent delivery systems maintained by the SWAT Unit. These delivery systems are capable of dispersing chemical agents via burning, expulsion, liquid, or fog.
10. Long Range Acoustic Device (LRAD).
11. The following projectile launch platforms and their associated munitions: 40mm projectile launchers, "bean bag," rubber bullet, and specialty impact munition (SIM) weapons. This definition applies to all of the Department's inventory of 40 mm projectile launchers to include 40 mm multi-launchers and bean bag shotguns and associated munitions. This definition also applies to the Department's inventory of SIM ammunition and SIM modified weapons utilized by the SWAT Unit, In-Service Training Unit, and Police Academy for training.
12. "Military equipment" does not include general equipment not designated as prohibited or controlled by the federal Defense Logistics Agency.

"Military equipment use policy" refers to the San Diego Police Department Procedure and means a publicly released, written document governing the use of military equipment by the Department that addresses, at a minimum, all of the following:

1. A description of each type of military equipment, the quantity sought, its capabilities, expected lifespan, and product descriptions from the manufacturer of the military equipment.
2. The purposes and authorized uses for which the Department proposes to use each type of military equipment.
3. The fiscal impact of each type of military equipment, including the initial costs of obtaining the equipment and estimated annual costs of maintaining the equipment.
4. The legal and procedural rules that govern each authorized use.
5. The training, including any course required by the Commission on Peace Officer Standards and Training, that must be completed before any sworn member is allowed to use each specific type of military equipment to ensure the full protection of the public's welfare, safety, civil rights, and civil liberties and full adherence to the military equipment use policy.

6. The mechanisms to ensure compliance with the military equipment use policy, including which independent persons or entities have oversight authority, and, if applicable, what legally enforceable sanctions are put in place for violations of the policy.
7. The procedures by which members of the public may register complaints or concerns or submit questions about the use of each specific type of military equipment, and how the Department will ensure that each complaint, concern, or question receives a response in a timely manner.





Summary of Military Equipment

The inventory of military equipment, particularly consumable material (ammunition, diversionary devices, Extended Range Impact Weapon –ERIW munitions, etc.) fluctuates regularly. This is based on a variety of factors including but not limited to operational usage, operational deterioration, training, maintenance, and expiration and replenishment guidelines. The San Diego Police Department is committed to transparency in disclosing its military equipment inventory and related information to our community and elected officials in compliance with the law. The Department strives its utmost to provide the most accurate military equipment inventory and information at the time of this report's publication.

The following are the various types, descriptions, and guidelines for usage of military equipment currently employed by the San Diego Police Department: (*NOTE: The manufacturer descriptions and source photos

contained within are referenced via publicly accessible website source citations. The website source citations utilized in this report are for military equipment descriptive purposes only and are not an endorsement by the City of San Diego or the San Diego Police Department of a particular product or vendor.)

Small Unmanned Aircraft Systems

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 of 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 DP 8.23 – Use of Small Unmanned Aircraft System.

Training Requirements: The training requirements for the operation of sUAS are outlined in DP 8.23 – Use of Small Unmanned Aircraft System.

Fiscal Impact: See Appendix B

Lifespan: Approximately five (5) years.

The Department currently possesses the following types of sUAS:

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

DJI Phantom 4 Pro V2.0 (Quantity: See Appendix A)



Manufacturer: DJI

Manufacturer Description: Featuring a 1-inch CMOS sensor that can shoot 4K/60fps videos and 20MP photos, the Phantom 4 Pro V2.0 grants filmmakers absolute creative freedom. The OcuSync 2.0 HD transmission system ensures stable connectivity and reliability, five directions of obstacle sensing ensures additional safety, and a dedicated remote controller with a built-in screen grants even greater precision and control. A wide array of intelligent features makes flying that much easier. The Phantom 4 Pro V2.0 is a complete aerial imaging solution, designed for the professional creator.

(Description and photo source: <https://www.dji.com/phantom-4-pro-v2>)



DJI Matrice 210 (Quantity: See Appendix A)

Manufacturer: DJI

Manufacturer Description: The ultimate platform for aerial productivity combines a rugged design and simple configurability to work as a solution for a variety of industrial applications. Improvements to the M200 Series V2 enhance intelligent control systems, flight performance, and add flight safety and data security features.

(Description and photo source: <https://www.dji.com/matrice-200-series-v2?site=brandsite&from=nav>)



DJI Mavic Air (Quantity: See Appendix A)

Manufacturer: DJI

Manufacturer Description: Mavic Air 2 takes power and portability to the next level, offering advanced features in a compact form factor. Intelligent shooting functions and excellent image quality put aerial masterpieces within reach. Safer, smarter flight enables you to up your game while fully enjoying the creative process.

(Description and photo source: <https://www.dji.com/mavic-air-2?site=brandsite&from=nav>)



DJI Mavic 2 Enterprise Dual (Quantity: See Appendix A)

Manufacturer: DJI

Manufacturer Description: Designed to empower a new generation of workers, the Mavic 2 Enterprise is the ultimate expression of a tool that delivers beyond expectation to meet current workplace challenges and future demands. Featuring:

- Visible & Thermal Imagery
- Integrated Radiometric FLIR Thermal Sensor
- Adjustable Parameters For Emissivity & Reflective Surfaces
- Multiple Display Modes: FLIR MSX, Infrared & Visible

(Description and photo source: <https://www.dji.com/mavic-2-enterprise?site=brandsite&from=nav>)



Shield A.I. Nova (Quantity: See Appendix A)

Manufacturer: Shield AI

Manufacturer Description: Nothing else like it. Level 5 self-driving autonomy - no GPS, no comms, no pilot. Built for the future fight, Nova 2 packs cutting-edge AI into the most advanced sUAS ever built.

(Description and photo source: <https://shield.ai/products/nova-class>)



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



Acecore Zoe (Quantity: See Appendix A)

Manufacturer: Acecore Technologies

Manufacturer Description: Zoe's aerodynamic dutch-design carbon fiber frame puts it in a class of its own. The way it doesn't hang, but rather stand in the air makes it highly weather proof. The Acecore Zoe is both wind and rain resistant which means it can operate at continuous wind speeds of 7 Beaufort/ 30 knots with rain up to 9mm/h.

The hollow arms generate an active airflow through the entire system and pulls hot air out of the motor mounts, away from the critical components. As a result Zoe will operate at temperatures up to 50 degrees Celsius.

(Description and photo source: <https://acecoretechnologies.com/zoe/>)

Small Unmanned Tracked Robots

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 used exclusively by the SWAT unit during high risk operations.

Training requirements: SWAT Officers authorized to operate tracked robots are required to successfully complete a month long 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.

Fiscal Impact: See Appendix B

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

FirstLook – One (1) year warranty from date of delivery. Lifespan varies on operational usage and wear.

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



Mini-CALIBER (Quantity: See Appendix A)

Manufacturer: ICOR Technology

Manufacturer Description: Lightweight, modular and one-man portable, the Mini-CALIBER SWAT and EOD Robot 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 Mini-CALIBER effortlessly climbs stairs. It also includes an extendible rotating claw arm that simplifies opening door handles.

(Description and photo source: <https://icortechnology.com/robots/mini-caliber/>)



FirstLook (Quantity: See Appendix A)

Manufacturer: Teledyne FLIR

Manufacturer Description: FirstLook is a throwable, rugged, and expandable robot that provides immediate situational awareness, performs persistent observation and investigates dangerous and hazardous material while keeping its operator out of harm's way. FirstLook allows operations where other robots can't fit or maneuver. This rugged, lightweight robot can be inserted into structures and provides operators with visual, audio, and sensor feedback before entry. The robot climbs small obstacles, overcomes curbs, turns in place and self-rights when flipped over.

(Description and photo source: <https://www.flir.com/products/firstlook/>)

Bearcats

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 exclusively by the SWAT unit. 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.

Training requirements: SWAT Officers authorized to operate the BearCat are required to successfully complete month long SWAT Academy. Additionally, SWAT Officers undergo a period of classroom instruction, driving assessment, and city licensing requirements for specialty vehicles as set forth in the SDPD SWAT Academy. The usage of the Bearcat is outlined in DP 8.13 – SWAT Armory, Special Equipment Vehicle, and BearCat.

Fiscal Impact: See Appendix B

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

The Department currently possesses the following types of BearCats:



BearCat G2 – 2 Door Model (Quantity: See Appendix A)

Manufacturer: Lenco

Manufacturer Description: The Lenco BearCat G2 is the standard tactical armored vehicle for special operations units within the US Law Enforcement community. The G2 has excellent on-road driving characteristics and maneuverability in tight urban settings. The large floor plan seats 10–12 fully equipped officers with a long list of tactical features only found on the Lenco BearCat line of armored SWAT vehicles for Police and Government.

(Description source: <https://www.lencoarmor.com/model/bearcat-g2-police-government/>)



BearCat G3 – 4 Door Model with CBRNE capability (Quantity: See Appendix A)

Manufacturer: Lenco

Manufacturer Description: The BearCat G3 provides Lenco's proven armor system in a ruggedized off-road platform. The G3 utilizes the same body design, interior features and tactical options as the G2, but it comes standard with a heavier duty upgraded suspension and off-road tires, rims & run flats to provide enhanced off-road performance. The increased ground clearance and robust suspension allows for emergency response in rural regions and natural disaster scenarios where standard armored SWAT vehicles would experience challenges.

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

Mobile Command Vehicles

Mobile Command Vehicles: Completely self-contained command posts designed to provide the Incident Commander with a mobile base of operation.

Capability: As a mobile base of operation, 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 DP 8.03 - Incident Command Post and DP 8.13 – SWAT Armory, Special Equipment Vehicle, and BearCat.

Training requirements: The training requirements for Mobile Command Vehicles are outlined in DP 8.03 - Incident Command Post and DP 8.13 – SWAT Armory, Special Equipment Vehicle, and BearCat.

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 Vehicle (SEV) – (Quantity: See Appendix A)

The SWAT Special Equipment Vehicle (SEV) is a non-armored vehicle used by SWAT personnel to transport special weapons and equipment to the scene of critical incidents. Once at an incident, it is also used as a SWAT and Tactical Operations Center (TOC).

Manufacturer: Mattman Global Specialty Vehicles

Manufacturer Description: No description available. (Custom build)



Mobile 1 – Command Post Vehicle - (Quantity: See Appendix A)

Mobile 1 is a 40-foot Mobile Command Post Vehicle.

Manufacturer: Matthews Specialty Vehicles

Manufacturer Description: No description available. (Custom build)



Mobile 2 – Command Post Vehicle - (Quantity: See Appendix A)

Mobile 2 is a 24-foot Mobile Command Post Vehicle.

Manufacturer: LDV Custom Specialty Vehicles

Manufacturer Description: No description available. (Custom build)



Mobile 3 – Mobile Decontamination/ Prisoner Processing Vehicle (Quantity: See Appendix A)

Mobile 3 is a custom-built 44-foot vehicle designed for Decontamination and Prisoner Processing. This vehicle is typically deployed during pre-planned events and staffed by the requesting command.

Manufacturer: Mathews Specialty Vehicles

Manufacturer Description: No description available. (Custom build)



Mobile 4 – Command Post Vehicle (Quantity: See Appendix A)

Mobile 4 is a custom-built mobile command post vehicle with multiple forms of communications ability as well as Computer Aided Dispatch (CAD) capabilities.

Manufacturer: Nomad

Manufacturer Description: No description available. (Custom build)



Emergency Negotiations Team (ENT) Command Vehicle - (Quantity: See Appendix A)

The ENT Command Vehicle is a mobile command vehicle that houses the Command and Control element for Emergency Negotiators during a critical incident. The vehicle is equipped with communications equipment to assist with the mission.

Manufacturer: Quality Vans

Manufacturer Description: No description available. (Custom build)

Explosive Breaching Equipment

Explosive Breaching Equipment: During crisis situations, it may become necessary for a SWAT team to facilitate an entry into a target location. It is critical the point of entry is breached quickly and as safely as possible. A quick and effective breach is one key to a successful tactical mission. In some instances, an explosive breach may be required to provide an added degree of safety and tactical advantage in order to accomplish a mission.

A variety of specialized breaching equipment consisting of explosive materials are possessed by the Department. Explosive Breaching Equipment can only be used exclusively by the SWAT Unit's dedicated breaching personnel.

Capability: Explosive breaching, the use of explosive materials to affect a breach, can be an effective option in SWAT Unit tactics. An explosive breach should be viewed as a cutting tool. An effective breach is a design where the least amount of explosive material is used and still accomplishes its goal. An effective Explosive Breach can defeat fortified doors and walls. Effective breaching techniques allow tactical officers immediate entry with minimal risk to victims, officers, and suspects.

Usage: An Explosive Breach should only be utilized after taking into consideration the overall mission, officer and citizen safety, the overall construction of the structure, the presence of unstable chemicals, explosives or incendiary materials, and whether other means of mechanical breaching would be effective and safe to use. The option to use an explosive breach shall be at the discretion of the SWAT Commanding Officer with the approval of the Incident Commander.

Training Requirements: Only SWAT Officers that are certified Explosive Breachers are authorized to utilize explosive breaches. SWAT Explosive Breachers must successfully complete a month long SWAT Academy and must attend extensive POST certified Explosive Breaching Courses. Additionally SWAT Explosive Breachers must maintain a county Explosive Handler's Permit and maintain certification and proficiency with the use and handling of explosives and explosive breaching techniques.

Fiscal Impact: See Appendix B

Lifespan: Approximately five (5) years.

The Department currently possesses the following types of Explosive Breaching Equipment:



Explosive Breaching Equipment Kit – (Quantity: See Appendix A)

Explosive Breaching Equipment Kits consist of:

- 50 grain detonation cord
- 25 grain detonation cord
- 250 grain Flex Linear 16"
- 125 grain Flex Linear 16"
- 20 grain boosters
- C1 sheets
- C2 sheets
- Detonators

Manufacturer: Southwest Explosives

Manufacturer Description: No manufacturer description.

Breaching Shotguns and Breaching Ammunition

Breaching Shotguns and Breaching Ammunition: During crisis situations, it may become necessary for a SWAT team to facilitate an entry in to a target location. It is critical the point of entry is breached quickly and as safely as possible. A quick and effective breach is one key to a successful tactical mission. In some instances, a breach initiated by a breaching shotgun loaded with specialized breaching rounds may be required to provide an added degree of safety and tactical advantage in order to accomplish a mission.

Specialized Breaching Rounds, also referred to as "AVON" rounds, are frangible and are designed break into a powder form upon impact with a solid object (i.e. dead bolt lock, door frame, etc.)

The Department possesses a limited inventory of Breaching Shotguns and Breaching Shotgun Ammunition. Breaching Shotguns are to be used exclusively by trained members of the SWAT Unit.

Capability: Shotgun breaching, the use of a breaching shotgun to affect a breach, can be an effective option in SWAT Unit tactics. An effective breach is a design where the least amount of breaching

shotgun rounds are used and still accomplishes its goal. An effective shotgun breach can defeat fortified doors and locks. Effective breaching techniques allow tactical officers immediate entry with minimal risk to victims, officers, and suspects.

Usage: Breaching shotguns are to be exclusively used by the SWAT Unit. Breaching shotguns are used to breach doors expeditiously and can be used in response to barricaded suspects, hostage rescue incidents, and active shooters. Breaching shotguns are considered firearms and can be utilized as such when operated in accordance with DP – 1.04 Use of Force and DP – 1.05 Firearms.

Training requirements: SWAT Officers that are trained in the use of breaching shotguns must successfully complete a month long SWAT Academy. Furthermore, SWAT Officers must undergo regular extensive classroom and live fire proficiency training in its application.

Fiscal Impact: See Appendix B

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

Serbu Super Shorty - No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

Breaching Shotgun Ammunition – Five (5) year limited warranty. Five (5) year shelf life.

The Department currently possesses the following types of breaching shotguns and breaching shotgun ammunition:

Remington 870 Police Magnum – modified 12 gauge breaching shotgun (Quantity: See Appendix A)

Manufacturer: Remington

Manufacturer Description: The Remington 870 Police Magnum pump-action shotgun is a rugged 12-gauge with a short, tactical 18” barrel backed by a stout 3” chamber. The all-matte black gun is Parkerized for generalized durability and rust-resistance. Both the pump action forend and stock are robust and tough synthetic.



Remington 870 Police Magnum (pictured above)

(Description and photo source: <https://www.gunbroker.com/Remington-870-Police/search?Keywords=Remington%20870%20Police&s=f>)

Serbu Super Shorty – modified 12 gauge breaching shotgun (Quantity: See Appendix A)

Manufacturer: Serbu Firearms

Manufacturer Description: No manufacturer description.



