

Attachment: 706.4  
Concord Police Department  
2022 Annual Military Equipment Report

## 1. Robot

**a. Description, Quantity, Capabilities, and Purchase Cost:**

Transcend Vantage Patrol Robot. Qty: 1 Total Cost: \$26,000. Battery powered, remote operated device that is equipped with non-recording cameras and two-way radio capabilities. This robot can climb stairs, open doors and be the delivery mechanism for chemical agents. Used during high-risk incidents to aid officers in the de-escalation of a situation through intelligence gathering and negotiations. The use of this equipment is limited to trained members of the CPD SWAT team. Situations that qualify for its use are high risk operations including but not limited to hostage situations, active-shooters, barricaded suspect incidents and/or high-risk warrant services and per CPD Policy 45-SWAT and Negotiations Management.

**b. Purpose**

To be used remotely to gain visual and audio information to aid in the de-escalation and resolution of high risk situations, to deliver negotiations phone, open doors, and clear buildings in search for victims, suspects and/or explosives. Before entering a structure, particularly in a tactically compromised and dangerous situation, knowledge of a subject's location is critical and the robot can provide this situational awareness without placing undue risk to human life. Cameras can also help determine if a subject is armed and also if there are other subjects inside that need assistance. The two-way speakers can be used to facilitate communication, and determine resistance level which aids in the planning and decision making by officers.

**c. Authorized Use:**

CPD SWAT officers under the supervision of the Tactical/Incident Commander, who have completed the required training are permitted to operate the robot. Deployment missions related to SWAT are outlined within CPD Policy 45- SWAT and Negotiations Management. The SWAT team undergoes an estimated 120 hours of training per year and the use of the robot during training is included within these hours. Such use includes the clearing of a home after a barricaded suspect has been taken into custody in order to search for explosive hazards or other hidden victims or suspects prior to officers entering the home to search and deem the residence safe to occupy. SWAT officers receive specific training from the manufacturer on the use and operation of the robot and receive annual familiarization training with the robot.

**d. Expected Lifespan:**

Estimated to be 10 years, however dependent upon operational usage and wear.

**e. Fiscal Impact:**

No anticipated annual maintenance costs for the robot. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of new robot(s) or replacement robot(s) may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## 2. Unmanned Aerial Vehicles

### a. Description, Quantity, Capabilities, and Purchase Cost:

Autel Evo II Flir Radiometric UAS and Go-Command Kit. Qty: 3. Total Cost: \$39,999.00. The Evo II is a commercial-grade UAS primarily used for outdoor environments to support first responders during high-risk situations, evidence processing, search and rescue missions and other situations as outlined in CPD Policy 606- Unmanned Aerial System (UAS) Operations. The UAS is a battery powered, remote operated device with a standard and SMART controller system authorized for night operations and in compliance with FAA regulations. The UAS has a Flir thermal camera to assist for night operations and has the ability to record data. There is a flight time of approximately 35 minutes per battery, depending on weather and flight conditions. The Go-Command kit consists of a protective storage/deployment case containing power source, accessories for flight operations and a 24" LED viewing monitor.

Brinc Lemur UAS kit. Qty: 2. Total Cost: \$16,498.00. The Brinc Lemur UAS is a commercial-grade UAS primarily used for indoor environments to support first responders in high-risk situations and other situations as outlined in CPD Policy 606- Unmanned Aerial System (UAS) Operations. The UAS provides remote viewing and audio data to aid in the de-escalation of high-risk incidents. The UAS is a battery powered, remote operated device with a standard controller system. The UAS is equipped with an Infrared (IR) camera system for low light conditions, cellular based two-way communications and turtle-mode for self-righting capabilities. The UAS is capable of opening doors that are ajar. There is a flight time of approximately 30 minutes per battery, and/or 10 hour perch time for communications and/or monitoring purposes without flight.

Loki MK2 UAS. Qty: 2. Total Cost: \$13,771.80. The Loki is a commercial grade UAS primarily used for indoor environments to support first responders in high-risk situations by providing remote viewing and audio data to aid in the de-escalation of incidents. The UAS may assist in other first-responder operations as outlined in CPD Policy 606- Unmanned Aerial System (UAS) Operations. The UAS is a battery powered, remote operated device with a standard controller system. The UAS is operated independently via a single controller system. There is a flight time of approximately 16 minutes, and/or 6 hours of perched battery life for monitoring purposes without flight.

