

Alameda County Sheriff's Office
Military Equipment Inventory (AB 481)
ACSO General Order 2.21.02
(DRAFT)
January 5, 2023

THIS DOCUMENT IS A PROPOSED UPDATE TO THE EXISTING INVENTORY LIST CURRENTLY ATTACHED TO G.O. 2.21.02 AND HAS NOT YET BEEN PRESENTED TO THE ALAMEDA COUNTY BOARD OF SUPERVISORS.

Items **highlighted in red** and struck-through are items no longer in use and are being removed from the current inventory list

Items **highlighted in yellow** are new items being requested for use by the ACSO or updated quantities

1. Small Unmanned Aircraft System (sUAS) – Category 1

Consists of the small, unmanned aircraft weighing under 55 pounds, the command system, a secure control link, and other related safety support equipment. All sUAS devices have video recording capabilities.

a. Description/Capabilities, Quantity, and Cost

- i. BRINC LEMUR S: Used for indoor flights with 31 minutes of flight time and a 10-hour perch time. Has the capability to break glass, including automotive glass, which is useful to ventilate buildings during a structure fire or make entry during an active shooter event. Can upright itself when upside down. Has a 1080p, 60fps wide-angle fixed zoom lens with a built-in night-vision system and IR illuminators. Equipped with a spotlight, speaker, onboard microphone for two-way communications and a live video feed to command stations.
Quantity: 6
Cost: \$12,000
- ii. DJI FPV COMBO: First-person view UAS with 4K camera, S Flight Mode, super-wide 150-degree field of view, HD low latency transmission and emergency brake. This UAS can record 4K/60FPS video at up to 120Mbps.
Quantity: 1
Cost: \$1,299
- ~~iii. **DJI INSPIRE 1** UAS with a single color camera, weighs approximately 7.5 pounds and has 4K HD video recording capabilities, unobstructed 360-degree shooting, and an approximate flight time of 30 minutes.
Quantity: 3
Cost: \$1,200 **Discontinued/out of inventory**~~
- iv. DJI MATRICE 210 V2: Large UAS with dual cameras, including a professional-grade infrared camera and 30x optical zoom. This UAS has a reliable and stable flight view and supports automatic dual frequency band switching and extends the flight range to up to 8km. It also has AES-256 Encryption, keeping data transmission secure and safe.
Quantity: 1
Cost: \$16,000 (Discontinued)
- v. DJI MATRICE 210 V2 RTK: Same description/capabilities as the DJI Matrice 210 V2 but with built-in high performance RTK modules and D-RTK 2 mobile station compatibility.
Quantity: 1
Cost: \$16,000 (Discontinued)
- vi. DJI MATRICE 300 RTK: Commercial UAS, offering up to 55 minutes of flight time,

- advanced AI capabilities, and 6 directional sensing and positioning. This UAS enables transmission up to 15km away and supports triple-channel 1080p video and offers real time auto-switching between 2.4Ghz and 5.8Ghz for a more reliable flight near high-interference environments. AES-256 encryption provides secure data transmission.
Quantity: 2
Cost: \$13,700
- vii. DJI MATRICE 30T: Commercial UAS, offering up to 55 minutes of flight time, advanced AI capabilities, and 6 directional sensing and positioning. This UAS enables transmission up to 15km away and supports triple-channel 1080p video and offers real time auto-switching between 2.4Ghz and 5.8Ghz for a more reliable flight near high-interference environments. AES-256 encryption provides secure data transmission. Dual zoom camera with thermal and color. IP 55 waterproof rating.
Quantity: 6 The ACSO already possesses 4 of these and is requesting 2 additional
Cost: \$15,000
- viii. DJI MAVIC 2 ENTERPRISE ADVANCED: Contains high-resolution thermal (640x512 thermal resolution and 16x zoom) and visual (48MP and 32x zoom) cameras and is capable of centimeter-level positioning accuracy with the RTK module. Dual-vision allows the operator to tap to switch between visual, thermal, or split-view feeds.
Quantity: 25
Cost: \$6,900
- ix. DJI MAVIC 2 ENTERPRISE DUAL: Contains a color and infrared camera, as well as an audible speaker and an M2E Spotlight. Weighs approximately 899 grams with a flight time of approximately 30 minutes.
Quantity: 13
Cost: \$5,500
- x. DJI MAVIC 2 ENTERPRISE ZOOM: Up to 4x zoom and 2x optical zoom and a 48mm telephoto lens. 25-30 minutes of flight time.
Quantity: 17
Cost: \$3,500
- xi. **DJI MAVIC 3 ENTERPRISE:** The updated version of the DJI Mavic 2 Enterprise Line. This sUAS uses a 48MP camera, up to 4K/60fps videos and 4K/30fps HDR videos. It has a flight time of 45 minutes with an internally closed battery and forward/backward/downward tri-directional dual-vision obstacle sensing system. The Mavic 3 Enterprise has a 56x hybrid zoom, a 28x digital thermal zoom and a 4/3 CMOS sensor on the mapping version for high resolution photo mapping. The Advanced Pilot Assistance Systems detects objects in the aircraft's flight path in real-time.
Quantity: 12
Cost: \$7,500
- xii. DJI MAVIC MINI 1: Miniature UAS that weighs approximately 249 grams and is capable of audio/video recording with an approximate flight time of 30 minutes. This UAS supports 12MP aerial photos and 2.7K HD videos.
Quantity: 11
Cost: \$400
- xiii. DJI MAVIC MINI 2: Miniature UAS that weighs approximately 249 grams and is capable of audio/video recording with an approximate flight time of 30 minutes. Uses a 12MP camera along with 4K video. This UAS can resist 29-38kph winds and take off at a max altitude of 4,000 meters.
Quantity: 30
Cost: \$449
- xiv. DJI MAVIC MINI 3 PRO (DJI RC): The updated version from the DJI Mavic Mini 2. This sUAS uses a 48MP camera, up to 4K/60fps videos and 4K/30fps HDR videos. It has a flight time of 34 minutes (47 minutes with the Intelligent Flight Battery Plus) and

forward/backward/downward tri-directional dual-vision obstacle sensing system. The Advanced Pilot Assistance Systems detects objects in the aircraft's flight path in real-time. This allows the DJI Mini 3 Pro to avoid obstacles, even in complicated environments.

Quantity: 25

Cost: \$909

- xv. DJI MAVIC PRO PLATINUM: 4K video and a 12MP camera. 30 minutes of flight time and a reduced noise level as compared to its predecessor (Mavic Pro). This UAS has a 4.3-mile range.

Quantity: 1

Cost: \$9,000

- ~~xvi. DJI PHANTOM 3: 2.7K HD video at 30fps with Intelligent Flight Modes and a range of 3.1 miles.~~

~~Quantity: 4~~

~~Cost: \$799 (Discontinued) Out of inventory~~

- ~~xvii. DJI PHANTOM 4: 4k video and a 12 MP camera with forward and downward visioning systems, 28 minutes of flight time. Weighs 1380 grams.~~

~~Quantity: 3~~

~~Cost: \$6,600 (Discontinued) Out of inventory~~

- xviii. DJI PHANTOM 4 ADVANCED: 4K/60 fps video at a bit rate of 100 Mbps and still photos up to 20MP. 30-minute flight time with a flight speed up to 44mph and a 4.35-mile range.

Quantity: 10

Cost: \$2,700 (Discontinued)

- xix. DJI PHANTOM 4 PRO: 4K/60 fps video and a 20MP camera. The Flight Autonomy system adds dual rear-vision sensors plus infrared sensing for a total of five directions of obstacle sensing and four directions of obstacle avoidance. Up to 30 minutes of flight time.

Quantity: 3

Cost: \$3,699

- xx. DJI PHANTOM 4 PROV2: Same description/capabilities as the DJI Phantom 4 PRO but with an upgraded propulsion system with FOC sinusoidal driver ESCs and 9455S quick-release propellers that reduce noise, making it up to 60% quieter and more aerodynamic. It also has OcuSync radio/video transmission technology, which allows the UAS to connect to DJI Goggles wirelessly.

Quantity: 5

Cost: \$6,600

- xxi. DJI SPARK: A mini UAS weighing 300 grams and a flight time of 16 minutes. HD 1080p video and a 12 MP camera.