Serbu Super Shorty (pictured above)

(Photo source: <https://www.capitolarmory.com/serbu-super-shorty-aow.html>)



CTS Model 2570 Breaching Shotgun Rounds – 12 gauge (Quantity: See Appendix A)

Manufacturer: CTS

Manufacturer Description: 12-gauge frangible slug to disrupt locking mechanisms and hinges, defeat and breach external and internal doors.

(Description source: <https://www.combinedsystems.com/product/2570-12ga-breaching-munition/>)



TKO 12-Gauge Breaching Shotgun Rounds – (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The 12-Gauge TKO Breaching Round is a 12-Gauge shell loaded with a compressed zinc slug, utilizing smokeless powder as a propellant. This is a widely used method to breach door locks or hinges for entry during tactical operations. When properly deployed, the TKO is capable of defeating door lock mechanisms, door knobs, hinges, dead bolts, safety chains, and pad locks on both wooden or hollow core doors.

Upon impact with the target, the zinc slug disintegrates in to a fine powder eliminating fragmentation.

(Description and photo source: <https://www.defense-technology.com/product/tko-12-gauge-breaching-round/>)



TESAR -1 Breaching Shotgun Round Model FE182 - (Quantity – See Appendix A)

Manufacturer: Royal Arms International

Manufacturer Description: Orange Cap 2-3/4" 275 Grain Compressed Copper Frangible 12 Ga Shotgun Slug.

- Slug Material: Copper Powder
- Velocity: 1,750 Ft p/sec -18" Barrel
- Use: For Wood Doors, Solid & Hollow
- Defeats: Solid Wood Doors, Locks & Hinges

(Description and photo source: <https://royalarms.com/shop/orange-cap-275-gr-copper-frangible-12-round-box/>)



TESAR-2 Breaching Shotgun Rounds - Model FE183 (Quantity: See Appendix A)

Manufacturer: Royal Arms International

Manufacturer Description: Black Cap 2-3/4" 425 Grain Compressed Copper Frangible 12 Ga Shotgun Slug.

- Slug Material: Copper Powder
- Velocity: 1,525 Ft p/sec -18" Barrel
- Use: For Metal Doors, Locks & Hinges
- Defeats: Heavy Locks, Dead-bolts and Hinges (Solid Oak – Steel Doors)

(Description and photo source: <https://royalarms.com/shop/black-cap-420-gr-copper-frangible-12-round-box/>)



TESAR-4 Breaching Shotgun Rounds - Model FE185 (Quantity: See Appendix A)

Manufacturer: Royal Arms International

Manufacturer Description: Yellow Cap 2-3/4" 750 Grain Copper/S-70 Steel Frangible 12 Ga Shotgun Slug.

- Slug Material: Copper with S-70 Steel Shot
- Velocity: 1,285 Ft p/sec -18" Barrel
- Use: For Class 3 Heavy Steel Doors
- Defeats: Class 3 Doors, Locks & Hinges

(Description and photo source: <https://royalarms.com/shop/coppers70-steel-750-grain-12-round-box/>)



TESAR-5 Breaching Shotgun Rounds - Model FE189 (Quantity: See Appendix A)

Manufacturer: Royal Arms International

Manufacturer Description: Blue Cap 2-3/4" 500 Grain Compressed Copper Frangible 12 Ga Shotgun Slug.

- Slug Material: Copper Powder
- Velocity: 1,450 Ft p/sec -18" Barrel
- Use: For Metal Doors, Locks & Hinges
- Defeats: Heavy Locks, Cross-bolts and Hinges (Steel Doors / Steel Frames)

(Description and photo source: <https://royalarms.com/shop/tesar-5-blue-cap-500-gr-copper-frangible/>)

.50 Caliber Rifles

.50 Caliber Rifles: A heavy duty, bolt action rifle rated for .50 caliber ammunition that is capable for delivering precision rifle fire at great distances with effective results.

Due to the ever increasing number of deadly incidents involving vehicle borne attacks and fortified structures both in Southern California and around the country, the SWAT Sniper Team currently employs the use of a .50 caliber Special Application Rifle Program (SAR) to address the unique operational needs presented by these threats.

The requirement and implementation of SAR programs are now the standard for many SWAT Teams both in the US and abroad to combat vehicular threats that may arise out of conventional SWAT operations or domestic and international terror attacks.

Capability: These weapons provide the capability to pierce hard armor, multiple layers of mild steel, or substantial brick, concrete and other materials that may give hard cover to potential suspects. In limited circumstances, these weapons can also be used to disable the engine block of a vehicle posing a clear and present threat to the public (i.e. a vehicle laden with explosives).

Usage: Only officers assigned to the SWAT Sniper Team are authorized to operate the .50 caliber rifles. These weapons would only be authorized for use during very select high risk operations and only with authorization from the SWAT Commanding Officer.

The use of this weapons system is also governed under DP 1.04 - Use of Force, and DP 1.05 – Firearms.

Training Requirements: SWAT Snipers must successfully complete a month long SWAT Academy and have at least two years' experience on the SWAT Team prior to being eligible for Sniper selection. SWAT Snipers must complete a rigorous SDPD SWAT Sniper Academy, attend a 40 hour POST approved Basic Sniper School, and regularly train and qualify with various weapons systems to maintain proficiency. Additionally, SWAT Snipers receive specific .50 caliber rifle training and must undergo regular training and weapons qualifications to be able to deploy the Special Application Rifle.

Fiscal Impact: See Appendix B

Lifespan: Bushmaster BA50 – Limited lifetime warranty. Barrel life rated to approximately 20,000 rounds.

Barrett Model 99 – One (1) year limited warranty. Barrel life rated to approximately 20,000 rounds.

Armalite AR-50 – Limited lifetime warranty. Barrel life rated to approximately 5,000 rounds.

The Department currently possesses the following types of .50 Caliber Rifles:

Bushmaster BA50 (Quantity: See Appendix A)

[*NOTE: Currently non-operational]

Manufacturer: Bushmaster Firearms

Manufacturer Description: The Bushmaster BA50 Black Bolt Action Rifle – 50 BMG is built to outshine all previous standards for long-range accuracy. With a free-floated barrel with 1 in 15” twist and 8-groove rifling, the Bushmaster BA50 is ideally designed to harness optimal sub-MOA accuracy from the .50 BMG.



Bushmaster BA50 (pictured above)

(Description and photo source: <https://www.sportsmans.com/bushmaster-ba50-bolt-action-rifle-50-bmg>)

Barrett Model 99 (Quantity: See Appendix A)

[*NOTE: Currently non-operational]

Manufacturer: Barrett Firearms

Manufacturer Description: The Model 99 is designed for one thing only: to get the job done. With its brilliantly simple design, hard-core construction and surprisingly few moving parts, it offers match-winning accuracy time and time again. Available in both 50 BMG and 416 Barrett, the Model 99 brings new levels of long-range precision shooting. Known as much for its dependability as its versatility, the Model 99 has unfailing accuracy you can rely on.



Barrett Model 99 (pictured above)

(Description and photo source: <https://barrett.net/products/firearms/model-99/>)

Armalite AR-50 (Quantity: See Appendix A)

[*NOTE: Currently non-operational]

Manufacturer: Armalite

Manufacturer Description: This rifle is the newest incarnation of the wildly popular AR-50 chambered for the powerful .50 BMG cartridge – a single-shot, bolt-action rifle featuring a unique octagonal receiver bedded down into a V-shaped stock. Designed to be an economical answer for the challenges of long range shooting, the AR-50A1 is amazingly accurate and with its massive muzzle brake, it has a very manageable recoil. The AR-50A1 is a highly refined rifle which is a stark and refreshing difference that maintains its superiority over the competition. The buttstock is removable, allowing for increased portability when traveling. Includes the extremely rugged and versatile GG&G bipod.



Armalite AR-50 (pictured above)

(Description and photo source: <https://www.armalite.com/SACItem.aspx?Item=50A1BGGG>)

.50 Caliber Rifle Ammunition

.50 Caliber Rifle Ammunition: Rifle ammunition manufactured specifically for .50 caliber Special Application Rifles (SAR's). This caliber is also referred to as .50 BMG. Currently there are three types of .50 caliber rifle ammunition that are authorized for use with the SAR program. These are frangible ammunition, match ammunition, and armor piercing ammunition.

Capability: There are five types of .50 caliber rifle ammunition within the Department's inventory. Of these five types, only three are authorized for operational use. The other two types are utilized solely for training purposes only. All of the variants of .50 caliber rifle ammunition authorized by the Department are capable of delivering precision rifle fire at great distances with effective results. The ammunition variants have different capabilities and uses which are as follows:

- **Frangible Ammunition:** Designed specifically for urban environments. Frangible ammunition is constructed of compressed copper/tin matrix that is designed to break apart and expand on contact with hard surfaces, significantly reducing the chance of ricochet or over-penetration while still delivering its kinetic energy. The frangible round is for use when there is concern for over-penetration and the safety of the public and/or officers.
- **Match Ammunition:** Designed for when greater distance from a target is encountered and accuracy is needed. Match ammunition rounds excel against heavy barriers and penetrating thick glass.
- **Armor Piercing Ammunition:** Designed to penetrate hardened steel mediums and continue through with maximum retained weight of the projectile. These rounds can penetrate one inch of steel.
- **Military Grade Ball:** (Non-operational round) Designed as enhanced performance round for real world and training environments. This round features a full metal jacket and delivers increased penetration of armor and hard targets.
- **Military Grade Tracer:** (Non-operational round) Designed with the same characteristics as military grade ball ammo, this round also features a small pyro-technic charge at its base. When fired the pyrotechnic material burns intensely, making the round's trajectory visible to the naked eye, especially during nighttime. This allows the shooter to visually track the trajectory of the round and make any necessary ballistic corrections.

Usage: The operational ammunition is only authorized for use in conjunction with a Special Application Rifle during very select high risk operations and only with authorization from the SWAT Commanding Officer. The non-operational ammunition is to be utilized in training environments only.

Training Requirements: The training requirements are the same as outlined for .50 Caliber Special Application Rifles (SAR's).

Fiscal Impact: See Appendix B

Lifespan: Approximately 10 year shelf life.

The Department currently possesses or has authorized the following types of .50 caliber rifle ammunition:



Frangible Ammunition - .50 BMG 600 grain Engel Ballistic Research (Quantity: See Appendix A)

Manufacturer: Engel Ballistic Research

Manufacturer Description: The Lead-Free EBR Frangible .50 line is designed specifically to allow the shooter to utilize the incredible power of a .50 caliber weapon system in environments and ranges that normally do not permit the use of .50 caliber weapons. EBR frangible ammunition provides an extra measure of accuracy and safety for those training or performing job-related duties in urban areas. The projectile is designed to break apart and expand on contact with hard surfaces, significantly reducing the chance of ricochet or over-penetration.

(Description and photo source: <https://www.ebrammo.com/EBR-50-BMG-Frangible-RN-600gr-p/50frn.htm>)



Match Ammunition - .50 caliber .510" 750 grain Hornady A-MAX (Quantity: See Appendix A)

Manufacturer: Hornady Ammunition

Manufacturer Description: We carefully select every component to ensure uniformity, then load to exacting specifications to provide pinpoint accuracy. Each cartridge is loaded with either Hornady A-MAX bullets, our high-performance boattail hollow points, or the new, radically superior ELD Match bullets. Stringent quality control ensures proper bullet seating, consistent charges and pressures, optimal velocity, consistent overall length and repeatable accuracy.

(Description and photo source: [https://www.hornady.com/ammunition/rifle/50-bmg-750-gr-a-max-match#/\(/\)](https://www.hornady.com/ammunition/rifle/50-bmg-750-gr-a-max-match#/))



Armor Piercing Ammunition - .50 BMG (Non-Tungsten core) (Quantity: See Appendix A)

Manufacturer: Military

Manufacturer Description: Military grade .50 BMG armor piercing ammunition.

(Source photo: <https://xproducts.com/product/50-cal-api-ammo-50-bmg>)



Military Grade Ball - .50BMG (full metal jacket)

(Quantity: See Appendix A)

[*NOTE: Non-operational ammo. Used for training purposes only.]

Manufacturer: Military

Manufacturer Description: Military grade .50 BMG ball ammunition.

(Source photo: <https://fedarm.com/product/50-bmg-ball-reman/>)



Military Grade Tracer - .50BMG (full metal jacket)

(Quantity: See Appendix A)

[*NOTE: Non-operational ammo. Used for training purposes only.]

Manufacturer: Military

Manufacturer Description: Military grade .50 BMG tracer ammunition.

(Source photo: <https://fedarm.com/product/50-bmg-12-7x99-632-grain-m10-tracer-match-grade-ammunition/>)

AR-15 Rifles

AR-15 Rifles: A semi-automatic 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 rifles are outlined in DP 1.41 – Rifle Caliber Carbine, DP 1.04 - Use of Force, and DP 1.05 – Firearms.

Training Requirements: The training requirements for AR-15 rifles are outlined in DP 1.41 – Rifle Caliber Carbine, DP 1.04 - Use of Force, and DP 1.05 – Firearms.

For the SWAT Unit, the AR-15 is the primary weapons system utilized by the team. SWAT Officers are required to successfully complete a month long SWAT Academy consisting of extensive firearms training including the AR-15. While assigned to the SWAT Team, SWAT Officers are required to participate 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 LE 6920 Series – One (1) year warranty. Barrel life rated to approximately 12,000 rounds.

Colt Carbine LE 6933 Series – One (1) year warranty. Barrel life rated to approximately 15,000 rounds.

Daniel Defense DDM4 V4SBR – Limited warranty. Barrel life rated to approximately 28,000 rounds.

DPMS 5.56 AR-15 - No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

Olympic Arms 5.56 AR-15 - No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

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

Colt M4 Carbine LE 6920 Series (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.



Colt M4 Carbine LE 6920 Series (pictured above)

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

Colt Carbine LE 6933 Series (Quantity: See Appendix A)

Manufacturer: Colt Manufacturing LLC

Manufacturer Description: Built for the demanding use of those who protect our communities every day, the Colt Enhanced Patrol Rifle (EPR) is the next evolution in the world's most dependable, thoroughly field-tested patrol rifle. Featuring an extended handguard that accepts modular rail segments for mounting a wide variety of pro-grade optics, lighting, and ergonomics-enhancing accessories, as well as the highly durable Magpul MBUS Pro Series front and rear back up sights and B5

Bravo buttstock. The Colt EPR reestablishes the Colt AR-15 as the finest tool for local, regional, and national law enforcement agencies.



Colt Carbine LE 6933 Series (pictured above)

(Description photo and source: <https://www.colt.com/detail-page/enh-patrol-rif-556-115-301>)

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 ambi GRIP-N-RIP Charging Handle accommodates left- and right-handed shooters. This rifle also comes with the ergonomic Daniel Defense Buttstock and Pistol Grip.



Daniel Defense DDM4 V4SBR (pictured above)

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

DPMS 5.56 AR-15 (Quantity: See Appendix A)

[*NOTE: This is a non-operational rifle and only used by Police Range Staff for instructional purposes only.]

Manufacturer: DPMS

Manufacturer Description: No manufacturer description.



DPMS 5.56 AR-15 (pictured above)

(Source photo: <https://www.sportsmansoutdoorsuperstore.com/products2.cfm/ID/17075>)

Olympic Arms 5.56 AR-15 (Quantity: See Appendix A)

[*NOTE: This is a non-operational rifle and only used by Police Range Staff for instructional purposes only.]

Manufacturer: Olympic Arms

Manufacturer Description: No manufacturer description.



Olympic Arms 5.56 AR-15 (pictured above)

(Source photo: https://www.the-armory.com/shopsite_sc/store/html/product44.html)

.308 Semi-Automatic Rifles

.308 Semi-Automatic Rifles: A semi-automatic shoulder-fired rifle with precision optics that fires a .308 Winchester cartridge.

Capability: The .308 semi-automatic rifle provides SWAT Snipers the ability to engage hostile suspects at great distances with accuracy. The .308 semi-automatic rifle platform allows for precision rifle fire to be delivered at a faster rate than a bolt action Sniper Rifle.

Usage: .308 semi-automatic 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.

Training Requirements: SWAT Snipers must successfully complete a month long SWAT Academy and have at least two years' experience on the SWAT Team prior to being eligible for Sniper selection. SWAT

Snipers must complete a rigorous SDPD SWAT Sniper Academy, attend a 40 hour POST approved Basic Sniper School, and regularly train and qualify with various weapons systems including the .308 semi-automatic rifle to maintain proficiency.