EMax TinyHawk III Trainers. Qty: 0. Planned to purchase two units in 2022. Total Cost: \$800.00. The EMAX TinyHawk III is an indoor training UAS that would be used only for the purpose of teaching new UAS operators how to operate a UAS indoors. Using the inexpensive TinyHawk as a training tool while officers learn how to operate a UAS indoors will save significant wear and tear on the much more expensive Brink and Loki UAS and would insure they remain ready for operational purposes. The TinyHawk UAS is a battery powered, remote operated device with a standard controller system. There is a flight time of approximately 15 minutes per battery.

### b. Purpose:

UAS may be utilized to enhance the Department's mission of protecting lives and property and for the collection of data to aid in first responder services in accordance with CPD Policy 606- Unmanned Aerial System (UAS) Operations.

### c. Authorized Use:

To be deployed by CPD UAS team members in accordance with CPD Policy 606- Unmanned Aerial System (UAS) Operations. All UAS team members are required to hold a Part 107 UAS remote pilot certification and team members undergo Department

led training and outside UAS training that address basic operations, indoor operations and nighttime operations. The following authorized uses of a UAS include:

- Post-incident crime scene preservation and documentation.
- HAZMAT response;
- Locating individuals actively fleeing or hiding in an attempt to avoid apprehension;
- Search and rescue;
- Barricaded suspects and other high-risk tactical operations;
- Locating individuals who are missing or a danger to themselves or others;
- Disaster response (Flood, earthquakes, etc.);
- Training missions;
- Fire response;
- Pursuant to a search warrant;
- Any situation where the use of a UAS would enhance public safety and/or officer safety and would be deemed lawful and reasonable.

**d. Expected Lifespan:**

Estimated at 10 years, however dependent upon operational usage and wear.

**e. Fiscal Impact:**

Estimated annual maintenance costs are \$2000.00. UAS were paid from CPD existing budget and \$30,000 grant funding support. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of new UAS(s) or replacement UAS(s) may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

### **3. Armored Rescue Vehicle**

**a. Description, Quantity, Capabilities, and Purchase Cost:**

Mamba Mk1 Armored Personnel Carrier. Qty: 1. Donation. Acquired through the California Office of Emergency Services (CalOES) Public Safety Procurement Program in 2011 for no cost. This equipment was painted, marked with police insignia, and equipped with police emergency lighting that was funded by community donations. The Armored Personnel Carrier is a four-wheeled, right-side driven vehicle designed to provide a high degree of ballistic protection to officers and community members during high-risk incidents and has the capability to withstand multiple bullet strikes from small arms fire.

Ford E-350 Ballistic Van. Qty: 1. Non-governmental donation. The van is a standard E-350, four-wheeled, left-hand drive vehicle that has been reinforced with a ballistic windshield, ballistic body and running boards along the side. The running boards allow for the ease and speed of officer deployments during high-risk incidents. The van is capable of withstanding multiple bullet strikes from small arms fire.

**b. Purpose:**

To be used during high-risk incidents to enhance officer and community safety, improve scene containment and stabilization, and assist in resolving critical and high-risk incidents where such ballistic protection is required to safeguard human life.

**c. Authorized Use:**

The use of the Mamba MK1 is strictly reserved for CPD SWAT officers who have undergone advanced armored vehicle operations driver training and assessment both

held by outside law enforcement training sessions as well as internal driver training during the estimated 120 hours of yearly training CPD SWAT undergo. The use of the E-350 ballistic van does not require any special license or training and may be used by any CPD officer with the approval of a Command Officer during high-risk incidents. The use of the ballistic vehicles would include performing a life-saving rescue and evacuation of an officer or community member from a place of extreme danger where ballistic protection is required to safely complete the mission and not expose officers or community members to greater risk of injury or death, as well as other situations as outlined in CPD Policy 45- SWAT and Negotiations Management.

d. **Expected Lifespan:**

Estimated to be 20 years, however dependent upon operational usage and wear.

e. **Fiscal Impact:**

Estimated annual maintenance cost of \$500.00.