Quantity: 1

Cost: \$400

b. Purpose and Authorized Use

To be deployed when its view would assist Agency members with the following situations, including, but not limited to:

- i. Post-incident crime scene preservation and documentation
- ii. Explosive Ordnance Disposal (EOD) missions
- iii. Response to hazardous materials spills
- iv. Search and Rescue (SAR) missions as defined in California Government Code Section 26614.
- v. Public safety and life preservation missions to include barricaded suspects, hostage situations, active shooters, apprehension of armed and dangerous and/or violent fleeing suspects, and high-risk search warrants

- vi. Disaster response and recovery to include natural or human caused disasters including a full overview of a disaster area for post incident analysis and documentation
- vii. Training missions
- viii. In response to specific requests from local, state, or federal fire authorities for fire response and prevention
- ix. When there is probable cause to believe that (1) the sUAS will record images of a place, thing, condition, or event; and (2) that those images would be relevant in proving that a certain felony had occurred or is occurring, or that a particular person committed or is committing a certain felony and use of the sUAS does not infringe upon the reasonable expectation of privacy
- x. Pursuant to a search warrant
- xi. Any official law enforcement mission or event approved by the Sheriff, or the Sheriff's Designee

All flights are documented on a mission dispatch form designed for that purpose and all flight time shall be accounted for on the form. The reason for the flight and type of mission as specified above and name of the supervisor approving the operation will also be documented. Prior to each sUAS flight, a Notice to Airmen (NOTAM) will be filed with the FAA. sUAS Commanders, operators, and observers will consider the protection of individual civil rights and the reasonable expectation of privacy as a key component of any decision made to deploy the sUAS. An sUAS operation requires a Certificate of Authorization (COA) from the FAA.

c. Expected Life Span

All sUAS have an expected life span of 3-5 years

d. Fiscal Impact

Annual maintenance and battery replacement cost is approximately \$400 per in-service sUAS.

e. Training

All Agency sUAS operators are certified in the operation of sUAS by successful completion of an approved training course. The pilot must meet standards required by the Federal Aviation Administration (FAA) and obtain an FAA Part 107 (Remote Pilot) license.

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 5.07 – Special Operations Group
- ii. G.O. 6.15 – Small Unmanned Aircraft System (sUAS)
- iii. FAA Regulation 14 CFR Part 107 – sUAS Operations
- iv. ACSO sUAS Operations Manual

2. Robots – Category 1

Unmanned machines operating on the ground and utilized to enhance the safety of the community and Agency members.

a. Description/Capabilities, Quantity, and Cost

- i. REMOTEC ANDROS BOMB DISPOSAL ROBOT: The REMOTEC Andros F6 robot has dual mobility capability with quick release pneumatic wheels for rapid width reduction and articulating track to traverse rough terrain. The manipulator arm has 7 degrees of freedom to ensure optimum dexterity. The grip rotation is continuous 360 degrees, the torso rotation +/- 90 degrees. It has onboard cameras with one full 360 PTZ.
Quantity: 2
Cost: \$260,486.69
- ii. TALON EOD ROBOT STANDARD SYSTEM: The Talon robot system features modular design which measures 34 inches long, 22.5 inches wide and 10.98 inches high when arm-stowed while the ground clearance is 2.7 inches. It can carry a payload of 100 pounds and has a drag capacity of up to 170 pounds with gripper, a tow capacity of 749 pounds and a maximum arm lift capacity of 20 pounds. TALON features a disruptor-

ready manipulator arm, 360° rotating wrist, gripper, microphone and a loudspeaker.

Quantity: 1

Cost: \$275,642.10

- iii. TALON CBRNE RESPONSE ROBOT: The Talon robot system features modular design which measures 34 inches long, 22.5 inches wide and 10.98 inches high when arm-stowed while the ground clearance is 2.7 inches. It can carry a payload of 100 pounds and has a drag capacity of up to 170 pounds with gripper, a tow capacity of 749 pounds and a maximum arm lift capacity of 20 pounds. TALON features a disruptor-ready manipulator arm, 360° rotating wrist, gripper, microphone and a loudspeaker. The robot can be configured with a number of sensors to detect gas, chemical, radiation and temperature in HAZMAT duties.

Quantity: 1

Cost: \$406,187.77

- iv. FOSTER MILLER DRAGON RUNNER: The Dragon Runner is a small and lightweight robot designed to provide situational awareness, safety and support for reconnaissance, security, inspection and IED missions. The robot has 4 onboard day/night cameras and can lift up to 10 pounds.

Quantity: 1

Cost: \$119,069.85

- v. ICOR CALIBER T5: The ICOR Caliber T5 is a robot designed for Explosive Ordnance Disposal tasks. The robot is controlled with a command-and-control unit. There is a data and video radio frequency wireless systems, two-way communication with transmitter and receivers with push to talk functionality, a pan-tilt-zoom color camera, and front and rear drive color CCD cameras so that you can get feedback from the robot. The robot will lift, up to 45 lbs. with the arm retracted and 18 lbs. with the arm extended. It has a 360° rotating robotic claw with camera on telescoping arm. It can mount a single recoilless disruptor and function the disruptor with 4 isolated circuits.

Quantity: 4

Cost: \$158,230.46

- vi. ICOR MINI CALIBER: A lightweight, modular, one-person portable SWAT robot with audio/video capabilities. Two-way communication (talk/listen) with omnidirectional microphone and PTT (Push to Talk) functionality. 360-degree rotating robotic claw with wide angle camera and the ability to climb stairs and clear obstacles.

Quantity: 2

Cost: \$51,000

b. Purpose and Authorized Use

Electronic robots are an extension of law enforcement officers. They allow the robot to be a communication platform in de-escalation attempts as well as place a machine in high risk environments in lieu of an Agency member. The use and integration of electronics, like robots, is supported as a national law enforcement best practice. They allow for standoff, safety, and communication to effectively evolve law enforcement into the 21st century. The authorized uses of robots include; inspecting explosives and suspicious packages, safely communicating with individuals in high threat areas, and visually searching areas for hostages, victims, suspects, or other threats facing the community.

c. Expected Life Span

All robots have an expected life span of 8-10 years

d. Fiscal Impact

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

e. Training

Training for all EOD members shall be developed, approved, or presented only as set forth in G.O. 3.01, which includes basic instruction in the identification, handling, and render safe procedures for improvised explosive devices provided by the Federal Bureau of

Investigations (FBI). Ongoing mandated Agency EOD in-service training for proficiency is required. An FBI refresher course is recommended every 3 years.

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 5.07 – Special Operations Group
- ii. EOD P&P 3.01 – EOD Training Plan
- iii. EOD P&P 4.04 – Bomb Vans and Trailers
- iv. EOD P&P 5.01 – Equipment, Operation and Readiness

3. Armored Vehicles – Category 2

Commercially produced wheeled armored personnel vehicles utilized for law enforcement purposes.

a. Description/Capabilities, Quantity, and Cost

- i. ARMORED GROUP BALLISTIC ARMORED TACTICAL TRANSPORT (BATT), MODEL BATT-S W/ ARMORED PIERCING PACKAGE: An armored vehicle that seats 12-14 personnel with open floor plan that allows for rescue of down personnel. It can stop various projectiles, which provides greater safety to citizens and Agency members beyond the protection level of shield and personal body armor.
Quantity: 1
Cost: \$154,870
- ii. ARMORED GROUP BALLISTIC ARMORED TACTICAL TRANSPORT (BATT), MODEL BATT-S W/ ARMORED PIERCING PACKAGE: An armored vehicle that seats 5 personnel with an EOD command post floor plan that allows bomb technicians to operate with the benefit of ballistic protection. It can stop various projectiles, which provides greater safety to citizens and Agency members beyond the protection level of shield and personal body armor.
Quantity: 1
Cost: \$230,535
- iii. 2013 LENCO BEARCAT: An armored vehicle that seats 12-14 personnel with open floor plan that allows for rescue of down personnel. It can stop various projectiles, which provides greater safety to citizens and Agency members beyond the protection level of shield and personal body armor.
Quantity: 2
Cost: \$300,000

b. Purpose and Authorized Use

To be used in response to critical incidents regionally to enhance both community safety and Agency members safety, improve scene containment and stabilization, and assist in resolving critical incidents. The use of armored vehicles shall only be authorized by a watch commander or SRU Commanding Officer, or designee, based on the specific circumstances of a given critical incident. Armored vehicles should only be operated by an SRU team member. Armored vehicles shall not be used for routine patrol operations.

c. Expected Life Span

15 years

d. Fiscal Impact

Annual maintenance cost for each armored vehicle is approximately \$1,000

e. Training

All driver/operators shall be trained in vehicle operations and practical driving instruction. All armored vehicles should only be operated by an SRU team member and in a manner consistent with Agency policy and training.