Fiscal Impact: See Appendix B

Lifespan: JP Enterprises LRP-07 – Barrel life rated to approximately 3,000 to 6,000 rounds.

M&P 10 – 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 .308 semi-automatic rifles:

JP Enterprises LRP-07 - .308 Semi-Automatic Rifle (Quantity: See Appendix A)

Manufacturer: JP Enterprises

Manufacturer Description: The LRP-07 Designated Marksman Rifle is ready to take anything you can throw at it. Built on our new top-charge billet receiver set, this .308 Winchester platform performs with a wide variety of, ensuring that there's a load to fit your need. With the right ammo, this rifle will reliably offer you 1000-yard reach. It offers a good all-round package for the shooters looking for a step up in energy and horsepower from their AR-15. It's a great entry rifle for guys shooting long-range precision rifle matches in the Tactical Divisions.



JP Enterprises LRP-07 (pictured above)

(Description photo and source: <https://www.jp Rifles.com/buy.php?item=RR-LRP07/LTC19DM>)

M&P 10 - .308 Semi-Automatic Rifle (Quantity: See Appendix A)

[*NOTE: This is a non-operational rifle and only used by Police Range Staff for instructional purposes only.]

Manufacturer: Smith & Wesson

Manufacturer Description: M&P10 Rifles are versatile, easily accessorized, and suitable for a wide variety of recreational, sport shooting and professional applications. Engineered with 5R Rifling and 1/10 Twist, the M&P10 is as accurate as it is powerful. Making short work of long range, M&P10 Rifles keep you at the ready.



M&P 10 - .308 Semi-Automatic Rifle (pictured above)

(Photo and source description: <https://www.smith-wesson.com/product/mp-10-0>)

.308 Bolt Action Sniper Rifles

.308 Bolt Action 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 DP 1.04 - Use of Force, and DP 1.05 – Firearms.

Training Requirements: SWAT Snipers must successfully complete a month long SWAT Academy and have at least two years' experience on the SWAT Team prior to being eligible for Sniper selection. SWAT Snipers must complete a rigorous SDPD SWAT Sniper Academy, attend a 40 hour 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 AX .308 Bolt Action Rifle – One (1) year limited warranty. Barrel life rated for approximately 5,000 rounds.

The Department currently possesses the following types of .308 bolt action Sniper Rifles:

Accuracy International AX .308 Bolt Action Rifle (Quantity: See Appendix A)

Manufacturer: Accuracy International

Manufacturer Description: The short action AX308 (.308 Winchester) is a worthy successor to the battle hardened AW308, boasting a raft of new features including the patented Quickloc system which allows the barrel to be changed or removed for transit in minutes using the hex key stored in the cheek piece.



Accuracy International AX .308 Bolt Action Rifle (pictured above)

(Photo and description source: <https://www.accuracyinternational.com/ax308.html>)

MP-5 Sub-Machine Guns

MP-5 Submachine Guns: A compact, modular, lightweight, shoulder fired, submachine gun capable of semi-automatic or automatic fire chambered in 9mm.

Capability: The MP-5 submachine gun provides the ability to deliver precision gun fire with a shoulder fired weapons system that is accurate, reliable, and safe. Its compact design allows for ease of maneuverability when operating in the open or within interior environments.

Usage: The use of the MP-5 submachine gun is relegated to officers assigned to the Special Response Team (SRT) within the SWAT Unit. Additionally, a select number of officers and detectives assigned to the Narcotics Unit have been trained and authorized in its use. This weapons system is currently being phased out as most of the current inventory of MP-5's are over 20 years old. The extended length of service and lack of replacement components makes this weapons system difficult to maintain.

The use of this weapons system is also governed under DP 1.04 - Use of Force, and DP 1.05 – Firearms.

Training Requirements: Officers authorized to carry the MP-5 have completed numerous hours of live fire and movement training. Additionally, officers authorized to use the MP-5 must complete weapons qualifications on a regular basis to maintain proficiency. Currently, SWAT SRT Officers utilize MP-5's when deployed in low visibility security details or crowded operational settings.

Fiscal Impact: See Appendix B

Lifespan: One (1) year limited warranty. Barrel life rated for approximately 50,000+ rounds.

The Department currently possesses the following types of MP-5 submachine guns:

HK MP5 Submachine Gun (Quantity: See Appendix A)

[*NOTE: Currently being phased out of operational usage]

Manufacturer: Heckler & Koch

Manufacturer Description: Probably the most popular series of submachine guns in the world, it functions according to the proven roller-delayed blowback principle. Tremendously reliable, with maximum safety for the user, easy to handle, modular, extremely accurate and extraordinarily easy to

control when firing – HK features that are particularly appreciated by security forces and military users worldwide.



HK MP5 Submachine Gun (pictured above)

(Photo and description source: <https://www.heckler-koch.com/en/products/military/submachine-guns/mp5/mp5/overview.html>)

Miscellaneous Crime Lab Assault Weapons

Miscellaneous Crime Lab Assault Weapons: The SDPD Crime Lab has a vast inventory of miscellaneous assault weapons ranging from semi-automatic firearms to an assortment of fully automatic weapons of various calibers, makes, and models.

Capability: This wide range of assault weapons allows Crime Lab personnel to conduct important forensic and ballistic analyses to solve crimes and acquire necessary evidence for the successful prosecution of offenders. The large catalog of assault weapons also provides Firearms Examiners assigned to the unit a vast firearms reference library to enhance their overall firearms knowledge and expertise to assist with evidentiary analysis and court testimony.

Usage: Firearms and assault weapons within the Crime Lab inventory are used exclusively for forensic analysis and comparisons and for forensic firearms education, training, and court testimony. The catalog of firearms within the Crime Lab are prohibited from being used by officers in the field or in an operational setting.

Only personnel assigned to the Crime Lab Firearms Unit and Supervising Criminalists have access to the firearms, which are housed in a secured facility. On occasion, firearms may be temporarily loaned to the Police Academy or Training Division for firearms instruction demonstrations. Additionally, firearms may be temporarily loaned to allied agencies or the District Attorney's Office for forensic firearms education or evidentiary purposes. Any loan of Crime Lab assault weapons follows strict tracking and inventory protocols.

Training Requirements: Firearms Examiners who have access to the Crime Lab assault weapons for forensic analysis are required to undergo extensive weapons safety and weapons handling courses. Crime Lab personnel assigned to the unit must have a four-year science degree with emphasis in the hard sciences (chemistry, biology, physics, etc.). Once assigned to the unit, Crime Lab personnel undergo a minimum of two years of forensic firearms specific courses related to their field, in addition to continuous training and professional forensic firearms education.

Fiscal Impact: See Appendix B

Lifespan: Various manufacturers. Various calibers, models, and types. Lifespan varies on usage and wear.

Miscellaneous Crime Lab Assault Weapons (Quantity: See Appendix A)

The Department Crime Lab Firearms Division currently possesses over 3000 miscellaneous firearms to include approximately 142 various assault weapons. The overwhelming majority of assault weapons within the Crime Lab inventory are obtained through asset seizure, forfeiture, or public donation.

Manufacturer: Various manufacturers. Various calibers, models, and types.

Manufacturer Description: Various manufacturers. Various calibers, models, and types.



Crime Lab Firearms Division Storage Facility (pictured above)

.223 or 5.56mm Rifle Ammunition

.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 .223 caliber or 5.56mm ammunition used in conjunction with AR-15 rifles are outlined in DP 1.41 – Rifle Caliber Carbine, DP 1.04 - Use of Force, and DP 1.05 – Firearms.

For the SWAT Unit, the AR-15 is the primary weapons system utilized by the team. SWAT Officers regularly utilize the AR-15 as their primary weapons system on tactical operations.

Training Requirements: The training requirements for .223 and 5.56mm ammunition used in conjunction with AR-15 rifles are outlined in DP 1.41 – Rifle Caliber Carbine, DP 1.04 - Use of Force, and DP 1.05 – Firearms.

For the SWAT Unit, the AR-15 is the primary weapons system utilized by the team. SWAT Officers are required to successfully complete a month long SWAT Academy consisting of extensive firearms training including the AR-15. While assigned to the SWAT Team, SWAT Officers are required to participate 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: Approximately 10 year shelf life.

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



Federal – XM 193 American Eagle Rifle Ammunition 5.56 X 45mm 55 grain full metal jacket (Quantity: See Appendix A)

Manufacturer: Federal

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.

(Photo and description source: <https://www.federalpremium.com/rifle/american-eagle/american-eagle-rifle/11-XM193X.html>)



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.

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



Black Hills Ammunition 5.56mm 62 grain Reduced Ricochet Limited Penetration (RRLP LF-FBI) Shoothouse Training Ammunition
(Quantity: See Appendix A)

[*NOTE: This ammunition is only used by the SWAT Unit for live fire shoothouse training only. This is a non-operational round.]

Manufacturer: Black Hills Ammunition

Manufacturer Description: No manufacturer description.

.308 Caliber Rifle Ammunition

.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 DP 1.04 - Use of Force, and DP 1.05 – Firearms.

Training Requirements: SWAT Snipers must successfully complete a month long SWAT Academy and have at least two years' experience on the SWAT Team prior to being eligible for Sniper selection. SWAT Snipers must complete a rigorous SDPD 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:



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.

(Photo and description source: <https://le.vistaoutdoor.com/ammunition/federal/rifle/details.aspx?id=1017>)



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.

(Photo and description source: <https://le.vistaoutdoor.com/ammunition/federal/rifle/details.aspx?id=680>)



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 armour. 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.

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

Diversiónary Devices (Flashbangs)

Diversiónary Devices aka Flashbangs: Canisters that emit a loud noise and bright light.

Capability: Diversiónary 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: Diversiónary Devices are to be used exclusively by the SWAT Unit. Diversiónary 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 Diversiónary Devices is also governed under DP 1.36 – Use of Specialty Munitions.

Training Requirements: SWAT Officers must successfully complete a month long SWAT Academy and are subject to ongoing extensive classroom and practical application training in the use of the Diversiónary Devices.

Additionally, SWAT Officers regularly train on safe device deployment in a variety of operational settings.

Fiscal Impact: See Appendix B

Lifespan: Rheinmetall Diversiónary Devices – Five (5) year limited warranty. Five (5) year shelf life.

ALS Diversiónary Devices – Five (5) year limited warranty. Five (5) year shelf life.

The Department currently possesses the following types of Diversiónary Devices:



Rheinmetall 1 Bang Vanguard BTV-EL (Flashbang) (Quantity: See Appendix A)

Manufacturer: Rheinmetall

Manufacturer Description: These new Sound & Flash Grenades have a highly reliable functionality and very precise delay times. The new design is now based on Bottom Top Venting (BTV) System as well as an Extended Length (EL) body. This ensures a superior hand safety and reduces the risk for the user during grenade functioning. Due to the elimination of the side venting system, no venting holes are covered when the grenade is lying directly on the ground or other flat surface.

Eliminating the side vents – combined with the pressure balance generated by the 2 venting directions leads to a reduced movement of the grenade after it functions. This increases the safety for the user and

ensures a defined area of engagement. Another feature is the improved exceptional water tightness of up to 20 m / 2 bar.

(Photo and description source: <https://www.valleyassociates.com/products/energetic/distraction-devices/rheinmetall-nico-sound-flash-grenade-new-design/>)



Rheinmetall 6 Bang Vanguard BTV-EL (Multi-bang Flashbang)

(Quantity: See Appendix A)

Manufacturer: Rheinmetall

Manufacturer Description: Same description as Rheinmetall 1 Bang Vanguard BTV-EL (Flashbang)

(Photo and description source: <https://www.valleyassociates.com/products/energetic/distraction-devices/rheinmetall-nico-sound-flash-grenade-new-design/>)



Rheinmetall 9 Bang Vanguard BTV-EL (Multi-bang Flashbang)

(Quantity: See Appendix A)

Manufacturer: Rheinmetall

Manufacturer Description: Same description as Rheinmetall 1 Bang Vanguard BTV-EL (Flashbang)

(Photo and description source: <https://www.valleyassociates.com/products/energetic/distraction-devices/rheinmetall-nico-sound-flash-grenade-new-design/>)



Rheinmetall 1 Bang (Training Device) (Quantity: See Appendix A)

Manufacturer: Rheinmetall

Manufacturer Description: Training device to use with the full range of effect charges produced by RWM Branch Nico Trittau.

(Photo and description source: <https://www.valleyassociates.com/products/energetic/distraction-devices/rheinmetall-nico-sound-flash-grenade-new-design/>)

**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.

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

**ALS4140B (Training Device)** (Quantity: See Appendix A)

Manufacturer: ALS Defense

Manufacturer Description: The ALS4140B is a reloadable training diversionary device body that can be reloaded up to 100 times when used in conjunction with the M201T and 40 times with an ALS09. The body has the same configuration and physical characteristics as the operational 4140, but in an easily recognizable UN Blue for training identification.

(Photo and description source: <https://www.lesslethal.com/products/als4140b-detail>)

Chemical Agents and Chemical Agent Delivery Devices

Chemical Agents and Chemical Agent Delivery Devices: Compounds, devices, and delivery systems utilized by SWAT and not covered by DP - 1.06 Use of Liquid Chemical Agent. 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 hand held 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 metal cylindrical 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 when objectively reasonable to defend against a threat to life or serious bodily injury to any individual, including the officer, or to bring an objectively dangerous and unlawful situation safely and effectively under control. See Penal Code 13652.

Chemical agents are classified as specialty munitions and specific uses are governed under DP 1.35 – Use of Specialty Munitions, DP 1.04 – Use of Force, and 4.17 First Amendment Activity Facilitation and Management.

Training Requirements: SWAT Officers authorized in the use of chemical agents have completed extensive chemical agent training upon successfully completing a month long 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 1.3% MK-46H Stream OC Aerosol – Two (2) year limited warranty. Two (2) year shelf life.

Chemical Agent Delivery Devices - No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

The Department currently possesses the following types of chemical agents:



CTS #6343- OC-CS Vapor Grenade (Quantity: See Appendix A)

Manufacturer: CTS

Manufacturer Description: A unique grenade delivering an invisible vapor and rendering an intense respiratory effect. Provides best results when used indoors and requires no personal decontamination.

(Photo and description source: <https://www.combinedsystems.com/product/6343-oc-cs-vapor-grenade/>)



CTS #5230B – CS Baffled Canister Grenade, Pyro, Low Flame Potential (Quantity: See Appendix A)

Manufacturer: CTS

Manufacturer Description: Pyrotechnic grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.

(Photo and description source: <https://www.combinedsystems.com/product/5230b-cs-baffled-canister-grenade-pyro-low-flame-potential-2/>)



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.

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



Chemical Agent CS Canister #3 – Model 1082 Riot Control Continuous Discharge Grenade CS (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Riot Control CS Grenade is designed specifically for outdoor use in crowd control situations with a high volume continuous burn that expels its payload in approximately 20-40 seconds through four gas ports located on the top of the canister. This grenade can be used to conceal tactical movement or to route a crowd. The volume of smoke and agent is vast and obtrusive. This launchable grenade is 6.0 in. by 2.35 in. and holds approximately 2.7 oz. of active agent.

(Photo and description source: <https://www.defense-technology.com/product/riot-control-continuous-discharge-grenade-cs/>)



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.

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



Model CTS 5210 – White Smoke Grenade (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: Pyrotechnic smoke grenade used for concealment or as a signaling device.

(Photo and description source: <https://www.combinedsystems.com/product/5210-white-smoke-canister-grenade/>)



Ferret 40mm Powder Barricade Round CS – Model 2292 (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.

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



Ferret 40mm Liquid Barricade Penetrator Round, OC – Model 2260 (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Ferret 40mm Round is non-burning and suitable for indoor use. Used primarily by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of a structure or vehicle.

In a tactical deployment situation, the 40mm Ferret is primarily used to dislodge barricaded subjects from confined areas. Its purpose is to minimize the risks to all parties through pain compliance, temporary discomfort and/or incapacitation of potentially violent or dangerous subjects.

(Photo and description source: <https://www.defense-technology.com/product/ferret-40mm-liquid-barricade-penetrator-round-oc/>)



Ferret 40mm Powder Barricade Penetrator Round, CS – Model 1292 (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.

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



Direct Impact 40mm OC Crushable Foam Round – Model 6320 (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The 40mm Direct Impact munition is a point-of-aim, point-of-impact direct-fire round. An excellent solution whether you need to incapacitate a single subject or control a crowd.

(Photo and description source: <https://www.defense-technology.com/product/direct-impact-40-mm-oc-crushable-foam-round/>)



Direct Impact 40mm CS Crushable Foam Round – Model 6322

(Quantity: See Appendix A)

[*NOTE: This is a non-operational munition.]