#### 4. Crisis Negotiations Team Van

a. **Description, Quantity, Capabilities, and Purchase Cost:**

Ford E-450 Decommissioned Public Transportation Bus. Qty: 1. Donated to CPD by County Connection Bus Services. The bus is equipped with workstations, cabinets and white boards instead of passenger seating.

b. **Purpose:**

This converted bus serves as a self-contained mobile base of operations and transportation for Crisis Negotiations team members in the response to high-risk incidents in which CPD Negotiators have been requested and approved to assist by the SWAT Team Commander.

c. **Authorized Use:**

No specialty driver license or training is required to drive the bus. The bus is driven by members of the Crisis Negotiations Team and/or SWAT Team in response to high-risk incidents and SWAT training.

d. **Expected Lifespan:**

Estimated to be 15 years, however dependent upon operational usage and wear.

e. **Fiscal Impact:**

Estimated annual maintenance cost of \$500.00.

#### 5. Tactical Dispatch Van

a. **Description, Quantity, Capabilities, and Purchase Cost:**

Ford E-450 Decommissioned Public Transportation Bus. Qty: 1. Donated to CPD by County Connection Bus Services. The bus is equipped with workstations, cabinets and white boards instead of passenger seating.

b. **Purpose:**

This converted bus serves as a self-contained mobile base of operations and transportation for the Tactical Dispatch team in the response to high-risk incidents in which CPD Tactical Dispatchers have been requested and approved to assist by the SWAT Team Commander. The van also serves as a back-up mobile Dispatch Center in the event the Dispatch Center at CPD Headquarters is evacuated and dispatch services to the community cannot be delivered from CPD headquarters.

- c. **Authorized Use:**  
No advanced driver license or training is required to drive the bus. The bus is driven by members of the Tactical Dispatch team and/or SWAT Team in response to high-risk incidents and SWAT training.
- d. **Expected Lifespan:**  
Estimated to be 15 years, however dependent upon operational usage and wear.
- e. **Fiscal Impact:**  
Estimated annual maintenance cost of \$500.00.

## 6. Kinetic Breaching Tool

- a. **Description, Quantity, Capabilities, and Purchase Cost:**  
Aardvark Kinetic Breaching Tool (KBT). Qty: 1. Total Cost: \$9,650. The KBT utilizes a proprietary .45 caliber handgun blank to deliver up to 850 ft/lbs of force through a narrowed and hardened steel ram to force open door hinges and to aid in the breaching of fortified doors. All of the force is mechanically driven through the ram and no projectile or explosive energy leaves the device. The tool weighs 28 lbs., features an 8-round cylinder for the KBT .45 caliber blanks, and a shock reduction handle system that reduces recoil force for single person operation.
- b. **Purpose:**  
To rapidly open secured or barricaded doors in the most efficient and safest way during high-risk incidents, when manual tools such as a pry-bar or handheld ram would be less effective or non-effective.
- c. **Authorized Use:**  
CPD SWAT officers who have been trained in its use. CPD SWAT officers that are POST-Certified Breaching Instructors provide a minimum of 10 hours of breaching training to the team each year. CPD SWAT officers undergo an estimated 120 hours of training per year where such breaching capabilities is also incorporated. The situations where such use may be authorized are outlined within CPD Policy 45- SWAT and Negotiations Management, and would include an armed and dangerous barricaded suspect where the speed of entry into a fortified structure is paramount to aid in the safe apprehension of the suspect.
- d. **Expected Lifespan:**  
Estimated to be 10 years, however dependent upon operational usage and wear.
- e. **Fiscal Impact:**  
CPD has an inventory of 50 blanks for this KBT at a cost of \$40 per blank. There is no known annual maintenance cost for the KBT unit. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of the KPT .45 caliber blanks and/or KBT may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## Breaching Shotgun

- f. **Description, Quantity, Capabilities, and Purchase Cost:**  
Remington 870 12 Gauge Pump Shotgun. Qty: 4. Total Cost: \$1600.00. The shotgun has a tactical shortened barrel with a stand-off port to vent gasses and debris away from the operator of the firearm during firing. The breaching shotgun and frangible

rounds are used to expeditiously defeat deadbolts, locks, and hinges of doors. The frangible round is designed to transfer its energy into the lock and/or door frame and disintegrate upon impact rather than penetrate further.

#### Current Breaching Round Inventory

- RoyalArms TESAR-2 425 Grain Copper Frangible Breaching Round. Qty: 0. Planned purchase in 2022 of 500 rounds. Estimated cost of \$1500.00 - \$2000.00.

**g. Purpose:**

To rapidly open secured or barricaded doors in the most efficient and safest way during high-risk incidents, when manual tools such as a pry-bar or handheld ram would be less effective or non-effective.