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 5.30 – Operation of Agency Emergency Vehicle
- ii. SRU P&P. 3.03 – Tactical Response Vehicles

4. LDV Mobile Command Center (MCC) – Category 5

a. Description/Capabilities, Quantity, and Cost

A mobile office that provides shelter, access to Sheriff's Office computer systems and communications, television monitors, workspaces, and exterior cameras. This is a custom built 36 foot LDV emergency response vehicle on a 2006 Freightliner frame.

Quantity: 1

Cost: \$600,000

b. Purpose and Authorized Use

The purpose of the MCC is to provide workspace and communication stations for field command operations. It also has television monitors to monitor news and events in real time. The vehicle is used as a mobile command post for emergency situations which require extended communications and control functions. The MCC may be used as a command post during disaster or emergency response situations. The MCC is a regional asset and as such may be utilized for deployment to other jurisdictions in cases of mutual assistance requests. Due to its unique function, the MCC may be deployed to community events as a static demonstration, with an operator to answer the public's questions about the functions and deployment. The Specialized Services Captain will be responsible for authorizing the use of the MCC.

c. Expected Life Span

20 years

d. Fiscal Impact

Annual maintenance cost is approximately \$5,000

e. Training

All drivers must have completed the California Class B Commercial driving school and be properly licensed. The driver must have completed familiarization training of the MCC. The operator must have completed the familiarization training and be proficient in operating and troubleshooting the generator, satellite system, telephones, computers, external lighting, television monitors, camera, computers, and radios.

f. Legal and Procedural Rules that Govern Each Authorized Use

i. OES P&P. 4.01 – Mobile Command Center

ii. G.O. 5.30 – Operation of Agency Emergency Vehicle

5. LDV Mobile Response Vehicle EOD MCC – Category 5

a. Description/Capabilities, Quantity, and Cost

The EOD MCC provides workspace and communication stations for field command operations. It also has television monitors to monitor news and events in real time. The vehicle is used as a mobile command post for emergency EOD situations which require extended communications and control functions. Due to its unique function, the EOD MCC may be deployed to community events as a static demonstration, with an operator to answer the public's questions about the functions and deployment.

Quantity: 1

Cost: \$278,305

b. Purpose and Authorized Use

To be used during specific circumstances of a critical incident, large event, natural disaster, or community event that is taking place. The Special Operations Group (SOG) Captain will be responsible for authorizing the use of the EOD MCC

c. Expected Life Span

15 years

d. Fiscal Impact

Annual maintenance cost is approximately \$3,000

e. Training

Class A license and internal Agency training required to operate

f. **Legal and Procedural Rules that Govern Each Authorized Use**

- i. EOD P&P 4.04 – Bomb Vans and Trailers
- ii. EOD P&P 5.01 – Equipment, Operation and Readiness
- iii. G.O. 5.30 – Operation of Agency Emergency Vehicle

6. **Ford F550 Mobile Response Vehicle EOD – Category 5**

a. **Description/Capabilities, Quantity, and Cost**

A Ford F-550 and custom exterior storage box which contains equipment utilized to safely deal with situations where explosives, energetic material or suspicious items need to be identified and/or rendered safe.

Quantity: 3

Cost: \$180,000

b. **Purpose and Authorized Use**

The EOD response vehicle is used for explosive identification and render safe callouts.

c. **Expected Life Span**

15 years

d. **Fiscal Impact**

Estimated annual maintenance cost is \$3,000

e. **Training**

All drivers must possess a California Class C driver license.

f. **Legal and Procedural Rules that Govern Each Authorized Use**

- i. EOD P&P 4.04 – Bomb Vans and Trailers
- ii. EOD P&P 5.01– Equipment, Operation and Readiness
- iii. G.O. 5.30 – Operation of Agency Emergency Vehicle

7. **Crisis Intervention Unit (CIU) Vehicle – Category 5**

a. **Description/Capabilities, Quantity, and Cost**

A Ford E-450 mobile office that provides a sheltered workspace with access to Sheriff's Office computers, communications systems, and workspaces during critical incident callout events for the CIU team.

Quantity: 1

Cost: \$180,000

b. **Purpose and Authorized Use**

The CIU vehicle is used for critical incident callouts, specifically when the situation dictates the need for the CIU team.

c. **Expected Life Span**

20 years

d. **Fiscal Impact**

Estimated annual maintenance cost is \$1,000.

e. **Training**

All drivers/operators shall receive training in the safe handling of the vehicle and possess a Class C driver license.

f. **Legal and Procedural Rules that Govern Each Authorized Use**

- i. CIU P&P 5.01– Inventory Control
- ii. SRU P&P 5.01 – Crisis Intervention Unit
- iii. G.O. 5.30 – Operation of Agency Emergency Vehicle

8. **Small Unmanned Aircraft System Mobile Command Center (sUAS MCC) – Category 5**

a. **Description/Capabilities, Quantity, and Cost**

A 2021 Mercedes-Benz 3500XD Sprinter Van that provides workspace and communications for Fields Command Operations. This van is capable of monitoring numerous sUAS flights and video streaming to Command Staff and/or government officials.

Quantity: 1
Cost: \$393,078

b. Purpose and Authorized Use

The sUAS MCC may be deployed to any law enforcement events including, but not limited to, hostage rescue, search & rescue, barricaded subjects, wildland fires and large natural disasters. The sUAS MCC may also be deployed to community events as a static display, with operators to answer questions about the vehicle and its capabilities. The Special Operations Group Captain will be responsible for authorizing the use of the sUAS MCC.

c. Expected Life Span

15 years

d. Fiscal Impact

Estimated annual maintenance cost is \$2,500

e. Training

All drivers/operators shall receive training in the safe handling of the vehicle and possess a Class C driver license.

f. Legal and Procedural Rules that Govern Each Authorized Use

G.O. 5.07 – Special Operations Group

G.O. 5.30 – Operation of Agency Emergency Vehicle

9. *~~50 Caliber Browning Machine Gun – Category 8~~

a. Description/Capabilities, Quantity, and Cost

~~Heavy barrel, automatic, recoil operated, air-cooled machine gun with adjustable headspace, delayed roller bolt, belt fed and fully automatic machinegun capable of firing a .50 caliber projectile.~~

~~Quantity: 2~~

~~Cost: \$14,000 – \$22,000 (Acquired by the ACSO for a nominal cost from the 1033 Program)~~

b. Purpose and Authorized Use

~~These weapons may be utilized under special circumstances or when a specific threat has been identified and deputies require additional firepower to overcome an armed suspect(s). Because of the intense firepower of these weapons, they should only be deployed in specific situations. A serious assessment of the circumstances should be determined prior to choosing the type of special weapon and its deployment. These situations include but are not limited to:~~

~~i. Barricaded suspect(s)~~

~~ii. Sniper situations~~

~~iii. Armed suspects~~

~~iv. Shots fired on scene prior to or during a police response~~

~~v. Acts or threats of violence against victims and or/deputies~~

~~vi. Acts or threats of terrorism against the United States~~

~~vii. At the direction of a supervisor/commander or their designee~~

c. Expected Life Span

~~Indefinite, depending on usage~~

d. Fiscal Impact

~~Estimated annual maintenance cost is \$10,000.~~

e. Training

~~Only deputies who have completed authorized training in the use/handling/firing of the weapons will be assigned to carry and utilize them.~~

f. Legal and Procedural Rules that Govern Each Authorized Use

~~MPU P&P 17.07 – Special Weapons Issuance, and Deployment~~

*ALTHOUGH THE ACSO STILL POSSESSES THIS PIECE OF EQUIPMENT, WE ARE IN THE PROCESS OF DISPOSING OF IT. NO AGENCY MEMBER IS AUTHORIZED TO USE IT AND ANY REFERENCE TO IT HAS BEEN REMOVED FROM AGENCY WRITTEN DIRECTIVES.