Manufacturer: Defense Technology

Manufacturer Description: The 40mm Direct Impact munition is a point-of-aim, point-of-impact direct-fire round. An excellent solution whether you need to incapacitate a single subject or control a crowd.

(Photo and description source: <https://www.defense-technology.com/product/direct-impact-40mm-cs-crushable-foam-round/>)



37mm Heavy Duty Barricade CS – Model 1152 (Quantity: See Appendix A)

[*NOTE: This is a non-operational munition. The current inventory is expired and is being phased out for operational use.]

Manufacturer: Defense Technology

Manufacturer Description: No manufacturer description.



37mm Spede-Heat Short-Range Round, CS – Model 2002 (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Spede-Heat 37 mm CS Short-Range Round is designed to deliver down range 75 yards. This 37 mm shell casing is 4.75 in. by 1.5 in. and delivers approximately .94 oz. of active agent during its 20-40 second of burn time. These chemical and smoke projectiles are designed for outdoor use and have fire-producing capability. This round is designed specifically for outdoor use in crowd control situations with a high volume continuous burn. Regardless, the volume of smoke and agent is vast and obtrusive. The Spede-Heat chemical and smoke projectiles are designed for outdoor use and have fire-producing capability.

(Photo and description source: <https://www.defense-technology.com/product/spede-heat-37-mm-short-range-round-cs/>)



First Defense 1.3% MK-46H Stream OC Aerosol (Handheld OC Canister) (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The MK-46 features a trigger handle, is intended for use in crowd management and will deliver 26 short bursts of OC at an effective range of 25-30 ft. This 1.3% MC OC aerosol product utilizes a stream delivery method providing a target-specific, strong concentrated stream for greater standoff. Non-flammable / Electronic Discharge Weapon (EDW) safe.

(Photo and description source: <https://www.defense-technology.com/product/first-defense-1-3-mk-46h-stream-oc-aerosol/>)



OC Aerosol Grenade 1.3% Fogger 6 oz. – Model 56854 (Quantity: See Appendix A)

[*NOTE: This is a non-operational canister. The current inventory is expired and is phased out for operational use.]

Manufacturer: 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 hand held to direct the spray pattern. This product is designed to provide room clearing ability with minimum clear up requirements.

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



OC Aerosol Grenade 1.3% Fogger 1 oz. – Model 56814 (Quantity: See Appendix A)

[*NOTE: This is a non-operational canister. The current inventory is expired and is phased out for operational use.]

Manufacturer: Defense Technology

Manufacturer Description: The 1 oz. OC Aerosol Grenade will deliver its payload of 1.3% MC% OC in 15-20 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 hand held to direct the spray pattern. This product

is designed to provide room clearing ability with minimum clear up requirements.

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



Gas Ram – Chemical Agent Delivery Device (Quantity: See Appendix A)

Manufacturer: Custom Metal Concepts Inc.

Manufacturer Description: No manufacturer description (Custom build)



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.

(Photo and description source: <http://www.teargasresource.com/ProductSheets/BurnSafe.html>)

Pepper Ball Launchers and Pepper Ball Munitions

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 the SWAT unit. 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 consistent with Penal Code section 13652, 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. The use of pepper ball munitions is only authorized under certain circumstances and is contingent on the approval of a SWAT supervisor absent exigent circumstances.

Pepper ball launchers and pepper ball munitions are classified as specialty munitions and specific uses are governed under DP 1.36 – Use of Specialty Munitions, DP 1.04 – Use of Force, and 4.17 First Amendment Activity Facilitation and Management.

Training Requirements: SWAT Officers must successfully complete a month long SWAT Academy to be certified in the use of pepper ball launchers and pepper ball munitions. SWAT Officers undergo regular extensive classroom and live fire proficiency training. Additionally, SWAT Officers are required to qualify with pepper ball launchers on a regular basis to maintain proficiency.

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:



Tippmann FT-12 Pepper Ball Launcher (Quantity: See Appendix A)

Manufacturer: Tippmann

Manufacturer Description: The Tippmann FT-12 paintball marker incorporates modular internals to help reduce maintenance time by 75 percent. The FT-12 is a groundbreaking rental marker for field owners that can be serviced in less than 60 seconds without tools. The FT-12 is a compact marker with an ergonomically-positioned front vertical grip, which is ideal for a wide range of players. The marker's patent-pending design makes gaining access to internals significantly easier – simply degas the marker, unscrew the barrel, push the unlock button on the collar, remove the barrel nut and flip the top half of the receiver off. Once inside, the modular layout of the FT-12 allows for incredibly fast and worry-free access to all key parts.

(Photo and description source: https://www.discountpaintball.com/Tippmann-FT-12-LITE-Rental-Paintball-Marker-5-Pack_p_11754.html)



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.

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



Safe Munitions OC2 – Projectile Pepper Ball Munition (Quantity: See Appendix A)

Manufacturer: Mission Less Lethal Technologies

Manufacturer Description: Safe Munitions close a critical gap between limited stand-off devices like batons, pepper spray, or a conducted energy weapon (CEW), and high kinetic devices like 12-gauge, rubber bullets, and 37/40mm. In a time of unprecedented social unrest, our truly less-lethal platforms help agencies mitigate threats using minimal force.

(Photo and description source: <https://botach.com/mission-technologies-level-2-oc2-68-cal-munitions/>)



Mission 1.1% OC – Projectile Pepper Ball Munition (Quantity: See Appendix A)

Manufacturer: Mission Less Lethal Technologies

Manufacturer Description: The PAVA Max Payload Less Lethal Live Rounds are ideally suited for riot situations where officers need to create an intense barrier cloud of extremely hot pepper irritant. They are highly effective for safely dislodging barricaded suspects by filling enclosed spaces with an insufferable cloud of irritant powder, and fill many other less-lethal roles as well.

(Description source: https://www.jpypolicesupply.com/Mission-OC-1-Law-Enforcement-Grade-Mission-Live-Agent-Less-Lethal-Rounds-OC-Jar-of-100-_p_365.html)

PepperBall Glass Breaker – Projectile Pepper Ball Munition (Quantity: See Appendix A)



[*NOTE: This projectile is utilized for glass breaking applications only.]

Manufacturer: PepperBall

Manufacturer Description: Used to break side glass of vehicles and residential glass windows.

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



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.

(Photo and description source: <https://www.pepperball.com/products/inert/>)



Safe Munitions Inert– Projectile Pepper Ball Munition (Quantity: See Appendix A)

[*NOTE: This projectile is utilized for training purposes only and contains no chemical agent.]

Manufacturer: Mission Less Lethal Technologies

Manufacturer Description: No manufacturer description.



Duke Defense Hazard OC2 – Projectile Pepper Ball Munition

(Quantity: See Appendix A)

Manufacturer: Duke Defense

Manufacturer Description: Hazard rounds contain a Oleoresin Capsicum OC and Pava Mixture and are one of the most powerful pepper rounds on the market. When shot from a launcher and once impacted upon the target, the bursting of the round and the release of our irritant will affect the olfactory, optic, and respiratory senses.

(Photo and description source: <https://supplyleader.com/product/Duke-Hazard-68cal-Pepper-projectiles-25-Count-Duke-Hazard-self-Defense-Balls-Ammo-HD-Pepper-oc-BYRNA-HD/B09943NFD2>)



Duke Defense 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: Our inert rounds are filled with talc powder. Talc or talcum, is a clay mineral, composed of hydrated magnesium silicate with the chemical formula $Mg_3Si_4O_{10}(OH)_2$. Talc in powdered form, often combined with corn starch, is used as baby powder, burst upon impact to simulate our irritant cloud dispersal.

(Photo and description source: <https://supplyleader.com/product/Duke-Hazard-68cal-Pepper-projectiles-25-Count-Duke-Hazard-self-Defense-Balls-Ammo-HD-Pepper-oc-BYRNA-HD/B09943NFD2>)

Sting Ball Munitions

Sting Ball Munitions: Canisters that are designed to emit loud noise, bright light, and rubber projectiles.

Capability: Sting Ball Munitions are capable of releasing large amounts of stored energy in the form of heat, light, pressure, and noise. Additionally upon deflagration, Sting Ball Munitions release numerous rubber pellets to impact a suspect(s) in close proximity to the placement area. Currently two variants are possessed by the Department, one with CS chemical agent and one without. They are intended to temporarily distract, confuse, disorient, and impact suspects that are potentially armed, knowingly armed, and/or violent. They are also effective as a crowd management tool in limited circumstances when confronting violent crowds during civil unrest consistent with Penal Code section 13652.

Usage: Sting Ball Munitions are to be used exclusively by the SWAT Unit. Sting Ball Munitions can be used in high risk tactical operations when confronting potentially armed, knowingly armed, or violent suspects. They can also be used during high risk warrants, hostage rescue incidents, and in limited instances during mobile field force incidents to provide an added degree of officer safety when being confronted by violent and/or armed subjects.

The usage of Sting Balls is also governed under DP 1.36 – Use of Specialty Munitions, DP 1.04 – Use of Force, and 4.17 First Amendment Activity Facilitation and Management.

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

Fiscal Impact: See Appendix B

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

The Department currently possesses the following types of Sting Ball Munitions:



Stinger CS Rubber Ball Grenade – Model 1088 (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Stinger CS Rubber Ball Grenade is a maximum effect device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and CS. The Stinger Grenade is most widely used as a crowd management tool by Law Enforcement and Corrections. The Stinger Grenade has an initial 1.5 second delay that initiates fuse assembly separation, followed by another .5 second delay before the blast which is sufficient to project the rubber balls and chemical agent in a 50 foot radius.

(Photo and description source: <https://www.defense-technology.com/product/stinger-cs-rubber-ball-grenade/>)



Stinger 32-Caliber CS Rubber Balls with Safety Clip – Model 1090SC (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Stinger Rubber Ball Grenade with safety clip is a maximum effect device that delivers three stimuli for psychological and physiological effects: rubber pellets, light, and sound. The Stinger Rubber Ball Grenade is most widely used as a crowd management tool by Law Enforcement and Corrections. The Stinger Rubber Ball Grenade has an initial 1.5 second delay that initiates fuse assembly separation, followed by another .5 second delay before the blast which is sufficient to project the rubber balls in a 50 foot radius.

(Photo and description source: <https://www.defense-technology.com/product/stinger-32-caliber-rubber-balls-w-safety-clip/>)



Stinger 60-Caliber Rubber Balls with Safety Clip – Model 1087SC (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The Stinger Grenade with safety clip is a maximum effect device that delivers three stimuli for psychological and physiological effects: rubber pellets, light and sound. The Stinger Grenade is most widely used as a crowd management tool.

(Photo and description source: <https://www.defense-technology.com/product/stinger-60-caliber-rubber-balls-w-safety-clip/>)

Long Range Acoustic Device (LRAD)

Long Range Acoustic Device (LRAD): The LRAD is a type of loudspeaker system that emits a focused and directional beam of sound.

Capability: The sound levels of this device are controllable and range from a mild public address type speaker sound level, for giving directions, to a high intensity, high pitch sound designed to deter or move subjects from an area.

Usage: The LRAD can be used as a PA to issue Emergency Evacuation Orders, communicate with a subject during a law enforcement operation where direct communication is not possible, or to relay directions to a crowd in a noisy environment (unlawful assembly announcements).

The usage guidelines of the LRAD are also governed under DP 1.46 – Use of the Long Range Acoustic Device, 4.17 First Amendment Activity Facilitation and Management.

Training Requirements: The training requirements of the LRAD are also governed under DP 1.46 – Use of the Long Range Acoustic Device, 4.17 First Amendment Activity Facilitation and Management.

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 500 X-RE - 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's:



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

Manufacturer: Genasys

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.

(Photo and description source: <https://genasys.com/lrad-products/>)



LRAD – Model 500 X-RE (Quantity: See Appendix A)

Manufacturer: Genasys

Manufacturer Description: Compact, lightweight and designed for applications ranging from fixed security installations to mid-sized vehicles and vessels, the LRAD 500X-RE easily mounts and transports to provide law enforcement, homeland security, and defense personnel unparalleled long-range communication and safe, scalable non-kinetic escalation of force.

(Photo and description source: <https://genasys.com/lrad-products/>)

40mm Launchers

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. The Department also has a limited inventory of 37mm launchers that share the same characteristics as 40mm launchers but are chambered for 37mm munitions. (40mm launchers and 37mm launchers are considered “Projectile Launch Platforms” under AB-481).

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 are may be deployed to impact subjects demonstrating assaultive behavior or life-threatening behavior, as defined in Department Procedure 1.04, 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 of Department Procedure 1.04, 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 officer that has been trained in its use and maintains current ERIW qualifications.

The usage guidelines for the 40mm single shot launcher are governed under DP 1.38 - Extended Range Impact Weapon (ERIW) Systems and DP 1.04 – Use of Force.

40mm single shot and multi-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.
37mm single shot launchers 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 under DP 1.38 - Extended Range Impact Weapon (ERIW) Systems and DP 1.04 – Use of Force.

SWAT Officers that are authorized to use 40mm single shot and multi-shot launchers and related munitions must successfully complete a month long 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.

The use and training requirements for the 40mm single shot and multi-shot launcher as applicable to SWAT Officers are governed under DP 1.38 - Extended Range Impact Weapon (ERIW) Systems, DP 1.36 – Use of Specialty Munitions, DP 1.04 – Use of Force, and 4.17 First Amendment Activity Facilitation and Management.

Fiscal Impact: See Appendix B

Lifespan: Penn Arms 40mm Launchers – No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

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

Defense Technology 37mm Launchers – No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

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

Penn Arms – Model GL1-40 (40mm Single Shot Launcher) (Quantity: See Appendix A)

Manufacturer: Penn Arms

Manufacturer Description: A 40mm single-shot break-open frame launcher with a rifled barrel and fixed stock. Features include: Double-action trigger, trigger lock push button and hammer lock safeties.



Penn Arms – Model GL1-40 (pictured above)

(Photo and description source: <https://www.combinedsystems.com/product/l140-1-single-launcher-fixed-stock-combo-rail/>)

Penn Arms – Model PGL 65-40 (40mm Multi-shot Launcher) (Quantity: See Appendix A)

[*NOTE: For exclusive use by the SWAT Unit only.]

Manufacturer: Penn Arms

Manufacturer Description: A 40mm pump-action advance magazine drum launcher with a fixed stock and combo rail. It has a six-shot capacity and rifled barrel. Features include: Double-action trigger, trigger lock push button and hammer lock safeties.



Penn Arms – Model PGL 65-40 (pictured above)

(Photo and description source: <https://www.combinedsystems.com/product/p540-1-pump-multi-launcher-5-cyl-fixed-stock-w-combo-rail-pgl-65-40/>)

Def Tech – Model 1426 (40 mm Single Shot Launcher) (Quantity: See Appendix A)

Manufacturer: Defense Technology

Manufacturer Description: The 40LMTS is a tactical 40mm single shot launcher that features an adjustable Integrated Front Grip (IFG). The Ambidextrous Lateral Sling Mount (LSM) and QD mounting systems allow both a single and two point sling attachment. The 40LMTS will fire standard 40mm Less Lethal ammunition, up to 4.8 inches in cartridge length.

**Def Tech – Model 1426 (pictured above)**

(Photo and description source: <https://www.defense-technology.com/product/40mm-lmt-tactical-single-launcher-folding-stock/>)

Def-Tec – Model 37mm Gas Gun (37mm Single Shot Launcher) (Quantity: See Appendix A)

[*NOTE: For exclusive use by the SWAT Unit only.]

37mm launchers are considered “Projectile Launch Platforms” under AB-481.

Manufacturer: Def-Tec Corp

Manufacturer Description: No manufacturer description.

**Def-Tec – Model 37mm Gas Gun (pictured above)**

(Photo source: <https://www.defense-technology.com/product/37mm-lmt-tactical-single-launcher-expandable-stock/>)

LMT – Model 1440 (40mm 4-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 Model 1440 40mm Tactical 4-Shot Launcher is low-profile and lightweight, providing multi-shot capability in an easy to carry launcher. It features the Rogers Super Stoc expandable gun stock, an adjustable Picatinny mounted front grip, and a unique direct-drive system to advance the magazine cylinder.



LMT – Model 1440 (pictured above)

(Photo and description source: <https://www.defense-technology.com/product/40mm-tactical-4-shot-launcher/>)

Beanbag Shotguns

Beanbag Shotguns: This ERIW is a standard Remington Model 870, 12-gauge shotgun that has been modified with an orange stock and fore-end.

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 Department Procedure 1.04, 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 Department Procedure 1.04, 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. 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 DP 1.38 - Extended Range Impact Weapon (ERIW) Systems, DP 1.04 – Use of Force, and DP 1.05 Firearms.

Training Requirements: Officers that have been trained 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 governed under DP 1.38 - Extended Range Impact Weapon (ERIW) Systems, DP 1.04 – Use of Force, and DP 1.05 Firearms.

Fiscal Impact: See Appendix B

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

The Department currently possesses the following types of beanbag shotguns:

Remington 870 Police – 12 gauge Beanbag Shotgun (outfitted with orange buttstock and orange foregrip) (Quantity: See Appendix A)

Manufacturer: Remington

Manufacturer Description: The Remington 870 Police pump-action shotgun is a rugged 12-gauge with a short, tactical 18” barrel backed by a stout 3” chamber. The all-matte black gun is Parkerized for generalized durability and rust-resistance. Both the pump action forend and stock are robust and tough synthetic.



Remington 870 Police – 12 gauge Beanbag Shotgun (pictured above)

(Photo and description source: <https://www.gunbroker.com/Remington-870-Police/search?Keywords=Remington%20870%20Police&s=f>)

40mm Ammunition

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 and 37mm Chemical Agents munitions, see Chemical Agents section.)

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 Department Procedure 1.04, 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, within the force guidelines of Department Procedure 1.04, 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 ammunition used in conjunction with 40mm launchers 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 40mm single shot launcher are governed under DP 1.38 - Extended Range Impact Weapon (ERIW) Systems and DP 1.04 – Use of Force.

40mm single shot and multi-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. 37mm single shot launchers combined with any 37mm munitions 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 DP 1.38 - Extended Range Impact Weapon (ERIW) Systems and DP 1.04 – Use of Force.

SWAT Officers that are authorized to use 40mm single shot and multi-shot launchers and related munitions must successfully complete a month long SWAT Academy and undergo extensive classroom and live fire training. Additionally, SWAT Officers are required to regularly train and qualify with 40mm launchers and 37mm projectile launch platforms on a regular basis to maintain proficiency.

The use and training requirements for the 40mm single shot and multi-shot launcher and related munitions as applicable to SWAT Officers are governed under DP 1.38 - Extended Range Impact Weapon (ERIW) Systems, DP 1.36 – Use of Specialty Munitions, DP 1.04 – Use of Force, and 4.17 First Amendment Activity Facilitation and Management.

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:



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.

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

Beanbag Ammunition

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 Department Procedure 1.04, 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 Department Procedure 1.04, 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. 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 DP 1.38 - Extended Range Impact Weapon (ERIW) Systems, DP 1.04 – Use of Force, and DP 1.05 Firearms.

Training Requirements: Officers that have been trained 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 governed under DP 1.38 - Extended Range Impact Weapon (ERIW) Systems, DP 1.04 – Use of Force, and DP 1.05 Firearms.

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:



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

Manufacturer: Combined Tactical Systems

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.

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

Specialty Impact Munitions (SIM)

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 allows 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, SIM's 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 SIM's (5.56mm) are used exclusively by the SWAT Unit for training purposes only. Pistol caliber SIM's (9mm) are 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 month long 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 SIM's for training purposes.

Fiscal Impact: See Appendix B

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

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

UTM M16/M4 Rifle Bolt Carrier Assembly (Blue Bolt) – 24 month limited warranty. No lifespan indicated by manufacturer. Lifespan varies on operational usage and wear.

Simunition Conversion Barrels 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 Munion (SIM) barrel conversion kits:



UTM 5.56mm Man Marker Rounds (MMR) –Model 01-0972 (Blue)
(Quantity: See Appendix A)

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

Manufacturer: Ultimate Training Munitions

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 allows for multiple firearms, CQB, and marksmanship applications (360° firing, movement drills, weapon transitions).

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



Force on Force Simunition 9mm Marking Rounds (Quantity: See Appendix A)

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

Manufacturer: Force on Force

Manufacturer Description: Force on Force marker rounds boast superior performance, signature marking and reliable ballistics. Unlike other products on the market, Force on Force training ammunition is lead-free and safe for indoor use. Our special marking agent has an extended shelf-life and leaves a distinctive mark on target.

(Photo and description source: https://www.forceonforce.com/products/training_ammunition.aspx)

UTM M16/M4 Rifle Bolt Carrier Assembly (Blue Bolt) (Quantity: See Appendix A)

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

Manufacturer: Ultimate Training Munitions (UTM)

Manufacturer Description: All UTM 5.56mm rifle conversions employ a Fail-Safe measure where the firing pin is offset from center. Not only is the firing pin strike outside the strike area of a “Live” cartridge center fire primer, it does not strike the primer at all, hence the weapon fails to fire the host weapons “Live” caliber ammunition. This applies to all UTM rifle conversions.



UTM M16/M4 Rifle Bolt Carrier Assembly (picture above)

(Photo and description source: <https://utmworldwide.com/conversions/rifle-conversions/>)

Simunition Smith and Wesson 590X Barrel (9mm) – Product Number 5302080 (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.



Simunition Smith and Wesson 590X Barrel 9mm (pictured above)

(Photo and description source: https://simunition.com/en/products/conversion_kits)

Simunition Beretta 92 FS (M9) Barrel (9mm) – Product Number 5308270 (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.



Simunition Beretta 92 FS (M9) Barrel 9mm (pictured above)

(Photo and description source: https://simunition.com/en/products/conversion_kits)

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.



Simunition Glock 17 Barrel and Slide Assembly 9mm (pictured above)

(Photo and description source: https://simunition.com/en/products/conversion_kits)

Night Vision Optical Devices

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 K-9 Units. 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 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. 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:



Binocular Night Vision Device (BNVD) – Model AN/PVS-31 (Quantity: See Appendix A)

Manufacturer: L3Harris

Manufacturer Description: The L3Harris Binocular Night Vision Device, also known by the military nomenclature AN/PVS-31A, is a compact, lightweight, Generation III high-performance white phosphor dual-tube goggle.

(Photo and description source: <https://www.l3harris.com/all-capabilities/binocular-night-vision-device-bnvd-an-pvs-31>)



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.

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



Clip-On Night Vision Device M2124 – Model AN/PVS-24 (Quantity: See Appendix A)

Manufacturer: L3Harris

Manufacturer Description: The L3Harris Clip-On Night Vision Device (CNVD) is a night vision sight that clips onto the rail in front of the existing day optic without altering day optic zero. Designed for use with a 4x magnified optic, the CNVD can be used in the handheld or weapon-mounted configuration. Manual gain and focus adjustment enable the operator to optimize the sight picture. The CNVD is based upon the military nomenclature AN/PVS-24/24A used by the U.S. Military.

(Photo and description source: <https://www.l3harris.com/all-capabilities/clip-night-vision-device-m2124-anpvs-2424a>)

Infrared Sighting Systems

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, provide 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:



Advanced Target Pointer Illuminator Aiming Laser (ATPIAL) – Model AN/PEQ-15 (Quantity: See Appendix A)

Manufacturer: L3Harris

Manufacturer Description: The L3Harris ATPIAL is a small, lightweight, easy-to-use aiming system with integrated infrared and visible aiming lasers as well as an infrared illuminator. The ATPIAL is also known by the military nomenclature AN/PEQ-15. The system is available in standard power or high power configurations.

(Photo and description source: <https://www.l3harris.com/all-capabilities/advanced-target-pointer-illuminator-aiming-laser-atpial-an-peq-15>)

Military Equipment Use Summary 2021

The City of San Diego is the eighth largest city by population in the United States and is home to over 1.3 million people. The volume of calls for service the San Diego Police Department responds to on an annual basis reflects a population of that size. In 2020, the San Diego Police Department responded to over 567,000 calls for service. In 2021, the Department responded to nearly 569,000 calls for service.

A Department study was conducted from July 1, 2018, through September 30, 2020, gathering stop data by officers. The study showed during that time frame spanning in excess of two years, San Diego Police Officers contacted 394,963 people. Of those contacts, force was used in only two (2) percent of the stops (7,916 documented uses of force). Of the force options utilized, military equipment in the form of projectiles were only used in 0.6% of those stops (48 times). This study illustrates the relatively few instances of force used by San Diego Police Officers in relation to overall contacts. Moreover, force used involving the use of military equipment appears to be an even smaller subset of the overall force used during this time span.

While the San Diego Police Department's inventory of military equipment is varied, the mere possession of the equipment does not warrant its use for every incident. The San Diego Police Department recognizes that critical incidents are unpredictable and can be very dynamic in nature. A variety of military equipment options can greatly assist incident commanders, officers, and specific units in bringing those incidents to a swift resolution in a safe manner. The use of military equipment is restricted for use only in certain instances and in some cases only by certain units.

This section outlines the military equipment usage for 2021. Certain items of military equipment, particularly consumables (ammunition, diversionary devices, pepper balls, chemical agents, etc.) are used throughout the year on a regular basis for training in order to maintain proficiency. Training usage is **not** captured in this section. This section only provides data for the **operational use** of military equipment listed within this Annual Equipment Report.



The following is the data for military equipment usage by category for 2021 (categories are sorted in a similar order to the Military Equipment Descriptions section above):

Small Unmanned Aircraft Systems (sUAS) Usage

Small Unmanned Aircraft Systems (sUAS) were utilized a total of six **(6)** times in 2021. These usages include:

- Conducted venue perimeter aerial security sweeps for the U.S. Open Golf Tournament.
- Conducted venue perimeter aerial security sweeps for the Farmers Open Golf Tournament.
- Supported SDPD SWAT Team on a high risk warrant service. sUAS was deployed to monitor numerous suspects fleeing the target location and obtain a real time aerial view of the target location prior to the SWAT Team arriving.
- Conducted evidence collection, (aerial photography/video), for the District Attorney and the SDPD Special Operations Unit in support of an investigation on a multi gang shooting incident at a hotel venue.
- Supported the SDPD SWAT Team on a high risk warrant service (Narcotics Unit). sUAS was deployed to conduct an interior visual assessment to ensure no other persons or threats were inside of the target location prior to the SWAT Team making entry.
- Supported the SDPD SWAT Team on a high risk warrant service (Ghost Gun manufacturing and narcotics). sUAS was deployed to conduct an interior visual assessment to ensure no other persons or threats were inside of the target location prior to the SWAT Team making entry.

Small Unmanned Tracked Robots Usage

Small Unmanned Tracked Robots were utilized a total of **20** times in 2021. These usages were all related to clearing the interior of structures for armed or potentially armed suspects during SWAT call outs or SWAT high risk warrant services.

Bearcat (Armored Personnel Carrier) Usage

Bearcats were utilized a total of **23** times in 2021. These usages were all related to SWAT callouts or SWAT high risk warrant services. In those instances, the Bearcats were used as mobile cover for SWAT Officers since those vehicles offer a high degree of ballistic protection.

Mobile Command Vehicle Usage

Mobile Command Vehicles were utilized a total of **79** times in 2021. For some of the Mobile Command Vehicles, the deployments lasted multiple days depending on the scope and duration of the mission. The usage breakdown is as follows:

Mobile 1: 10 deployments

- 3 High Visibility Crime Prevention Details
- 2 Special Events
- 3 Beach Operations
- 1 Gun Buy Back Operation

Mobile 2: 3 deployments

- 3 High Visibility Crime Prevention Details

Mobile 3: 3 deployments

- 2 Beach Operations
- 1 County Wide Operation

Mobile 4: 8 deployments

- 6 Special Events
- 2 Beach Operations

ENT Command Vehicle: 32 deployments (all ENT related)

SWAT Special Equipment Vehicle (SEV): 23 deployments (all SWAT call outs or SWAT high risk warrant services)

Explosive Breaching Equipment Usage

Explosive Breaching Equipment was utilized a total of one **(1)** time operationally in 2021. In this instance, an explosive breach was utilized to breach the front door of an apartment containing a suspect armed with a handgun that threatened a resident. The explosive breach commenced after hours of unsuccessful negotiations between Emergency Negotiators and the suspect and only after the initial volley of chemical agents proved to be ineffective.

Breaching Shotgun and Breaching Ammunition Usage

Breaching Shotguns and Breaching Ammunition were utilized zero **(0)** times operationally in 2021.

.50 Caliber Rifles Usage

.50 Caliber Rifles were utilized zero **(0)** times operationally in 2021.

Specialized Firearms Usage (AR-15 Rifles, .308 Bolt-Action Sniper Rifles, and .308 Semi-Auto Sniper Rifles)

For 2021, the Department tracks firearms usage under the following categories:

- Use of Force
- Show of Force
- Officer Involved Shootings

(*NOTE: While firearms usage is tracked, the current data set is not classified by which firearm type was used in the incident (i.e. There is no delineation between an officer pointing a handgun at a person versus an officer pointing an AR-15 at a person. In these instances, it is counted solely as a use of force incident with an officer pointing a firearm at a person). In 2022, data collection will be changed to more accurately reflect the firearm sub-types for statistical purposes. For 2021, since firearm usage was tracked as a broad category without firearm specific sub-types, the usage data provided specifically for AR-15 rifles is not completely accurate as it may be a combination of AR-15 usage and handgun usage combined. Regardless, the data totals are indicated below. For .308 Bolt-Action Sniper Rifles and .308 Semi-Automatic Sniper Rifles, the data sets are more accurate as their usage is tracked in a separate SWAT specific deployment database.)

AR-15 Rifles

Firearms were utilized a total of **1751** times in 2021. The usage breakdown is as follows:

(*NOTE: Due to the data collection methodology for 2021, these figures represent handgun, shotgun, and AR-15 usage combined. In 2022, data collection will be changed to more accurately reflect the firearm sub-types for statistical purposes.)

- Use of Force Firearms Incidents (pointing a firearm at a person to gain compliance): **1408**
- Show of Force Incidents (deploying with a firearm at an incident, but not actually pointing it at a person): **343**
- Officer Involved Shootings involving the use of an AR-15: **0**

.308 Semi-Automatic Sniper Rifles

.308 Semi-Automatic Sniper Rifles were utilized a total of **135** times in 2021. The usage breakdown is as follows:

- Deployments involving Sniper Over Watch at Special Events (i.e. baseball games, concerts, marathons, golf tournaments, large conventions, etc.): **125**
 - Deployments involving Sniper Over Watch at SWAT Missions (SWAT Callouts, SWAT high risk warrant services, or other SWAT Missions): **10**
 - Officer Involved Shootings involving the use of a .308 Semi-Automatic Rifle: **1**
- (*NOTE: This OIS is also counted as one of the deployments of a .308 Semi-Automatic Rifle at a SWAT Mission.)**
- This OIS is one of two (2) concurrent Officer Involved Shooting (OIS) investigations involving two SWAT Sniper Officers from the same OIS incident. In this instance both SWAT Sniper Officers discharged their .308 Sniper Rifles simultaneously to address an armed and hostile suspect with a hostage. During this incident one SWAT Sniper Officer engaged the suspect with a .308 Semi-Automatic Sniper Rifle and the other SWAT Sniper Officer engaged the suspect with a .308 Bolt-Action Sniper Rifle. (At the time of this report's publication, this investigation is still open and has not yet been adjudicated).

.308 Bolt-Action Sniper Rifles

.308 Bolt-action Sniper Rifles were utilized a total of **135** times in 2021. The usage breakdown is as follows:

- Deployments involving Sniper Over Watch at Special Events (i.e. baseball games, concerts, marathons, golf tournaments, large conventions, etc.): **125**
 - Deployments involving Sniper Over Watch at SWAT Missions (SWAT Callouts, SWAT high risk warrant services, or other SWAT Missions): **10**
 - Officer Involved Shootings involving the use of a .308 Bolt-Action Sniper Rifle: **1**
- (*NOTE: This OIS is also counted as one of the deployments of a .308 Bolt-Action Sniper Rifle at a SWAT Mission.)**
- This OIS is one of two (2) concurrent Officer Involved Shooting (OIS) investigations involving two SWAT Sniper Officers from the same OIS incident. In this instance both SWAT Sniper Officers discharged their .308 Sniper Rifles simultaneously to address an armed and hostile suspect with a hostage. During this incident one SWAT Sniper Officer engaged the suspect with a .308 Semi-Automatic Sniper Rifle and the other SWAT Sniper

Officer engaged the suspect with a .308 Bolt-Action Sniper Rifle. (At the time of this report's publication, this investigation is still open and has not yet been adjudicated).

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers and Related Munitions Usage

Diversionsary Devices aka Flashbangs

Diversionsary Devices were utilized a total of **11** times in 2021. In all of these instances, the Diversionsary Devices were utilized as attention getting devices related to SWAT call outs or SWAT high risk warrant services.