10. Rifles and Ammunition – Category 10

Rifles are firearms capable of accurately stopping an armed subject at various distances, with reduced over-penetration than the standard-issued department handgun. They are lightweight, gas operated, magazine fed, shoulder or mount fired weapons, designed for semi-automatic fire. Rifles fire various caliber projectiles (.223, .308, .338, .5.56, 7.62), which are capable of penetrating soft body armor worn by armed suspects.

a. Description/Capabilities, Quantity, and Cost

RIFLES

- i. ACCURACY INTERNATIONAL, AX308, .308 WIN (LONG RIFLE): The Accuracy International AX Rifle is a bolt-action single shot rifle with free-floating barrel and a magazine capacity of ten rounds. Designed around the .308 Winchester cartridge, the AX can be converted for use with other short action cartridges such as the 6.5 Creedmoor - at the user level.
Quantity: 9
Cost: \$5,999
- ii. ACCURACY INTERNATIONAL, AXMC, .308 LAPUA (LONG RIFLE): The AXMC long rifle is a bolt-action single shot rifle with free-floating barrel and a magazine capacity of ten rounds. The AXMC rifle is easily upgradeable with a number of accessories and upgrades which can be purchased from Accuracy International distributors.
Quantity: 1
Cost: \$7,500
- iii. ARMALITE, M15, 5.56X45MM: The M15TAC14 is an AR-15 style rifle which utilizes a 5.56 round.
Quantity: 2
Cost: \$1,850
- iv. BUSHMASTER, XM15-E2S, 5.56X45MM: This Bushmaster Model XM15-E2S is an AR-15 style rifle which utilizes a 5.56 round.
Quantity: 21
Cost: \$949
- v. COLT, AR-15, 5.56X45MM: The Colt AR-15 is a lightweight, magazine-fed, gas-operated semi-automatic rifle. It is a semi-automatic version of the M16 rifle sold for the civilian and law enforcement markets in the United States.
Quantity: 2
Cost: \$2,000
- vi. COLT, AR-15A2, 5.56X45MM: All of the Colt AR-15 Models are essentially the same with slight variations based on the version and year it was produced.
Quantity: 16
Cost: \$1,500
- vii. COLT, AR-15A2 CARBINE, 5.56X45MM: All of the Colt AR-15 Models are essentially the same with slight variations based on the version and year it was produced.
Quantity: 3
Cost: \$1,300
- viii. COLT, AR-15A3, 5.56X45MM: All of the Colt AR-15 Models are essentially the same with slight variations based on the version and year it was produced.
Quantity: 12
Cost: \$900
- ix. COLT, LE CARBINE, 5.56X45MM: This is a specially designed law enforcement weapon. With the 4-position buttstock fully retracted, the Colt Law Enforcement Carbine is less than 32in length and weighs only 6.9 lb. - ideal for tactical deployment and traditional patrol.

- Quantity: 7
Cost: \$1,100
- x. COLT, LE6920, 5.56X45MM: The Colt M4 Trooper 5.56mm 16" (aka Colt Trooper Patrol Carbine) .223 Remington/5.56 NATO chambered semi-automatic is an upgrade to the civilian version of the Colt M4.
Quantity: 182
Cost: \$1,100
- xi. COLT, LE6933, 5.56X45MM: The Colt Enhanced Patrol Rifle is an AR-15 style rifle which utilizes a 5.56 round and is similar in appearance to the other Colt rifles.
Quantity: 17
Cost: \$1,315
- xii. COLT, M4 CARBINE, 5.56X45MM: The Colt AR15 M4 Carbine is an AR-15 style rifle which utilizes a 5.56 round and is similar in appearance to the other Colt Rifles.
Quantity: 11
Cost: \$1,300
- xiii. COLT, SP6920, 5.56X45MM: The Colt SP6920 is Colt's primary M4 Carbine clone sold to civilians and law enforcement in the United States. It features a 16in. (40.6cm) barrel and is practically identical to the Colt M4 Carbines in every other way, except for the lack of fully automatic/burst fire modes.
Quantity: 13
Cost: \$1,300
- xiv. COLT, SPORTER, .223: The AR-15 Sporter is a semi-automatic variant of the AR-15 series of assault rifles.
Quantity: 1
Cost: \$1,400
- xv. COLT, SPORTER HBAR, 5.56X45MM: This Colt Model Sporter Match HBAR is a right-hand semi-auto tactical rifle in 5.56 NATO Cal. It has a 19.5-inch barrel plus a muzzle device. 1/9 twist. An adjustable post front sight with protective sides and an adjustable flip two position aperture rear sight.
Quantity: 1
Cost: \$2,000
- xvi. COLT, SPORTER LW, .223: The AR-15 Sporter is a semi-automatic variant of the AR-15 series of assault rifles.
Quantity: 1
Cost: \$1,400
- xvii. HECKLER & KOCH, 53A3, 5.56X45MM: The HK 53 is a compact rifle. The HK 53 is the short carbine variant of the HK 33 rifle. The HK 53 looks like it has similar proportions as the MP5, but the magazine well and forearm and flash hider are longer, making it a slightly longer weapon.
Quantity: 1
Cost: Discontinued – No pricing available
- xviii. LMT, SPM16, 5.56X45MM: The SPM16 is an AR-15 style rifle which utilizes a 5.56 round.
Quantity: 4
Cost: \$2,000
- xix. LWRC, IC Enhanced, 5.56X45MM: The IC-Enhanced with one-piece Monoforge upper design includes an integrated rail-base that is stronger and lighter. The 9" user configurable rail system with individual rail sections allow the shooter to place accessory rails where they are needed while maintaining its low profile ergonomic fit and function.
Quantity: 1
Cost: \$2,500

- xx. LWRC, ICDI, 5.56X45MM: The IC DI Pistol model combines all of the features found in full-size rifle models, including an LWRCI 10.5" cold hammer forged Ni-Corr treated heavy barrel, modular one-piece free-float standard rail and Monoforge upper receiver.
Quantity: 19
Cost: \$1,500
- xxi. LWRC, ICDIR5B16, 5.56X45MM: Essentially the same as the LWRC ICDI, with slight variations based on the version and year it was produced.
Quantity: 4
Cost: \$1,800
- xxii. LWRC, M61C, 5.56X45MM: The LWRC M61C is a AR-15/M4 platform. It has many upgrades over standard AR-15s, including a Nickel Boron trigger group, monoforge upper receiver, 7075 aluminum forging for additional strength, and type-3 hard coat anodizing.
Quantity: 36
Cost: \$1,400
- xxiii. LWRC, REPR M2, 7.62X51MM (LONG RIFLE): The LWRCI Rapid Engagement Precision Rifle (R.E.P.R.) is a rifle designed to put 7.62 mm NATO rounds on target in a variety of real-world applications.
Quantity: 1
Cost: \$4,200
- xxiv. LWRC, REPR MK11, 7.62X51MM (LONG RIFLE): The LWRCI Rapid Engagement Precision Rifle (R.E.P.R.) is a rifle designed to put 7.62 mm NATO rounds on target in a variety of real-world applications.
Quantity: 1
Cost: \$4,200
- xxv. LWRCI, ICDI, 5.56X45MM: The ICDI is a rifle designed to put 5.56 mm rounds on target in a variety of real-world applications.
Quantity: 19
Cost: \$1,700
- xxvi. ROCK RIVER ARMS, LAR-15, 5.56X45MM: An AR-15 style rifle which utilizes a 5.56 mm round.
Quantity: 58
Cost: \$1,000
- xxvii. SIG SAUER, WRM-400, 5.56X45MM: The WRM-400 is an AR-15 style rifle which utilizes a 5.56 mm round.
Quantity: 7
Cost: \$1,000
- xxviii. SPRINGFIELD ARMORY, M-14, 7.62X51MM: This is a select fire rifle that fires the 7.62x51mm NATO round. The design is derived from the M1 Garand. The M14M is a M14 modified for semi-automatic fire only and was widely sold to US civilians.
Quantity: 1
Cost: \$1,300
- xxix. TRW, M-14, 7.62X51MM: Discontinued – No manufacturer's description available
Quantity: 2
Cost: Discontinued – No pricing available
- xxx. WINCHESTER, M-14, 7.62X51MM: Discontinued – No manufacturer's description available
Quantity: 1
Cost: Discontinued – No pricing available

RIFLE AMMUNITION

- i. SPEER GOLD DOT LE DUTY, .223 REMINGTON, 75 GRAIN, SOFT POINT: Speer LE

Gold Dot Duty Rifle delivers proven ammo technology to the rifle platform for each consumer. The Gold Dot bullet was the first high performance, bonded-core bullet available in handgun ammunition, and has since set the bar very high for duty ammo. These specially designed loads bring law enforcement rifle ammunition to the next level. The kind of performance that is presented with the LE Gold Dot ammunition by Speer is significantly increases the abilities of duty rifles and provides law enforcement personnel a diverse advantage when it matters most. In addition, these new loads boast outstanding feeding in short, very short and standard-length AR platforms.

Quantity: 29,543

Cost: \$1.10 per round

- ii. WINCHESTER RANGER, 5.56MM, 64 GRAIN, RA556B BONDED SOLID BASE: The Winchester Ranger 5.56mm 64gr Bonded Solid Base rifle duty ammunition has a protected soft point designed to initiate rapid and controlled expansion to quickly stop a potential threat. Its bonded lead core maximizes retained weight for consistent terminal performance through a wide range of demanding barriers. The extruded solid base design maximizes penetration even after encountering a tough barrier such as auto glass.