Chemical Agents

Chemical Agents were utilized a total of three (**3**) times in 2021. The usages were all related to high risk SWAT callouts involving armed, barricaded suspects that refused to surrender after lengthy negotiations.

Chemical Agent Delivery Devices

Chemical Agent Delivery Devices were utilized a total of zero (**0**) times operationally in 2021.

Pepper Ball Launchers and Related Munitions

Pepper Ball Launchers and Related Munitions were utilized a total of **22** times in 2021. These usages are as follows:

- **20** - Barricaded suspects in a structure or vehicle related to a SWAT call out
- **2** - Civil Unrest incidents wherein a Mobile Field Force deployment was called and resulted in officers being struck with numerous projectiles by violent crowds

Long Range Acoustic Device (LRAD) Usage

The LRAD's were utilized a total of zero (**0**) times operationally in 2021.

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

40mm Launchers and Related Munitions

40mm Launchers and related munitions were utilized a total of **15** times in 2021. These usages are as follows:

- **8** – instances wherein a suspect was **impacted** by 40mm munitions
- **5** – instances wherein officers displayed a 40mm launcher to gain compliance from a suspect
- **2** – instances wherein SWAT Officers utilized 40mm launchers to deliver chemical agents into structures containing an armed and barricaded suspect.

Beanbag Shotguns and Related Munitions

Beanbag Shotguns and related munitions were utilized a total of **71** times in 2021. These usages are as follows:

- **29** –instances wherein an armed, potentially armed, or violent suspect was **impacted** by a beanbag shotgun round
- **42** – instances wherein officers displayed a beanbag shotgun to gain compliance from a suspect

Specialty Impact Munitions (SIM's)

SIM's were utilized zero (**0**) times operationally in 2021. SIM's were utilized on a regular basis for training purposes by the SWAT Unit, Police Academy, and In-Service Training Unit throughout the year. SIM's are non-operational rounds and used strictly for training only.

Night Vision Equipment and Infrared Sighting Systems Usage

Night Vision Optical Devices and Infrared Sighting Systems

Night Vision Optical Devices and Infrared Sighting Systems were utilized a total of **10** times operationally in 2021. In all of these instances, the Night Vision Equipment was utilized to gain a tactical advantage and enhance officer safety during low light operations during SWAT call outs or SWAT high risk warrant services.



Complaints Summary Regarding Military Equipment Usage

In some instances, the application and use of military equipment may cause questions and/or concerns for members of the community. It is vitally important that community members' questions regarding the application and use of military equipment are addressed.

The San Diego Police Department is committed to full and fair investigation of citizen complaints. As such, the Department has sound internal procedures for thorough and impartial investigations of citizen complaints. Resolving complaints in a fair, impartial, and expeditious manner will ensure the consistent high level of integrity and efficiency maintained by the Department.

The following are a summary of formal investigations or officer involved shootings related to the use of military equipment as investigated by the San Diego Police Department's Internal Affairs Unit for 2021 (the investigations are sorted by military equipment type):

Beanbag Shotgun – Use of Force Complaint Investigation 2021

- There is one (1) use of force complaint investigation regarding an incident wherein a beanbag shotgun was fired at an armed and violent suspect. (As of the time of this report's publication, this investigation is still open and has not yet been adjudicated).

.308 Bolt-Action Sniper Rifle and .308 Semi-Auto Sniper Rifle – Officer Involved Shooting (OIS) Investigation 2021

- There are two (2) concurrent Officer Involved Shooting (OIS) investigations involving two SWAT Sniper Officers from the same OIS incident. In this instance, both officers discharged their .308 rifles (one .308 Bolt-Action Sniper Rifle and one .308 Semi-Auto Sniper Rifle) simultaneously to address an armed and hostile suspect threatening a hostage with a gun. (At the time of this report's publication, this investigation is still open and has not yet been adjudicated).

Summary and Responses to Military Equipment Procedure Violations

NOT APPLICABLE FOR 2021.

(*NOTE: Since the Military Equipment Use Procedure and AB-481 was not effective until January 1, 2022, there is no data regarding military equipment violations for 2021. For 2022, military equipment procedure violations and responses to those violations will be tracked. That data will be disclosed in the 2022 Annual Military Equipment Report.)

Military Equipment Inventory

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. 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 report's publication.)

Small Unmanned Aircraft Systems (sUAS)	
Equipment Name and Model / Manufacturer	Quantity
DJI Phantom 4 Pro / DJI	2
DJI Phantom Pro V 2.0 / DJI	2
DJI Matrice 210 / DJI	1
DJI Mavic Air / DJI	2
DJI Mavic 2 Enterprise Dual / DJI	1
Shield A.I. Nova / Shield A.I.	2
Parrot Anafi Thermal / Parrott	8
Acecore Zoe / Acecore Technologies	2

Small Unmanned Tracked Robots	
Equipment Name and Model / Manufacturer	Quantity
Mini-CALIBER / ICOR Technology	2
First Look / Teledyne FLIR	4

Armored Personnel Carriers	
Equipment Name and Model / Manufacturer	Quantity
Bearcat G2 (2 Door) / Lenco	1
Bearcat G3 (4 Door CBRNE Capability) / Lenco	1

Command and Control Vehicles	
Equipment Name and Model / Manufacturer	Quantity
SWAT Special Equipment Vehicle (SEV) / Mattman Global Specialty Vehicles	1
Mobile 1 – Command Post Vehicle / Matthews Specialty Vehicles	1
Mobile 2 – Command Post Vehicle / Unknown Manufacturer	1
Mobile 3 – Mobile Decontamination Prisoner Processing Vehicle / Matthews Specialty Vehicles	1
Mobile 4 – Command Post Vehicle / Nomad	1
Emergency Negotiations Team (ENT) Command Vehicle / Unknown Manufacturer	1

Explosive Breaching Equipment	
Equipment Name and Model / Manufacturer	Quantity
Explosive Breaching Kit / Southwest Explosives	2

Breaching Shotguns and Breaching Ammunition	
Equipment Name and Model / Manufacturer	Quantity
Remington 870 Police Magnum Breaching Shotgun / Remington	8
Serbu Super Shorty Breaching Shotgun / Serbu Firearms	1
CTS Model 2570 Breaching Shotgun Rounds / CTS	Approx. 200
TKO 12 Gauge Breaching Shotgun Rounds / Defense Technology	Approx. 50
TESAR-1 Breaching Shotgun Rounds - Model FE182 / Royal Arms International	0 (Currently on order)
TESAR-2 Breaching Shotgun Rounds - Model FE183 / Royal Arms International	0 (Currently on order)
TESAR-4 Breaching Shotgun Rounds - Model FE185 / Royal Arms International	0 (Currently on order)
TESAR-5 Breaching Shotgun Rounds - Model FE189 / Royal Arms International	0 (Currently on order)

.50 Caliber Rifles	
Equipment Name and Model / Manufacturer	Quantity
Bushmaster BA 50/ Bushmaster	1
Barrett Model 99/ Barrett Firearms	1
Armalite AR-50 / Armalite	1

.50 Caliber Ammunition	
Equipment Name and Model / Manufacturer	Quantity
Frangible Ammunition - .50 BMG 600 grain Engel Ballistic Research/ Engel Ballistic Research	0
Match Ammunition - .50 BMG .510" 750 grain Hornady A-Max / Hornady Ammunition	Approx. 130
Armor Piercing Ammunition .50 BMG (Non-Tungsten Core) / Unknown manufacturer	Approx. 120
Military Grade Ball .50 BMG (full metal jacket) / Unknown manufacturer	Approx. 250
Military Grade Tracer .50 BMG / Unknown manufacturer	Approx. 75

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 LE 6920 Series / Colt Manufacturing LLC	106
AR-15 Colt Carbine LE 6933 Series / Colt Manufacturing LLC	220
AR-15 Daniel Defense DDM4 V4SBR / Daniel Defense	110
DPMS 5.56 AR-15 / DPMS	1
Olympic Arms 5.56 AR-15 / Olympic Arms	1
.308 Semi-auto Rifle - JP Enterprises LRP-07 / JP Enterprises	19
.308 Semi-auto Rifle M&P 10 / Smith & Wesson	1
.308 Bolt Action Rifle – Accuracy International AX .308 / Accuracy International	19
HK MP5 Submachine Gun / Heckler & Koch	89
Miscellaneous Crime Lab Assault Weapons	Over 142 various calibers, models, and types

Specialized Firearms and Ammunition of less than .50 cal, Including Assault Weapons	
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
Black Hills Ammunition 5.56mm 62 grain (RRLP) Shoothouse Training Ammunition / Black Hills Ammunition	Approx. 13,000 rounds
Federal Premium Tactical TRU .308 Winchester Ammunition / Federal	Approx. 29,000 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)

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers	
Equipment Name and Model / Manufacturer	Quantity
Diversiónary Devices aka Flashbangs	
Rheinmetall 1 Bang Vanguard BTV-EL (Flashbang) / Rheinmetall	Approx. 225
Rheinmetall 6 Bang Vanguard BTV-EL (Multi- bang Flashbang) / Rheinmetall	Approx. 60
Rheinmetall 9 Bang Vanguard BTV-EL (Multi- bang Flashbang) / Rheinmetall	Approx. 150
Rheinmetall 1 Bang (Training Device) / Rheinmetall	60 Devices Approx. 1000 Reloadable Fuses
ALS09NR (Flashbang) / ALS Defense	Approx. 30
ALS4140B (Training Device) / ALS Defense	69 Devices Approx. 69 Fuses
Chemical Agents	
CTS #6343- OC-CS Vapor Grenade / CTS	Approx. 47
CTS #5230B – CS Baffled Canister Grenade, Pyro, Low Flame Potential / CTS	Approx. 20
Chemical Agent CS Canister #2 – Model 1072 SPEDE-HEAT Continuous Discharge Chemical Grenade CS / Defense Technology	Approx. 200

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)	
Equipment Name and Model / Manufacturer	Quantity
Chemical Agents (continued)	
Chemical Agent CS Canister #3 – Model 1082 Riot Control Continuous Discharge Grenade CS / Defense Technology	Approx. 50
Chemical Agent CS Canister #98 – Model 1016 Pocket Tactical Grenade CS / CTS	Approx. 50
CTS #5210 – White Smoke Canister Grenade / CTS	Approx. 25
Ferret 40mm Powder Barricade Round CS – Model 2292 / Defense Technology	Approx. 100
Ferret 40mm Liquid Barricade Penetrator Round, OC – Model 2260 / Defense Technology	Approx. 66
Ferret 40mm Powder Barricade Penetrator Round, CS – Model 1292 / Defense Technology	Approx. 100 (Being phased out)
Direct Impact 40mm OC Crushable Foam Round – Model 6320 / Defense Technology	Approx. 200
Direct Impact 40mm CS Crushable Foam Round – Model 6322 / Defense Technology	Approx. 560
37mm Heavy Duty Barricade CS – Model 1152 / Defense Technology	Approx. 50 (Being phased out)

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)	
Equipment Name and Model / Manufacturer	Quantity
Chemical Agents	
37mm Spede-Heat Short-Range Round, CS –Model 2002 / Defense Technology	Approx. 10
First Defense 1.3% MK-46H Stream OC Aerosol (Handheld OC Canister) / Defense Technology	20 (Refillable)
OC Aerosol Grenade 1.3% Fogger 6 oz – Model 56854 / Defense Technology	Approx. 30 (Phased out – current inventory expired)
OC Aerosol Grenade 1.3% Fogger 1 oz – Model 56814 / Defense Technology	Approx. 20 (Phased out – current inventory expired)
Chemical Agent Delivery Devices	
Gas Ram – Chemical Agent Delivery Device / Custom build	1
Burn Safe – Chemical Agent Delivery Device (Containment Canister) / Burn Safe	7

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)	
Equipment Name and Model / Manufacturer	Quantity
Pepper Ball Launcher and Pepper Ball Munitions (*NOTE: There are an additional approximately 10,000 mixed use Pepper Ball Munitions readily available in the field spread amongst individual SWAT Officers working 24 hours a day across varying days and shifts.)	
Tippman FT-12 Pepper Ball Launcher / Tippman	75
PepperBall Live-X – Projectile Pepper Ball Munition / PepperBall	SWAT Armory Inventory – Approx. 2600
Safe Munitions OC2 – Projectile Pepper Ball Munition / Mission Less Lethal Technologies	SWAT Armory Inventory – Approx. 2500
Mission 1.1% OC – Projectile Pepper Ball Munition / Mission Less Lethal Technologies	SWAT Armory Inventory – Approx. 3500
PepperBall Glass Breaker – Projectile Pepper Ball Munition / PepperBall	Approx. 150
PepperBall Inert – Projectile Pepper Ball Munition / PepperBall	SWAT Armory Inventory – Approx. 400
Safe Munitions Inert – Projectile Pepper Ball Munition / Mission Less Lethal Technologies	SWAT Armory Inventory Approx. 1500
Duke Defense OC2 Hazard – Projectile Pepper Ball Munition / Duke Defense	SWAT Armory Inventory – Approx. 1500
Duke Defense Inert – Projectile Pepper Ball Munition / Duke Defense	SWAT Armory Inventory – Approx. 2000

Flashbangs, Chemical Agents, Chemical Agent Delivery Devices, and Pepper Ball Launchers (continued)

Equipment Name and Model / Manufacturer	Quantity
Sting Ball Munitions	
Stinger CS Rubber Ball Grenade – Model 1088 / Defense Technology	Approx. 50
Stinger 32-Caliber CS Rubber Balls with Safety Clip – Model 1090SC / Defense Technology	Approx. 50
Stinger 60-Caliber Rubber Balls with Safety Clip – Model 1087SC / Defense Technology	Approx. 100

Long Range Acoustic Device (LRAD)

Equipment Name and Model / Manufacturer	Quantity
LRAD – Model 100X / Genasys	1
LRAD – Model 500 X-RE / 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 GL1-40 (40mm Single Shot Launcher) / Penn Arms	SWAT -53 Patrol - 77
Model PGL 65-40 (40mm Multi-shot Launcher) / Penn Arms	SWAT – 8 Range - 2
Model 1426 (40 mm Single Shot Launcher) / Defense Technology	5

Extended Range Impact Weapons (ERIW), Projectile Launcher Platforms, ERIW Munitions, and Specialty Impact Munitions (SIM)	
Equipment Name and Model / Manufacturer	Quantity
40mm Launchers	
Def-Tec – Model 37mm Gas Gun (37mm Single Shot Launcher) / Defense Technology	8
LMT – Model 1440 (40mm 4-Shot Launcher) / LMT Defense	4
Beanbag Shotguns	
Remington 870 Police – 12 gauge Beanbag Shotgun / Remington	418
40mm Ammunition	
eXact iImpact 40mm Standard Range Sponge Round – Model 6325 / Defense Technology	Approx. 2300 rounds
Beanbag Ammunition	
12GA Super-Sock Bean Bag Ammunition – Model 2581 / CTS	Approx. 2800 rounds
Specialty Impact Munitions (SIM)	
UTM 5.56mm Man Marker Rounds (MMR) – Model 01-0972 (Blue) / Ultimate Training Munitions	Approx. 4500 rounds
Force on Force Simunition 9mm Marking Rounds / Simunition	Approx. 40,000 rounds
UTM M16/M4 Rifle Bolt Carrier Assembly (Blue Bolt) / Ultimate Training Munitions	65
Simunition Smith and Wesson 590X Barrel (9mm) / Simunition	10
Simunition Beretta 92 FS (M9) Barrel (9mm) / Simunition	10

Extended Range Impact Weapons (ERIW), Projectile Launcher Platforms, ERIW Munitions, and Specialty Impact Munitions (SIM)	
Equipment Name and Model / Manufacturer	Quantity
Specialty Impact Munitions (SIM) – (continued)	
Simunition Glock 17 Barrel and Slide Assembly (9mm) / Simunition	15