Quantity: 340

Cost: \$1.50 per round

- iii. FEDERAL GOLD MEDAL MATCH 308 WINCHESTER, 168 GRAIN (LONG RIFLE): Federal Gold Medal 308 Winchester ammunition is new production ammo that features a 168 Grain Sierra MatchKing Hollow Point Boat Tail bullet, a non-corrosive boxer primer and the 308 Winchester ammunition is brand new never fired virgin brass casing that can be reloaded up to seven times for those shooters that reload their 308 Winchester ammunition. Sierra MatchKing Boat-tail bullet with Federal's proprietary delivery system. Federal's Gold Medal 308 Winchester ammo offers a muzzle speed of 2650 feet per second and a muzzle energy of 2619 foot pounds. Stringent manufacturing controls give you what many experts and international shooters consider the most accurate match 308 Winchester round available from a factory.

Quantity: 6,180

Cost: \$1.70 per round

- iv. RUAG SWISS P: .308 WINCHESTER STYX ACTION, 167 GRAIN (LONG RIFLE): The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is direction stable. The sophisticated bullet tip provides a reliable hyper expansion to approximately twice the original diameter. Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory 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.

Quantity: 6,520

Cost: \$2.63 per round

- v. RUAG SWISS P: .308 WINCHESTER TACTICAL (GLASS), 163 GRAIN (LONG RIFLE): The challenge is to accurately hit targets behind an angled window or wind shield without the risk of unpredictable bullet deflection. This could endanger bystanders, especially if the shooting line is not perpendicular to the window. Conventional bullets break apart or fragment when penetrating glass which makes accurate shooting impossible. At least 90% of the residual body of the SWISS P Tactical bullet stays intact and it does not fragment at all. Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.

- Quantity: 860
Cost: \$6.25 PER ROUND
- vi. RUAG SWISS P: .308 WINCHESTER MATCH TARGET, 168 GRAIN (LONG RIFLE): This is the perfect round for highly accurate target shooting in competition and training. Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory 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.
Quantity: 200
Cost: \$1.65 per round
- vii. RUAG SWISS P: .338 LAPUA MAGNUM STYX ACTION, 247 GRAIN (LONG RIFLE): The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is direction stable. The sophisticated bullet tip provides a reliable hyper expansion to approximately twice the original diameter. Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory 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 .338 Lapua Mag. SWISS P rounds have an identical point of impact at 300 m which allows the shooter to instantly change the bullet type.
Quantity: 280
Cost: \$5.75 per round
- viii. RUAG SWISS P: .338 LAPUA MAGNUM TACTICAL (GLASS), 250 GRAIN (LONG RIFLE): The challenge is to accurately hit targets behind an angled window or wind shield without the risk of unpredictable bullet deflection. This could endanger bystanders, especially if the shooting line is not perpendicular to the window. Conventional bullets break apart or fragment when penetrating glass which makes accurate shooting impossible. At least 90% of the residual body of the SWISS P Tactical bullet stays intact and it does not fragment at all. Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.
Quantity: 320
Cost: \$4.95 per round
- ix. RUAG SWISS P: .338 LAPUA MAGNUM AP, 260 GRAIN (LONG RIFLE): The most accurate Armor Piercing round the tungsten carbide core provides outstanding penetration power Temperature independent propellant guarantees a consistent point of impact Coordinated ballistics with SWISS P Ball, Target, Styx Action and Tactical rounds up to 300 m.
Quantity: 380
Cost: \$2.30 per round

b. Purpose and Authorized Use

Rifles may be deployed and utilized under specific conditions and circumstances when a potential lethal threat has been identified and personnel require the capability of a rifle to overcome the threat. These are mainly high-risk situations where precision and distance are factors as they are more accurate and effective than standard-issued department handguns. These situations include, but are not limited to:

- i. Barricaded suspect(s)
- ii. Felony warrant service
- iii. VIP protection
- iv. High risk undercover operations
- v. Armed suspects

- vi. Shots fired on-scene prior to or during police response
- vii. Hostage situations
- viii. Acts or threats of violence against hostages, victims, and/or deputies
- ix. Active shooter incidents

Whenever possible, personnel shall obtain permission from a Patrol Supervisor or on scene Tactical Supervisor prior to deploying a patrol rifle.

c. Expected Life Span

15-20 years

d. Fiscal Impact

Estimated annual maintenance cost is \$50-\$100 per rifle.

e. Training

Only personnel who have completed the sixteen-hour ACSO AR-15 training course, or an equivalent POST certified training course authorized by the Regional Training Center, may be assigned to carry and utilize the weapon. Personnel must also complete a re-certification course within twelve months of the original training course, and once a year thereafter. For those assigned to the SRU Reconnaissance Team and possess a long rifle, they must successfully complete a POST certified Basic Sniper Course and participate in documented and verifiable training on a monthly basis

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 2.45 – AR-15 Semi-Automatic Rifle Deployment
- ii. G.O. 5.07 – Special Operations Group
- iii. SRU P&P 3.02 – Specialized Weapons, Equipment, Munitions and Chemical Agents
- iv. Rules and Regulations 3.4.31 – Ammunition
- v. PC 835a – Objectively Reasonable Force to Effect Arrest; Use of Deadly Force

11. Chemical Agents and Smoke Canisters – Category 12

Canisters that contain chemical agents or smoke that are released into the air when deployed.

a. Description/Capabilities, Quantity, and Cost

- i. DEFENSE TECHNOLOGY, POCKET TACTICAL CANISTER, CS, #1016: The Pocket Tactical CS Canister is small, and lightweight. The 0.9 oz. of active agent will burn approximately 20-40 seconds. At 4.75” by 1.4” size, it easily fits in most tactical pouches. This is a launchable canister, 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 canister
Quantity: 108
Cost: \$28
- ii. DEFENSE TECHNOLOGY, FLAMELESS TRI-CHAMBER CS CANISTER, #1032: The design of the Tri-Chamber Flameless CS Canister allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The canister is designed primarily for indoor tactical situations to detect and/or dislodge a barricaded subject. This canister will deliver approximately .70 oz. of agent during its 20-25 seconds burn time. The Tri-Chamber Flameless Canister can be used in crowd control as well as tactical deployment situations by Law Enforcement and Corrections but was designed with the barricade situation in mind. Its applications in tactical situations are primarily to detect and/or dislodge barricaded subjects. The purpose of the Tri-Chamber Flameless Canister is to minimize the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects. The Tri-Chamber Flameless Canister provides the option of delivering a pyrotechnic chemical device indoors, maximizing the chemicals’ effectiveness via heat and vaporization, while minimizing or negating the chance of fire to the structure. The Tri-Chamber Flameless Canister is NOT to be launched utilizing a launching cup.

Quantity: 50 The ACSO already possess 24 of these

Cost: \$46.25

- iii. DEFENSE TECHNOLOGY, OC/CS AEROSOL CANISTER, #1050: Designed for indoor use, this canister contains no CFCs, is not a fire hazard and requires minimal decontamination by comparison to smoke, powders, or liquids. The Aerosol Canister is most commonly used in tactical situations by Law Enforcement and Corrections and was designed with indoor operations in mind when a non-fire producing delivery system is desired. It is most effective when used in confined areas and close to the target area. Used to minimize the risks to all parties through pain compliance, temporary discomfort and/or incapacitation of potentially violent or dangerous subjects. The Aerosol Canister is ideal for cell extractions or barricade situations where the use of pyrotechnic, powder, or liquid devices is not practical or desired. The OC and CS combination provide sufficient effects in confined areas of up to 1,500 square feet. The Aerosol Canister is not recommended for outdoor use.

Quantity: 28

Cost: \$60.15

- iv. DEFENSE TECHNOLOGY, OC VAPOR AEROSOL CANISTER, #1056: The Defense Technology OC Vapor Aerosol Canister is for law enforcement and corrections use to deliver a high concentration of Oleoresin Capsicum (OC) in a powerful mist. The canister is designed for indoor use in confined areas and once deployed inflames the mucous membranes and exposed skin resulting in an intense burning sensation. The incapacitating effect of the OC Vapor on the subject is dramatic with minimal decontamination needed. Removing the subject from the affected area to fresh air will resolve respiratory effects within minutes. The OC Vapor Aerosol Canister is ideal for cell extractions or barricade situations where the use of pyrotechnic, powder, or liquid devices is not practical or desired.