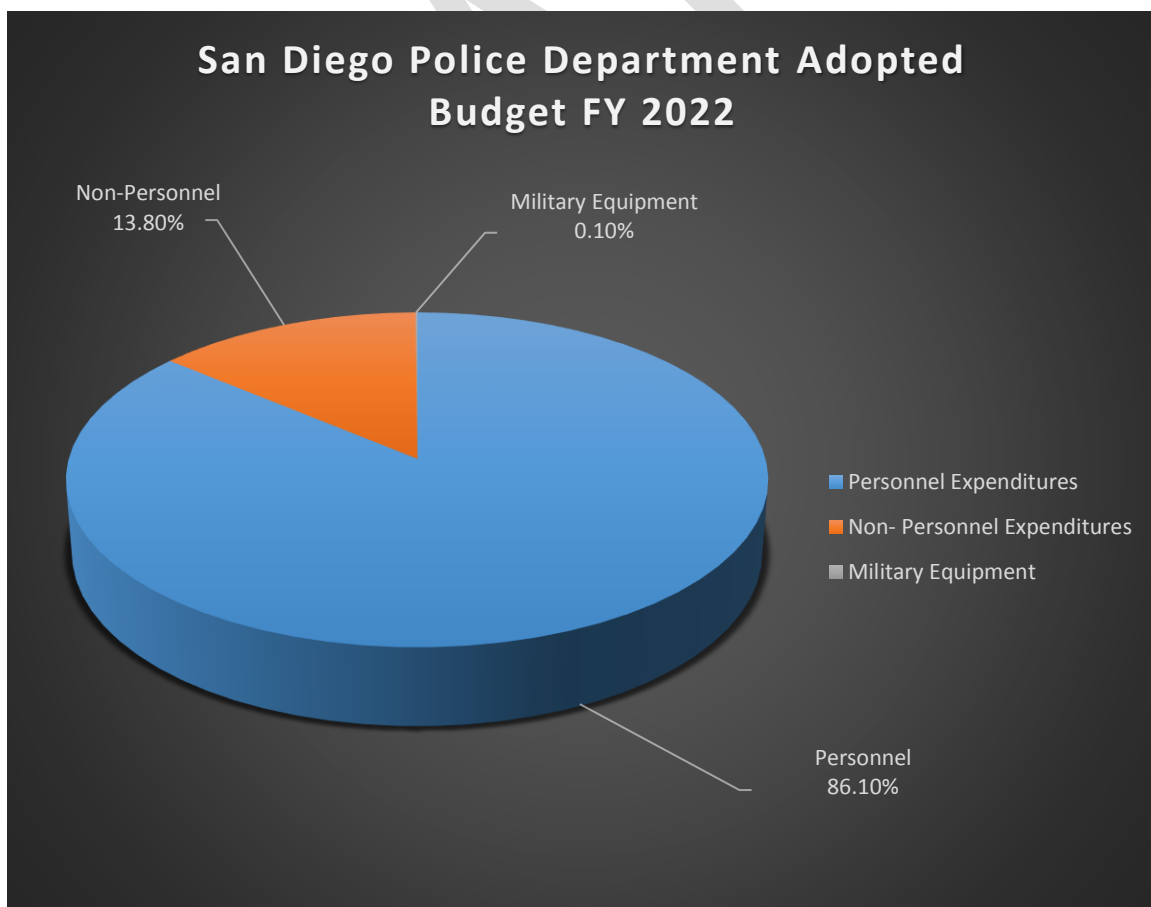
Night Vision Equipment and Infrared Sighting Systems	
Equipment Name and Model / Manufacturer	Quantity
Night Vision Optical Devices (NVD)	
Binocular Night Vision Device (BNVD) – Model AN/PVS-31 / L3Harris	19
Night Vision Device – Model AN/PVS-14 / L3Harris	21
Clip-On Night Vision Device M2124 – Model AN/PVS-24 / L3Harris	15
Infrared Sighting Systems	
Advanced Target Pointer Illuminator Aiming Laser (ATPIAL) – Model AN/PEQ-15/ L3Harris	122

Fiscal Impact

Fiscal Year (FY) 2022 (July 2021 – June 2022)

Currently the San Diego Police Department maintains a workforce comprised of over 1900 sworn personnel (Police Officers – all ranks) combined with over 600 full time and part time civilian support positions. The Department's adopted budget for FY 2022 was approximately \$593 million (General Fund) with the vast majority of the budget covering personnel expenses. The budget amount spent on military equipment represents only a small fraction of the Department's expenses. However, the funds spent on military equipment are an integral part of providing the essential resources and material needed to keep the community and officers safe. The significance and enhanced capability the current military equipment inventory provides is immense and cannot be understated from a public safety perspective.

The following outlines the fiscal impact of military equipment on the annual budget. As evidenced by the below chart and subsequent data tables, military equipment and related costs are nominal as compared to the overall Department budget. Cost breakdowns showcase the individual equipment prices per unit, combined with costs related to training, maintenance, upgrades, other ongoing costs, and source funding:



General Fund Department Expenditures

Category	FY 2022 Adopted Budget	Percentage of Annual Budget
Personnel Costs	\$ 510,629,912	86.1%
Non-Personnel Costs	\$ 81,756,875	13.8%
Military Equipment Costs (Subset of Non-Personnel Costs)	\$ 905,599	0.1%
TOTAL	\$ 593,292,386	100%

Military Equipment Expenditures by Category

Category	FY 2022 Adopted Budget (approximate)
Small Unmanned Aerial Systems (sUAS) Budget	\$ 15,500
Small Unmanned Tracked Robots Budget	\$ 21, 000
Command and Control Vehicles Maintenance Budget	TBD
Explosive Breaching Equipment Budget	\$ 2,928
SWAT Chemical Agents / Specialty Munitions Budget	\$ 13,191
SWAT AR-15 Weapons Maintenance Budget	\$ 11,000
SWAT .308 Sniper Rifles Maintenance Budget	\$ 18,037
Range Weapons Maintenance Budget	\$ 12,000
SWAT Ammo Budget (rifle and handgun ammo combined)	\$ 172,000
Range Ammo Budget (rifle and handgun ammo combined)	\$ 519,000
SWAT Diversionary Device Budget	\$ 21,175
Pepper ball Maintenance Budget	\$ 5,500
Pepper ball Munitions Budget	\$ 6,050

Military Equipment Expenditures by Category (continued)

Category	FY 2022 Adopted Budget (approximate)
SWAT Extended Range Impact Weapon (ERIW) / Projectile Launch Platforms Maintenance Budget	\$ 2,088
Range Bean Bag Shotgun Ammo Budget	\$ 46,400
SWAT Specialty Impact Munitions (SIM) Budget	\$ 15,730
SWAT Night Vision Equipment and Infrared Sighting Systems Budget	\$ 24,000
TOTAL	\$ 905,599

Projected Military Equipment Acquisitions FY 2023

CONSUMABLE MILITARY EQUIPMENT ACQUISITIONS

Projected consumable military equipment acquisitions for FY23 (July 2022- June 2023) should be in line with current replenishment schedules and quantities for consumables. A variety of commercial factors (i.e. supply and demand, inflation, supply chain issues etc.) may influence the fiscal impact of future military equipment acquisitions and ongoing military equipment purchases throughout the year. The replenishment schedules for military equipment consumables can vary and is dictated by inventory levels that fluctuate as a result of training, operational usage, or manufacturer recommended replacement guidelines. Categories of consumable military equipment are listed below:

- Ammunition – all calibers
- Explosive Breaching Equipment
- Chemical Agents
- Specialty Munitions (40mm, 37mm, and bean bag ammo)
- Diversionary Devices
- Pepper ball Munitions
- Specialty Impact Munitions (SIM's)

Funding for the majority consumable military equipment for FY23 should be secured via the General Fund. A more detailed summary of the projected fiscal impact for FY23 is listed in the table below.

NON-CONSUMABLE MILITARY EQUIPMENT

Projected non-consumable military acquisitions for FY23 (July 2022-June 2023) are anticipated to be limited at this time. Any unanticipated replacements of existing non-consumable military equipment for FY23 will be initiated on a case by case basis that is dependent on operational need, operational wear, or end of serviceable lifespan. Categories of non-consumable military equipment are listed below:

- Small Unmanned Aerial Systems (sUAS)
- Small Unmanned Tracked Robots
- Armored Personnel Carriers
- Command and Control Vehicles
- Breaching Shotguns
- .50 Caliber Rifles (SAR Rifles)
- Specialized Firearms and Assault Weapons (AR-15's, .308 Bolt-Action Sniper Rifles, and .308 Semi-Auto Sniper Rifles)
- Pepper ball Launchers
- LRAD's
- Extended Range Impact Weapons (ERIW) and Projectile Launch Platforms (40mm, 37mm, Beanbag Shotguns)
- Night Vision Equipment and Infrared Sighting Systems

Projected Acquisitions:

There are four **(4)** new projected acquisitions for non-consumable military equipment at this time. These projected acquisitions consist of .50 caliber rifle replacements for the SWAT Sniper Special Application Rifle (SAR) program and night vision equipment and infrared sighting systems for the SWAT Sniper Team.

The projected acquisitions are as follows:

- **Accuracy International AX ELR .50 BMG Rifle and related accessories** (Quantity sought: 2)
Manufacturer: Accuracy International
Total Projected Cost: Approximately \$40,000.00 (for two SAR rifles)
Funding Source: Grant funding

Two **(2)** Specialty Application Rifles chambered in .50 BMG along with related ammo and accessories are projected to be acquired in FY23 to maintain the operational effectiveness of the SAR program. Funding is anticipated to be secured through grant funding or a funding source outside of the General Fund.

- **Binocular Night Vision Device (BNVD) – Model AN/PVS-31** (Quantity sought: 16)
Manufacturer: L3Harris
Total Projected Cost: Approximately \$192,000.00 (for 16 devices)
Funding Source: Grant funding

16 BNVD Model AN/PVS-31's are projected to be acquired in FY23 to maintain and enhance the operational effectiveness and capability of the SWAT Sniper Team during high risk operations. The acquisition of additional BNVD's will enhance the Sniper Team's ability to deliver precision rifle fire at great distances during low light conditions. Funding is anticipated to be secured through grant funding or a funding source outside of the General Fund.

- **Advanced Target Pointer Illuminator Aiming Laser (ATPIAL) – Model AN/PEQ-15** (Quantity sought: 16)
Manufacturer: L3Harris
Total Projected Cost: Approximately \$20,000.00 (for 16 devices)
Funding Source: Grant funding

16 ATPIAL Model AN/PEQ-15's are projected to be acquired in FY23 to maintain and enhance the operational effectiveness and capability of the SWAT Sniper Team during high risk operations. The acquisition of additional ATPIAL Model AN/PEQ-15's will enhance the Sniper Team's ability to deliver precision rifle fire at great distances during low light conditions. Funding is anticipated to be secured through grant funding or a funding source outside of the General Fund.

- **Clip-On Night Vision Device M2124 – Model AN/PVS-24** (Quantity sought: 2)
Manufacturer: L3Harris
Total Projected Cost: Approximately \$16,000.00 (for 2 devices)
Funding Source: Grant funding

Two (2) Clip-On Night Vision Devices (Model AN/PVS-24) are projected to be acquired in FY23 to maintain and enhance the operational effectiveness and capability of the SWAT Sniper Team during high risk operations. The acquisition of additional Clip-On Night Vision Devices will enhance the Sniper Team's ability to deliver precision rifle fire at great distances during low light conditions. Funding is anticipated to be secured through grant funding or a funding source outside of the General Fund.

The remainder of non-consumable military acquisitions will consist of ongoing maintenance costs for existing equipment. Funding for the majority of non-consumable military equipment should be secured via the General Fund. A more detailed summary of the projected fiscal impact for FY23 is listed in the table below.

Fiscal Impact by Equipment Type – Fiscal Year 2022 (July 2021 – June 2022) and Estimated Projected Cost Fiscal Year 2023

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	\$4,700.93 / General Fund	\$1,500.00	\$50,000.00 (total UAS projected budget)
DJI Phantom Pro V 2.0 / DJI	\$7,513.89 / Asset Forfeiture Fund	\$1,500.00	\$50,000.00 (total UAS projected budget)
DJI Matrice 210 / DJI	\$30,352.54 / Asset Forfeiture Fund	\$4,500.00	\$50,000.00 (total UAS projected budget)
DJI Mavic Air / DJI	\$6,709.19 / Asset Forfeiture Fund	\$800.00	\$50,000.00 (total UAS projected budget)
DJI Mavic 2 Enterprise Dual / DJI	\$5,845.37 / Asset Forfeiture Fund	\$800.00	\$50,000.00 (total UAS projected budget)
Shield A.I. Nova / Shield A.I.	\$0.00 / Donated by manufacturer at no cost	Supported by manufacturer at no cost	Supported by manufacturer at no cost
Parrot Anafi Thermal / Parrott	\$23,398.91 / SHSGP Grant	\$3,200.00	\$50,000.00 (total UAS projected budget)
Acecore Zoe / Acecore Technologies	\$87,277.52 / SHSGP Grant	\$3,200.00	\$50,000.00 (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)
Mini-CALIBER / ICOR Technology	\$48,500.00 / JAG Grant 2018	\$10,000.00	\$11,000.00
First Look / Teledyne FLIR	\$11,000.00 per unit / SWAT Assoc. Funds 2014	\$11,000.00	\$12,100.00

Armored Personnel Carriers			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Bearcat G2 (2 Door) / Lenco	\$421,575.32 / UASI Grant 2010	Maintenance costs TBD	Maintenance costs TBD
Bearcat G3 (4 Door CBRNE Capability) / Lenco	\$437,298.51 / UASI Grant 2016	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) / Mattman Global Specialty Vehicles	\$223,265.00 / UASI Grant 2007	Maintenance costs TBD	Maintenance costs TBD
Mobile 1 – Command Post Vehicle / Matthews Specialty Vehicles	\$399,920.00 / UASI, LETTP, and BZPP Grants 2005	Maintenance costs TBD	Maintenance costs TBD
Mobile 2 – Command Post Vehicle / Unknown Manufacturer	\$501,252.30 / UASI Grant 2003	Maintenance costs TBD	Maintenance costs TBD
Mobile 3 – Mobile Decontamination Prisoner Processing Vehicle / Matthews Specialty Vehicles	\$431,290.29 / LETPP Grant 2007	Maintenance costs TBD	Maintenance costs TBD
Mobile 4 – Command Post Vehicle / Nomad	\$413,178.04 / UASI Grant 2010	Maintenance costs TBD	Maintenance costs TBD
Emergency Negotiations Team (ENT) Command Vehicle / Unknown Manufacturer	Unknown / UASI Grant 2007	Maintenance costs TBD	Maintenance costs TBD

Explosive Breaching Equipment			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Explosive Breaching Kit / Southwest Explosives	\$2,661.43 / General Fund	\$2,928.00	\$3,220.00

Breaching Shotguns and Breaching Ammunition			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Remington 870 Police Magnum Breaching Shotgun / Remington	\$377.42 per unit / General Fund	\$11,000.00 (total SWAT weapons maintenance budget)	\$12,100.00 (total SWAT weapons maintenance budget)
Serbu Super Shorty Breaching Shotgun / Serbu Firearms	Unknown / Unknown	\$11,000.00 (total SWAT weapons maintenance budget)	\$12,100.00 (total SWAT weapons maintenance budget)
CTS Model 2570 Breaching Shotgun Rounds / CTS	Unknown / Unknown	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)
TKO 12 Gauge Breaching Shotgun Rounds / Defense Technology	Unknown / Unknown	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)
TESAR-1 Breaching Shotgun Rounds - Model FE182 / Royal Arms International	\$26.75 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)
TESAR-2 Breaching Shotgun Rounds - Model FE183 / Royal Arms International	\$29.25 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)
TESAR-4 Breaching Shotgun Rounds - Model FE185 / Royal Arms International	\$29.25 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)
TESAR-5 Breaching Shotgun Rounds - Model FE189 / Royal Arms International	\$29.25 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)

.50 Caliber Rifles			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Bushmaster BA 50/ Bushmaster	\$0.00 / Seized Assets	None	None
Barrett Model 99/ Barrett Firearms	\$0.00 / Seized Assets	None	None
Armalite AR-50 / Armalite	\$0.00 / Seized Assets	None	None

.50 Caliber Ammunition			
Equipment Name and Model / Manufacturer	Initial Cost / Source Funding	Ongoing Annual Cost FY22 (approximate)	Projected Annual Cost FY23 (approximate)
Frangible Ammunition - .50 BMG 600 grain Engel Ballistic Research/ Engel Ballistic Research	Approved for operational use only, none in current inventory	None	\$172,000.00 (total SWAT ammo budget)
Match Ammunition - .50 BMG .510" 750 grain Hornady A-Max / Hornady Ammunition	Unknown / Unknown	None	\$172,000.00 (total SWAT ammo budget)
Armor Piercing Ammunition .50 BMG (Non-Tungsten Core) / Unknown manufacturer	Unknown / Unknown	None	\$172,000.00 (total SWAT ammo budget)
Military Grade Ball .50 BMG (full metal jacket) / Unknown manufacturer	Unknown / Unknown	None	None
Military Grade Tracer .50 BMG / Unknown manufacturer	Unknown / Unknown	None	None