Quantity: 90 The ACSO already possess 16 of these

Cost: \$50.15

- v. DEFENSE TECHNOLOGY, RIOT CONTROL CONTINUOUS DISCHARGE CANISTER, CS, #1082: The Riot Control CS Canister 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 canister can be used to conceal tactical movement or to route a crowd. The volume of smoke and agent is vast and obtrusive. This launchable canister is 6.0 in. by 2.35 in. and holds approximately 2.7 oz. of active agent.

Quantity: 96

Cost: \$29.30

- vi. DEFENSE TECHNOLOGY, MAXIMUM HC SMOKE MILITARY-STYLE CANISTER, #1083: The Military-Style Maximum Smoke Canister comes from the Defense Technology #3 smoke canister. It is a slow burning, high volume, continuous discharge canister designed for outdoor use in crowd management situations. Emits grey-white smoke only for approximately 1.5 to 2 minutes.

Quantity: 203

Cost: \$39.15

- vii. DEFENSE TECHNOLOGY, STINGER 60-CALIBER RUBBER BALL CANISTER, #1087: The Stinger Canister is a maximum effect device that delivers three stimuli for psychological and physiological effects: rubber pellets, light, and sound. The Stinger Canister is most widely used as a crowd management tool. The Rubber Ball Blast Canister is used to deliver 60 Caliber Rubber Balls with the stimuli of light and sound. The canister is most widely used as a crowd management training tool by Law Enforcement and Corrections.

Quantity: 740 The ACSO already possess 203 of these

- Cost: \$50.15
- viii. ~~DEFENSE TECHNOLOGY, STINGER CS RUBBER BALL CANISTER, #1088:~~ The Stinger CS Rubber Ball Canister is a maximum effect device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and CS. The Stinger Canister is most widely used as a crowd management tool by Law Enforcement and Corrections. The Stinger Canister has a blast which is sufficient to project the rubber balls and chemical agent in a 50-foot radius.
Quantity: 189
Cost: \$55.70
- ix. ~~DEFENSE TECHNOLOGY, STINGER 32-CALIBER RUBBER BALL CANISTER, #1090:~~ The Stinger Rubber Ball Canister is a maximum effect device that delivers three stimuli for psychological and physiological effects: rubber pellets, light, and sound. The Stinger Rubber Ball Canister is most widely used as a crowd management tool by Law Enforcement and Corrections. The Stinger Rubber Ball Canister has a blast which is sufficient to project the rubber balls in a 50-foot radius.
Quantity: 203
Cost: \$52.35
- x. DEFENSE TECHNOLOGY, HAN-BALL CANISTER, CS, #1092: The Han-Ball CS Canister is an outdoor use canister expelling its payload in approximately 15-20 seconds. The rubber ball round has an overall size of 4.8" tall, including the fuze head, and 3.1" diameter. This launchable canister holds approximately 1.6 oz. of active agent which is expelled through three ports around the equator of the ball.
Quantity: 400
Cost: \$40.75
- xi. DEFENSE TECHNOLOGY, HAN-BALL CANISTER, SAF-SMOKE, #1093: The Han-Ball Saf-Smoke Canister is fast burning high volume continuous discharge canister. The outdoor use canister expels its payload in approximately 15-20 seconds. The rubber ball round has an overall size of 4.8" tall, including the fuze head, and 3.1" diameter. This launchable canister holds approximately 1.6 oz. of active agent which is expelled through three ports around the equator of the ball.
Quantity: 215
Cost: \$40.75
- xii. ~~DEFENSE TECHNOLOGY, RUBBER BALL BLAST CANISTER, OC, #1095:~~ The Rubber Ball OC Blast Canister is a maximum effect device that delivers three stimuli for psychological and physiological effects: light, sound, and OC. The Rubber Ball OC Blast is most widely used as a crowd management tool by Law Enforcement and Corrections. The Rubber Ball OC Blast Canister combines loud report and flash with effects of chemical agents.
Quantity: 249
Cost: \$48.75
- xiii. COMBINED TACTICAL SYSTEMS, CS BAFFLED CANISTER, PYRO, LOW FLAME POTENTIAL. #5230B: Pyrotechnic canister designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.
Quantity: 24
Cost: \$50.00
- xiv. ~~COMBINED TACTICAL SYSTEMS, OUTDOOR 92 SERIES JET-LITE RUBBER BALL CANISTER (WHITE SMOKE), #9210:~~ The 9210 Smoke Jet-Lite Rubber Ball Canister is one of the smaller diameter burning canisters that discharges a high volume of smoke and chemical agents through multiple emission ports. Specifically, for outdoor use and should not be deployed from rooftops, in crawl spaces or indoors due to fire producing capability. Can be hand thrown or launched.
Quantity: 20

Cost: \$33.99

- xv. ~~COMBINED TACTICAL SYSTEMS, CS JET-LITE RUBBER BALL CANISTER, PYRO (WHITE SMOKE & CS), #9230: The 9230 CS Jet-Lite Rubber Ball Canister is one of the smaller diameter burning canisters that discharges a high volume of chemical agents through multiple emission ports. Specifically, for outdoor use and should not be deployed from rooftops, in crawl spaces or indoors due to fire producing capability. Can be hand thrown or launched.~~

Quantity: 68

Cost: \$50.00

b. Purpose and Authorized Use

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

- i. Self-destructive, dangerous, and/or combative individuals
- ii. Riot/crowd management and civil unrest incidents
- iii. Circumstances where a tactical advantage can be obtained
- iv. Potentially vicious animals
- v. Training exercises or approved demonstrations

Agency members are authorized to use them during the performance of their duties to protect life and property.

PC 13652 shall be followed, which describes the prohibited uses of kinetic energy projectiles and chemical agents during crowd management events.

c. Expected Life Span

5 years from manufacturing date

d. Fiscal Impact

No annual maintenance

e. Training

Agency members utilizing chemical agents are trained in-house by POST chemical agent instructors.

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 1.05 – Use of Force
- ii. G.O. 1.21 – Less Lethal Weapons System
- iii. RTC P&P 9.02 – Safety Policy – Chemical Agents
- iv. SRU P&P 3.02 – Specialized Weapons, Equipment, Munitions and Chemical Agents
- v. SRU P&P 5.03 – Equipment Issuance, Inventory and Accountability
- vi. PC 13652 – Kinetic Energy Projectiles and Chemical Agents Use Limitations

12. Light-Sound Diversionary Devices (LSDD) – Category 12

A LSDD is ideal for deescalating dangerous situations without the use of a higher level of force. They are used for distracting dangerous suspects during assaults, hostage rescue, room entry, or other high-risk arrest situations.

a. Description/Capabilities, Quantity, and Cost

- x. DEFENSE TECHNOLOGY, DISTRACTION DEVICE 12-GRAM RELOAD, #8901: The Distraction Device Reload utilizes a standard military-style M201A1 type fuse and produces 175 dB of sound output at 5 feet and 6-8 million candelas for 10 milliseconds. The reload is available with and without a safety clip.
Quantity: 7
Cost: \$36.75
- xi. COMBINED TACTICAL SYSTEMS, MINI-BANG STEEL BODY, #7290M: The CTS 7290M Mini Light and Sound Distraction Device exhibits all the same attributes of its larger counterpart but in a smaller and lighter package. Weighing in at just 15 ounces the 7290M is approximately 30% lighter than the 7290 but still has the same 175db

output of the 7290 and produces 6-8 million candelas of light. The patented design of the 7290M, incorporates a porting system that eliminates movement of the body at detonation even if the top or bottom of the device should be in contact with a hard surface. In addition, internal adjustments have greatly reduced smoke output.

Quantity: 100

Cost: \$45.00

b. Purpose and Authorized Use

To produce atmospheric over-pressure and brilliant white light and, as a result, can cause short-term (6-8 seconds) physiological/psychological sensory deprivation to give Agency members a tactical advantage. To be used in hostage and barricaded situations, high risk warrant services, and any other situation where their use would enhance Agency members' and hostages' safety.

c. Expected Life Span

5 years from manufacturing date

d. Fiscal Impact

No annual maintenance

e. Training

Agency members utilizing LSDDs are trained by POST certified instructors.

f. Legal and Procedural Rules that Govern Each Authorized Use

SRU P&P 3.02 – Specialized Weapons, Equipment, Munitions and Chemical Agents

13. Long Range Acoustic Device 100X (LRAD) – Category 13

a. Description/Capabilities, Quantity, and Cost

The LRAD is a high intensity directional acoustical array for long-range, crystal-clear hailing, notification, and an unmistakable warning tone. The LRAD is primarily used as a communication device that can effectively broadcast messages through wind, engine and background noise and is able to be clearly understood even inside vehicles and some buildings. The Leading Portable Acoustic Hailing Device for On-Scene and Tactical Communications. 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. Optimized driver and waveguide technology coupled with power efficiency ensure several hours of clear, continuous communication. The LRAD warning tone safely alerts attention to the voice messages that follow, establishes large standoff zones, and is the safer crowd control alternative to non-lethal and kinetic measures. The clear communication leads to a safer environment during critical incidents and enhances the safety of the community, criminal subjects, and law enforcement. Absent exigent circumstances and to protect a person from the threat of death or great bodily injury, the LRAD shall not be used as a weapon.

Quantity: 2

Cost: \$9,754

b. Purpose and Authorized Use

The LRAD 100X is not designed to be a weapon. It is utilized to safely communicate critical instructions and emergency warning tones to people over a large distance. Only trained personnel from the Special Response Unit or Crisis Intervention Unit will deploy the LRAD 100X during tactical operations to include search warrant executions, barricaded subjects, crowd management operations, and the safe de-escalation of events surrounding subjects suffering from a mental health crisis.

c. Expected Life Span

Indefinite

d. Fiscal Impact

No annual maintenance cost

e. **Training**

In-field training according to the manufacturer's instruction manual

f. **Legal and Procedural Rules that Govern Each Authorized Use**

- i. CIU P&P 5.01 – Inventory Control
- ii. SRU P&P 3.04 – Long Range Acoustical Device

14. Long Range Acoustic Device 300X (LRAD) – Category 13

a. **Description/Capabilities, Quantity, and Cost**

The LRAD 300X is a vehicle mounted and transported device with high intensity directional acoustical array for long-range, crystal-clear hailing, notification, and an unmistakable warning tone. The LRAD 300X broadcasts clear, authoritative voice commands and is primarily used as a communication device that can effectively broadcast messages through wind, engine and background noise and is able to be clearly understood even inside vehicles and some buildings. Live or recorded broadcasts from the LRAD 300X are heard above crowd and background noise to ensure every message is clearly delivered. Optimized driver and waveguide technology coupled with power efficiency ensure several hours of clear, continuous communication. The LRAD warning tone safely alerts attention to the voice messages that follow, establishes large standoff zones, and is the safer crowd control alternative to non-lethal and kinetic measures. The clear communication leads to a safer environment during critical incidents and enhances the safety of the community, criminal subjects, and law enforcement. Absent exigent circumstances and to protect a person from the threat of death or great bodily injury, the LRAD shall not be used as a weapon.

Quantity: 1

Cost: \$10,000

b. **Purpose and Authorized Use**

The LRAD 300X is not designed to be a weapon. It is utilized to safely communicate critical instructions and emergency warning tones to people over a large distance. Only trained personnel from the Special Response Unit or Crisis Intervention Unit will deploy the LRAD 300X during tactical operations to include search warrant executions, barricaded subjects, crowd management operations, and the safe de-escalation of events surrounding subjects suffering from a mental health crisis.

c. **Expected Life Span**

Indefinite

d. **Fiscal Impact**

No annual maintenance cost

e. **Training**

In-field training according to the manufacturer's instruction manual

f. **Legal and Procedural Rules that Govern Each Authorized Use**

- i. CIU P&P 5.01 – Inventory Control
- ii. SRU P&P 3.03 – Tactical Response Vehicles
- iii. SRU P&P 3.04 – Long Range Acoustical Device

15. 40MM Less Lethal Launcher and Rounds – Category 14

40MM launchers are utilized by Agency members as a less lethal tool to launch impact rounds.

a. **Description/Capabilities, Quantity, and Cost**

- i. DEFENSE TECHNOLOGY, 40MM LMT TACTICAL SINGLE LAUNCHER, EXPANDABLE STOCK, #1425: The 40MM Single Launcher is a tactical single shot launcher that features an expandable ROGERS Super Stoc and an adjustable Integrated Front Grip (IFG) with light rail. It will fire standard 40mm less lethal ammunition, up to 4.8 inches in cartridge length. It will launch a 40MM less lethal round up to 131 feet.

- Quantity: 28
Cost: \$985.70
- ii. PENN ARMS, GL-1 COMPACT 40MM SINGLE LAUNCHER, #L140-4: A 40mm compact single-shot break-open frame launcher with a rifled barrel and folding stock.
Quantity: 4
Cost: \$794.32
- iii. DEFENSE TECHNOLOGY, FERRET 40MM LIQUID BARRICADE PENETRATOR ROUND, CS, #2262: 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.
Quantity: 100 The ACSO already possess 62 of these
Cost: \$28.15
- iv. DEFENSE TECHNOLOGY, FERRET 40MM POWDER BARRICADE ROUND, CS, #2292: 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.
Quantity: 100 The ACSO already possess 59 of these
Cost: \$27.85
- ~~v. DEFENSE TECHNOLOGY, BEAN BAG ROUND 40MM, #6025: The 40mm Bean Bag Round incorporates a 4.8-inch casing that contains one (1) silica and sand-filled bag. The 40mm utilizes smokeless powder and therefore has more consistent velocities than its black powder counterpart. The 40mm Bean Bag Round is most widely used as a crowd management tool by Law Enforcement and Corrections when there is a need to target individual instigators. It has also been successfully used as a dynamic, high-energy single-subject round for incapacitation or distraction.
Quantity: 13
Cost: \$28.10~~
- vi. DEFENSE TECHNOLOGY, 40MM AERIAL WARNING/SIGNALING MUNITION WITH OC, 100 METERS WITH PAYLOAD, #6029OC: The 40 mm Warning/Signaling Muniton will produce 170 dB of sound and 5 million candelas of light. This munition has an operational range of 100 meters. Launched from a 40 mm platform, this munition gives the operator the ability to engage people, vehicles or vessels from a safe stand-off position. In open waters, the flash and sound are easily observable at great distances.
Quantity: 50 The ACSO already possess 10 of these
Cost: \$45.60
- vii. DEFENSE TECHNOLOGY, MUZZLE BLAST 40MM ROUND, CS, #6042: The 40 mm Muzzle Blast CS Round is widely used as a crowd management tool for the immediate and close deployment. It can also be employed in tactical operations such as barricaded subjects, room clearing, area denial, and for small space contamination, and a means of contaminating crawl spaces and attics. As a pain compliance round it is an excellent device for deploying chemical-laden CS powder at close ranges for indoor or outdoor operations. The cloud of agent is very effective in filling holes in dispersals lines or engaging crowds at close distances.
Quantity: 79

- Cost: \$26.75
- viii. DEFENSE TECHNOLOGY, MULTIPLE RUBBER BATON ROUND 40MM, #6064: The 40 mm Multiple Rubber Baton Round is most widely used as a crowd management tool by Law Enforcement and Corrections. The round contains three rubber projectiles. It utilizes smokeless powder as the propellant and has more consistent velocities and tighter patterns compared to its 37 mm black powder counterpart. It is suitable for administering a means of pain compliance over a greater distance than most of its counterparts. Used for routing crowds or groups that are mildly resistive.
Quantity: 340
Cost: \$28.10
- ix. DEFENSE TECHNOLOGY, STINGER 40MM 60-CALIBER RUBBER BALLS ROUND, #6097: The Stinger 40 mm 60-Caliber Round is most widely used as a crowd management tool by Law Enforcement and Corrections. The round contains approximately eighteen 60-Caliber rubber balls. It utilizes smokeless powder as the propellant and has more consistent velocities and tighter patterns compared to its 37 mm counterpart. It is suitable for administering a means of pain compliance over a greater distance than its 32-Caliber Stinger® counterpart. Used for routing crowds or groups that are mildly resistive.
Quantity: 300 The ACSO already possess 149 of these
Cost: \$30.30
- x. DEFENSE TECHNOLOGY, MULTIPLE WOOD BATON ROUND 40MM, #6098: The 40 mm Multiple Wood Baton Round is most widely used as a crowd management tool by Law Enforcement and Corrections. The round contains three wooden projectiles. It utilizes smokeless powder as the propellant and has more consistent velocities and tighter patterns compared to its 37 mm black powder counterpart. It is suitable for administering a means of pain compliance over a greater distance than most of its counterparts. Used for routing crowds or groups that is mildly resistive.
Quantity: 70
Cost: \$27.05
- xi. ~~DEFENSE TECHNOLOGY, MULTIPLE FOAM BATON ROUND 40MM, #6099: The 40mm Foam Baton incorporates a 4.8-inch casing that contains three (3) foam projectiles. The 40mm utilizes smokeless powder and therefore has more consistent velocities and tighter projectile spreads than its black powder counterpart. The 40mm Foam Baton Round is most widely used as a pain compliance option by Law Enforcement and Corrections where stand-off distances are limited, such as may be the case in indoor operations. It has also proven successful in numerous instances as a dynamic energy single subject round in close range encounters.~~
Quantity: 93
Cost: \$28.10
- xii. ~~DEFENSE TECHNOLOGY, DIRECT IMPACT 40MM OC CRUSHABLE FOAM ROUND, #6320: 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. When loaded with OC powder, the Direct Impact combines blunt-trauma with the effects of an irritant powder, maximizing the potential for incapacitation.~~
Quantity: 191
Cost: \$30.50
- xiii. ~~DEFENSE TECHNOLOGY, DIRECT IMPACT 40MM INERT CRUSHABLE FOAM ROUND, #6323: 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. The black nosed inert munition is a great option for training.~~
Quantity: 118
Cost: \$28.10