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 LE 6920 Series / Colt Manufacturing LLC	\$742.00 per unit / State COPS Fund 2016	\$12,000.00 (Range weapons maintenance expenditure budget)	\$13,200.00 (Range weapons maintenance expenditure budget)
AR-15 Colt Carbine LE 6933 Series / Colt Manufacturing LLC	\$1,755.13 per unit / State COPS Fund 2019	\$12,000.00 (Range weapons maintenance expenditure budget)	\$13,200.00 (Range weapons maintenance expenditure budget)
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)
AR-15 DPMS 5.56 / DPMS	\$0.00 / Seized Assets	None	None
AR-15 Olympic Arms 5.56 / Olympic Arms	\$0.00 / Seized Assets	None	None
.308 Semi-auto Rifle - JP Enterprises LRP-07 / JP Enterprises	\$3,438.05 per unit / SWAT Assoc. Funds 2017	\$18,037.00 (all .308 weapons platforms combined)	\$19,840.00 (all .308 weapons platforms combined)
.308 Semi-auto Rifle - M&P 10 / Smith & Wesson	\$0.00 / Seized Assets	None	None
.308 Bolt Action Rifle – Accuracy International AX .308 / Accuracy International	\$6000.00 per unit / General Fund	\$18,037.00 (all .308 weapons platforms combined)	\$19,840.00 (all .308 weapons platforms combined)
HK MP5 Submachine Gun / Heckler & Koch	Unknown / Unknown	None	None
Miscellaneous Assault Weapons – Crime Lab Inventory	None / Seized Assets	None	TBD

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)
Ammunition less than .50 cal			
Federal XM 193 American Eagle Rifle Ammunition 5.56mm X 45mm 55 grain full metal jacket / Federal	\$156.67 per 500 round case / General Fund	\$172,000.00 (total SWAT ammo budget)	\$189,000.00 (total SWAT ammo budget) \$519,000.00 (total Range ammo budget)
Speer LE Gold Dot .223 Remington 62 grain Rifle Ammunition/ Speer	\$249.55 per 500 round case / General Fund	\$172,000.00 (total SWAT ammo budget) / \$472,000.00 (total Range ammo budget)	\$189,000.00 (total SWAT ammo budget) / \$519,000.00 (total Range ammo budget)
Black Hills Ammunition 5.56mm 62 grain (RRLP) Shoothouse Training Ammunition / Black Hills Ammunition	\$2,326.68 per 1740 round case / Special Fund	\$172,000.00 (total SWAT ammo budget)	\$189,000.00 (total SWAT ammo budget)
Federal Premium Tactical TRU .308 Winchester Ammunition / Federal	\$382.90 per 110 round case / General Fund	\$172,000.00 (total SWAT ammo budget)	\$189,000.00 (total SWAT ammo budget)
Federal Premium Tactical Bonded Tip .308 Winchester Ammunition/ Federal	\$292.74 per 200 round case / SWAT Association Fund 2021	\$172,000.00 (total SWAT ammo budget)	\$189,000.00 (total SWAT ammo budget)
Swiss P Armor Piercing .308 Winchester 196 grain Ammunition / Swiss P	\$875.00 per 200 round case / SWAT Association Fund 2021	\$172,000.00 (total SWAT ammo budget)	\$189,000.00 (total SWAT ammo budget)

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)
Diversionsary Devices aka Flashbangs			
Rheinmetall 1 Bang Vanguard BTV-EL (Flashbang) / Rheinmetall	\$76.92 per unit / General Fund	\$21,175.00 (total SWAT diversionsary device budget)	\$23,300.00 (total SWAT diversionsary device budget)
Rheinmetall 6 Bang Vanguard BTV-EL (Multi-bang Flashbang) / Rheinmetall	\$118.30 per unit / General Fund	\$21,175.00 (total SWAT diversionsary device budget)	\$23,300.00 (total SWAT diversionsary device budget)
Rheinmetall 9 Bang Vanguard BTV-EL (Multi-bang Flashbang) / Rheinmetall	\$114.81 per unit / General Fund	\$21,175.00 (total SWAT diversionsary device budget)	\$23,300.00 (total SWAT diversionsary device 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)
Diversionsary 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 diversionsary device budget)	\$23,300.00 (total SWAT diversionsary 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			
CTS #6343- OC-CS Vapor Grenade / CTS	\$40.00 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
CTS #5230B – CS Baffled Canister Grenade, Pyro, Low Flame Potential / CTS	\$37.00 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
Chemical Agent CS Canister #2 – Model 1072 SPEDE-HEAT Continuous Discharge Chemical Grenade CS / Defense Technology	Unknown / Unknown	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
Chemical Agent CS Canister #3 – Model 1082 Riot Control Continuous Discharge Grenade CS / Defense Technology	\$23.50 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
Chemical Agent CS Canister #98 – Model 1016 Pocket Tactical Grenade CS / CTS	\$22.50 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
CTS #5210 – White Smoke Canister Grenade / CTS	\$38.20 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
Ferret 40mm Powder Barricade Round CS – Model 2292 / Defense Technology	\$18.88 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
Ferret 40mm Liquid Barricade Penetrator Round, OC – Model 2260 / Defense Technology	\$21.09 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent 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)
Chemical Agents (continued)			
Ferret 40mm Powder Barricade Penetrator Round, CS – Model 1292 / Defense Technology	Unknown / Unknown	None (being phased out)	None (being phased out)
Direct Impact 40mm OC Crushable Foam Round – Model 6320 / Defense Technology	\$21.79 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
Direct Impact 40mm CS Crushable Foam Round – Model 6322 / Defense Technology	\$17.99 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
37mm Heavy Duty Barricade CS – Model 1152 / Defense Technology	Unknown / Unknown	None (being phased out)	None (being phased out)
37mm Spede-Heat Short Range, Round, CS – Model 2002 / Defense Technology	\$19.49 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$13,191.00 (total SWAT Chemical Agent budget)
First Defense 1.3% MK-46H Stream OC Aerosol (Handheld OC Canister) / Defense Technology	\$450.00 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
OC Aerosol Grenade 1.3% Fogger 6 oz – Model 56854 / Defense Technology	\$21.15 per unit / General Fund	None (being phased out)	None (being phased out)
OC Aerosol Grenade 1.3% Fogger 1 oz – Model 56814 / Defense Technology	\$28.26 per unit / General Fund	None (being phased out)	None (being phased out)
Chemical Agent Delivery Devices			
Gas Ram – Chemical Agent Delivery Device / Custom Metal Concepts	\$1,875.00 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent budget)
Burn Safe – Chemical Agent Delivery Device (Containment Canister) / Burn Safe	\$1,275.00 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent budget)	\$14,500.00 (total SWAT Chemical Agent 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 FT-12 Pepper Ball Launcher / Tippman	\$140.00 per unit / General Fund 2015	\$5,500.00 maintenance and replacement	\$6,050.00 maintenance and replacement
PepperBall Live-X – Projectile Pepper Ball Munition / PepperBall	\$637.50 per 375 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 for all Pepper Ball munitions related costs
Safe Munitions OC2 – Projectile Pepper Ball Munition / Mission Less Lethal Technologies	\$831.25 per 500 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 for all Pepper Ball munitions related costs
Mission 1.1% OC – Projectile Pepper Ball Munition / Mission Less Lethal Technologies	\$712.50 per 500 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 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
PepperBall Inert – Projectile Pepper Ball Munition / PepperBall	\$300.00 per 375 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 for all Pepper Ball munitions related costs
Safe Munitions Inert – Projectile Pepper Ball Munition / Mission Less Lethal Technologies	\$810.00 per 1500 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 for all Pepper Ball munitions related costs
Duke Defense OC2 Hazard – Projectile Pepper Ball Munition / Duke Defense	\$909.88 per 500 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 for all Pepper Ball munitions related costs
Duke Defense Inert – Projectile Pepper Ball Munition / Duke Defense	\$258.50 per 500 count case / General Fund	\$6,050.00 for all Pepper Ball munitions related costs	\$6,650.00 for all Pepper Ball munitions related costs
Sting Ball Munitions			
Stinger CS Rubber Ball Grenade – Model 1088 / Defense Technology	\$44.49 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)
Stinger 32-Caliber CS Rubber Balls with Safety Clip – Model 1090SC / Defense Technology	\$44.49 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions 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)
Sting Ball Munitions (continued)			
Stinger 60-Caliber Rubber Balls with Safety Clip – Model 1087SC / Defense Technology	\$40.19 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)

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	\$59,211.55 / SHSGP Grant 2008	None	None
LRAD – Model 500 X-RE / Genasys	\$27,635.72 / SHSGP Grant 2008	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			
Model GL1-40 (40mm Single Shot Launcher) / Penn Arms	\$1,033.00 per unit / General Fund	\$2,088.00 (total SWAT 40mm launcher maintenance budget)	\$2,300.00 (total SWAT 40mm launcher maintenance budget)
Model PGL 65-40 (40mm Multi-shot Launcher) / Penn Arms	\$3,336.00 per unit / General Fund	\$2,088.00 (total SWAT 40mm launcher maintenance budget)	\$2,300.00 (total SWAT 40mm launcher maintenance budget)
Def Tech – Model 1426 (40 mm Single Shot Launcher) / Defense Technology	Unknown / Unknown	\$2,088.00 (total SWAT 40mm launcher maintenance budget)	\$2,300.00 (total SWAT 40mm launcher maintenance budget)
Def-Tec – Model 37mm Gas Gun (37mm Single Shot Launcher) / Defense Technology	Unknown / Unknown	\$2,088.00 (total SWAT 40mm launcher maintenance budget)	\$2,300.00 (total SWAT 40mm launcher maintenance budget)
LMT – Model 1440 (40mm 4-Shot Launcher) / LMT Defense	\$2,185.00 per unit / General Fund	\$2,088.00 (total SWAT 40mm launcher maintenance budget)	\$2,300.00 (total SWAT 40mm launcher maintenance budget)

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	\$377.42 per unit / State COPS Fund	\$12,000.00 (Range maintenance expenditure budget)	\$13,200.00
40mm Ammunition			
eXact iMpack 40mm Standard Range Sponge Round – Model 6325 / Defense Technology	\$17.79 per unit / General Fund	\$13,191.00 (total SWAT Chemical Agent / Specialty Munitions budget)	\$14,500.00 (total SWAT Chemical Agent / Specialty Munitions budget)
Beanbag Ammunition			
12GA Super-Sock Bean Bag Ammunition – Model 2581 / CTS	\$4.96 per 5 round box / General Fund	\$46,400.00 (total Range bean bag ammo budget)	\$51,000.00 (total Range bean bag ammo budget)
Specialty Impact Munitions (SIM)			
UTM 5.56mm Man Marker Rounds (MMR) – Model 01-0972 (Blue) / Ultimate Training Munitions	\$699.00 per 900 round case / General Fund	\$15,730.00 (total SWAT SIM budget)	\$17,300.00 (total SWAT SIM budget)
Force on Force Simunition 9mm Marking Rounds / Simunition	\$234.50 per 500 round case / General Fund	None	TBD
UTM M16/M4 Rifle Bolt Carrier Assembly (Blue Bolt) / Ultimate Training Munitions	\$325.00 per unit	\$15,730.00 (total SWAT SIM budget)	\$17,300.00 (total SWAT SIM budget)
Simunition Smith and Wesson 590X Barrel (9mm) / Simunition	Unknown / Unknown	None	TBD
Simunition Beretta 92 FS (M9) Barrel (9mm) / Simunition	Unknown / Unknown	None	TBD
Simunition Glock 17 Barrel and Slide Assembly (9mm) / Simunition	Unknown / Unknown	None	TBD

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)			
Binocular Night Vision Device (BNVD) – Model AN/PVS-31 / L3Harris	\$13,500.00 per unit / UASI Grant 2020, SWAT Assoc. Funds, General Fund	\$22,000.00 (total SWAT NVD maintenance budget)	\$24,000.00 (total SWAT NVD maintenance budget)
Night Vision Device – Model AN/PVS-14 / L3Harris	\$3,550.00 per unit /UASI Grant 2020, General Fund	\$22,000.00 (total SWAT NVD maintenance budget)	\$24,000.00 (total SWAT NVD maintenance budget)
Clip-On Night Vision Device M2124 – Model AN/PVS-24 / L3Harris	\$8,434.40 per unit / SWAT Assoc. Funds 2019	\$22,000.00 (total SWAT NVD maintenance budget)	\$24,000.00 (total SWAT NVD maintenance budget)
Infrared Sighting Systems			
Advanced Target Pointer Illuminator Aiming Laser (ATPIAL) – Model AN/PEQ-15/ L3Harris	\$1,168.27 per unit / SWAT Assoc. Funds 2016 and State COPS Fund 2019	\$22,000.00 (total SWAT NVD maintenance budget)	\$24,000.00 (total SWAT NVD maintenance budget)

Associated Training Costs for 2021 (Calendar Year)

The use of certain items of military equipment and related special tactics are perishable skills that require ongoing training to maintain proficiency. While the Department conducts constant training within its Training Division and within certain specialized units (i.e. SWAT, CIMU, etc.), there is significant tactical insight and an enhanced skillset to be gained in participating in external training courses. These courses provide officers a curriculum and course exercises designed to impart knowledge, skills, and enhanced capability. The courses attended by officers can vary year to year depending on operational need. Funding sources for training are secured via the General Fund or grants unless otherwise indicated.

The following are external training classes and associated costs attended by Department members in 2021 related to military equipment covered in the annual equipment report:

Rifle Marksmanship and Sniper Course

Course Presenter: San Bernardino County Sheriff's Department

Course content: A 40 hour course designed to train law enforcement personnel who are assigned as Police Snipers. Students learn marksmanship basics and fundamentals, long rifle weapon system capabilities and limitations. Gear selection and equipment needs, mission types, as well as exercises to demonstrate skills are also addressed.

Cost: \$350.00

Manual, Mechanical, Ballistic, Thermal, and Hydraulic Breacher Course

Course Presenter: Forced Entry Tactical Training (FETT - USA)

Course content: Specialized breaching involving manual, mechanical, ballistic, thermal, and hydraulic breaching techniques

Cost: \$1,500.00 (grant funded)

Unmanned Aircraft Systems Basic Pilots Course

Course Presenter: Los Angeles County Training Center

Course content: The curriculum is focused on piloting skills coupled with training in UAS safety and general UAS program operations.

Cost: \$999.00

Unmanned Aircraft Systems Operators Course

Course Presenter: Los Angeles County Training Center

Course content: The Unmanned Aircraft Systems (UAS) Program Operators Course is 48 hours of instruction designed to provide organizations with the knowledge and skills necessary to create and/or maintain an aviation program based on unmanned aerial vehicle (UAV) platforms

Cost: \$1,550.00

Close Quarter Clearance Course (CQC) Sustainment Training

Course Presenter: Tomahawk Strategic Solutions

Course content: A five (5) day Close Quarter Clearance Course (CQC) that is an addendum to prior Tomahawk Strategic Solutions CQC courses attended by SWAT Officers. This course builds on previous classes by adding new tactics and techniques as well as providing sustainment training.

Cost: \$40,000.00 (cost for 18 SWAT Officers – UASI Grant Funded).

Conclusion

This Annual Military Equipment Report reaffirms the San Diego Police Department's commitment to providing transparency and information to our communities and elected officials in addition to ensuring compliance with the law. The equipment, resources, and training outlined in this report allow San Diego Police Officers to better protect our communities, enhance the safety of the public and officers, and bring critical incidents to a safe resolution. It is not a matter of if a critical incident will happen within our city, but a matter of when. The content listed within this report gives our officers the training, confidence, and capability to meet that moment head on when called upon to do so.

Public safety is and always has remained a shared responsibility. The strength of our Department lies not solely within the actions of the individual officer but within the resilience and willingness of our communities to work in partnership with our officers to address crime in their neighborhoods. This shared partnership and continued support has helped our officers maintain the City of San Diego as one of the safest large cities in the United States.

Since our founding in May of 1889, San Diego Police Officers have stood watch and protected this city for 132 years. Throughout that long history and today, San Diego Police Officers have answered the call to protect our communities, address violent crime, and serve. Ours is a Department encompassing a long lineage of officers that have embraced the tenets of service, courage, community, and a commitment to something larger than oneself. That lineage continues today as the current and new generation of San Diego Police Officers is comprised of one of the most diverse, capable, and best trained officers in the country. Among that lineage we can never forget those who gave the ultimate sacrifice while protecting others. All across our ranks, regardless whether officers are at the beginning, midpoint, or twilight of their career, we stand at the ready to answer the call. Our Department is fully committed to the protection and service of our communities and this city. To that end, we will continue to fulfill the motto embossed upon the city seal "Semper Vigilans," Latin for "Always Vigilant."