- xiv. DEFENSE TECHNOLOGY, EXACT IMPACT 40MM STANDARD RANGE SPONGE ROUND, #6325: 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.
Quantity: 1000 The ACSO already possess 557 of these
Cost: \$28.65
- xv. ~~DEFENSE TECHNOLOGY, EXACT IMPACT 40MM EXTENDED RANGE SPONGE ROUND, #6325LE: 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. This round has an extended range over the standard round.~~
Quantity: 64
Cost: \$30.80
- xvi. ~~DEFENSE TECHNOLOGY, DIRECT IMPACT 40MM MARKING CRUSHABLE FOAM Round, #6326: 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. When loaded with a green marking agent, the Direct Impact can be used to indicate the aggressor in a crowd or riot situation to the team on the ground.~~
Quantity: 55
Cost: \$30.30
- xvii. COMBINED TACTICAL SYSTEMS, 40MM CS LIQUID BARRICADE, SPIN STABILIZED, 4.1" LONG, #4330: Liquid CS filled projectile penetrates intermediate barriers and delivers irritant agents into an adjacent room
Quantity: 100 The ACSO already possess 50 of these
Cost: \$29.70
- xviii. COMBINED TACTICAL SYSTEMS, 40MM CS POWDER BARRICADE, SPIN STABILIZED, 4.1" LONG, #4431: CS powder filled projectile penetrates intermediate barriers and delivers irritant agents into an adjacent room.
Quantity: 100 The ACSO already possess 50 of these
Cost: \$31.90
- xix. ~~COMBINED TACTICAL SYSTEMS, 40MM .30 CAL STING-BALLS, SMOKELESS, 4.8" LONG, #4553: Sting-balls projectile delivering a blunt trauma effect.~~
Quantity: 60
Cost: \$29.65
- xx. ~~COMBINED TACTICAL SYSTEMS, 40MM SPONGE, SMOKELESS, SPIN STABILIZED, 4" LONG, #4557: a spin-stabilized sponge projectile delivering a blunt trauma effect.~~
Quantity: 118
Cost: \$26.65
- xxi. ~~COMBINED TACTICAL SYSTEMS, 40MM .60 CAL STING-BALLS, SMOKELESS, 4.8" LONG #4558: 40MM crowd dispersal cartridge containing a payload of .60 caliber stinging pellets. To be fired below the beltline at an approaching non-compliant individual or crowd.~~
Quantity: 60
Cost: \$28.25

b. Purpose and Authorized Use

To deescalate conflict. Situations for use of the less lethal weapon system may include, but are not limited to:

- i. Self-destructive, dangerous, and/or combative individuals
- ii. Riot/crowd management and civil unrest incidents
- iii. Circumstances where a tactical advantage can be obtained
- iv. Potentially vicious animals
- v. Training exercises or approved demonstrations

Agency members are authorized to use them during the performance of their duties to protect life and property.

PC 13652 shall be followed, which describes the prohibited uses of kinetic energy projectiles and chemical agents during crowd management events.

c. Expected Life Span

5 years

d. Fiscal Impact

No annual maintenance

e. Training

Agency members utilizing chemical agents are trained by POST less lethal instructors in a POST approved course.

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 1.05 – Use of Force
- ii. G.O. 1.21 – Less Lethal Weapons System
- iii. RTC P&P 9.02 – Safety Policy – Chemical Agents
- iv. SRU P&P 3.02 – Specialized Weapons, Equipment, Munitions and Chemical Agents
- v. SRU P&P 5.03 – Equipment Issuance, Inventory and Accountability
- vi. PC 13652 – Kinetic Energy Projectiles and Chemical Agents Use Limitations

16. FN 303 Less Lethal Launcher and Projectiles – Category 14

a. Description/Capabilities, Quantity, and Cost

- i. FN 303 LESS LETHAL LAUNCHER: A less lethal launcher that uses compressed air to fire .68 caliber projectiles. It is designed to cause blunt trauma without causing critical injuries.
Quantity: 25
Cost: \$1,500
- ii. FN 303 PROJECTILES: Completely dedicated to reducing lethality, the basis of the FN 303 concept lies in its unique projectiles. These .68 caliber, 8.5-gram projectiles utilize a fin-stabilized polystyrene body and a non-toxic bismuth forward payload to provide more accuracy and greater effective range than other less lethal systems. The primary effect of the projectile is trauma, which directly neutralizes the aggressor.
 1. WASHABLE PAINT (VARIOUS COLORS): This projectile is intended for training and for marking suspects and objects with a washable colorant.
Quantity: 6,000
Cost: \$2.09 per round
 2. PAVA/OC: This projectile is intended as an irritant for individual suspects, point-specific targets, or small-area denial. The active ingredient is 0.5% PAVA/OC in a powder form for ease of storage, deployment, and clean-up.
Quantity: 1,200
Cost: \$3.50 per round
 3. CLEAR: This projectile is intended for training, point-specific impact, or suspect distraction.
Quantity: 1,200
Cost: \$2.09 per round
 4. INDELIBLE PAINT: This projectile is intended for marking suspects and objects with

an indelible colorant for later identification, arrest or questioning.

Quantity: 2,000

Cost: \$2.15 per round

b. Purpose and Authorized Use

To deescalate conflict. Situations for use of the less lethal weapon system may include, but are not limited to:

- i. Self-destructive, dangerous, and/or combative individuals
- ii. Riot/crowd management and civil unrest incidents
- iii. Circumstances where a tactical advantage can be obtained
- iv. Potentially vicious animals
- v. Training exercises or approved demonstrations

Agency members are authorized to use them during the performance of their duties to protect life and property.

PC 13652 shall be followed, which describes the prohibited uses of kinetic energy projectiles and chemical agents during crowd management events.

c. Expected Life Span

FN 303 Less Lethal Launcher – Indefinite

FN 303 Projectiles – 5 years from manufacturing date

d. Fiscal Impact

Estimated annual maintenance cost is \$400 for miscellaneous parts

e. Training

Agency members utilizing chemical agents are trained by POST less lethal instructors in a POST approved course.

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 1.05 – Use of Force
- ii. G.O. 1.21 – Less Lethal Weapons System
- iii. D&C P&P 8.23 – Santa Rita Jail-Control of Firearms, Weapons, Ammunition and Armory
- iv. RTC P&P 9.02 – Safety Policy-Chemical Agents
- v. SRU P&P 3.02 – Specialized Weapons, Equipment, Munitions and Chemical Agents
- vi. PC 13652 – Kinetic Energy Projectiles and Chemical Agents Use Limitations

17. Launching Cup – Category 14

a. Description/Capabilities, Quantity, and Cost

A 12-gauge gas launching cup that allows less lethal munitions to be launched from a 12-gauge shotgun when attached.

Quantity: 1

Cost: \$200

b. Purpose and Authorized Use

Used during barricaded situations and search warrants, at the discretion of the on-scene Incident Commander.

PC 13652 shall be followed, which describes the prohibited uses of kinetic energy projectiles and chemical agents during crowd management events.

c. Expected Life Span

Indefinite

d. Fiscal Impact

Estimated annual maintenance cost is \$200 for miscellaneous parts

e. Training

Users are certified in the use of the shotguns and certified in the deployment of chemical agents.

f. Legal and Procedural Rules that Govern Each Authorized Use

- i. G.O. 1.05 – Use of Force

- ii. G.O. 1.21 – Less Lethal Weapons System
- iii. SRU P&P 3.02 – Specialized Weapons, Equipment, Munitions and Chemical Agents
- iv. RTC P&P 9.02 – Safety Policy-Chemical Agents
- v. PC 13652 – Kinetic Energy Projectiles and Chemical Agents Use Limitations

**Unless otherwise indicated, all above costs are per item