**h. Authorized Use:**

CPD SWAT officers who have been trained in their use. CPD SWAT officers undergo an estimated 120 hours of training per year where such breaching capabilities are incorporated and SWAT officers that are POST-Certified Breaching Instructors provide a minimum of 10 hours of breaching training to the team. Situations in which deployments would be authorized are outlined in CPD Policy 45- SWAT and Negotiations Management and would include high risk incidents where the use of the device is required in order to expeditiously gain access to a fortified location.

**i. Expected Lifespan:**

Estimated to be 20 years, however dependent upon operational usage and wear.

**j. Fiscal Impact:**

Estimated to be \$0.00 - \$2000.00 per year for breaching round inventory and \$500.00 annually for the shotguns. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of breaching rounds and/or breaching shotgun may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## **7. Carbines**

**a. Description, Quantity, Capabilities, and Purchase Cost:**

M4-style AR-15 shoulder-fire rifle chambered in .223 Remington (5.56 NATO) equipped with a non-magnified optic, sound suppressor, flashlight, modular handguard and adjustable sling. Qty: 135. Total Cost per unit is \$2000.00. Manufacturers include Colt, Bushmaster, BCM, LWRC International, and Noveske.

Ammunition:

- Training: Winchester 55gr (80,000 rounds)
- Duty: Hornady TAP 75gr BTHP (30,000 rounds)

**b. Purpose:**

The carbine rifle is used by trained/certified officers during situations where more precision is needed, especially at distance and beyond the capabilities of a handgun, and/or when the need to defeat soft body armor is required.

**c. Authorized Use:**

Officers deploying a carbine rifle must have received California POST-certified training as set forth in the California Penal Code, and must meet CPD qualification

requirements which includes a yearly 4-hour recertification course and at minimum yearly qualification with the rifle. The use of this equipment is also determined by CPD Policy 300- Use of Force and CPD Policy 40- Discharge of Firearms by Police Officers. Situations that may warrant the deployment of a shoulder-fire rifle include but are not limited to situations where an officer reasonably anticipates an armed encounter, when an officer reasonably believes that a suspect may be wearing body armor and/or a situation that requires more accurate and effective long range fire.

c. **Expected Lifespan:**

Estimated to be 20 years, however dependent upon operational usage and wear.

d. **Fiscal Impact:**

Estimated annual maintenance cost of \$0.00 - \$2500.00 for the rifles. The estimated cost of ammunition is \$0.36 per training round and \$0.67 for duty round. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of ammunition and/or carbine rifles may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## Long Rifles

e. **Description, Quantity, Capabilities, and Purchase Cost:**

Lewis Machine and Tool (LMT) LM308MWS semi-automatic, chambered in .308 Winchester (7.62x51mm NATO) equipped with a precision magnified optic, sound suppressor, and bipod. Qty: 5. Cost per unit \$4000.00.

Accuracy International, model AXLE, chambered in .308 with suppressor. Qty: 0. Planned purchase of 5 long rifles in 2022. Estimated cost per unit is \$7500.00.

Accuracy International, model AXMC, chambered in .338 Lapua magnum and sound suppressor. Qty: 0. Planned purchase of 1 long rifle in 2022. Estimated total cost is \$9000.00.

**Ammunition:**

- .308 Duty and Training: Hornady TAP 175gr BTHP (8,000 rounds)
- .338 Lapua – Ruag brand 250 gr HPBT. Department plans to purchase 2000 rounds in 2022.

f. **Purpose:**

The long rifle is used by CPD SWAT snipers who have received extensive marksmanship training to resolve high risk situations where more precision is needed, especially at great distance, than a carbine rifle or handgun may provide, and/or when the suspect is likely to be wearing body armor. CPD SWAT sniper training includes a 40 hour basic long rifle/observer course as well as other advanced courses in addition to the estimated 120 hours of yearly training CPD SWAT officers undergo.

g. **Authorized Use:**

Used exclusively by CPD SWAT Snipers. CPD SWAT Officers deploying a long rifle must have received California POST-certified sniper / observer training and must meet CPD SWAT qualification requirements which includes at minimum qualification 3 times per year. CPD SWAT snipers use the standardized American Sniper Association qualification standards. An example of where a long rifle would be used would be in a hostage rescue situation to provide the ability to incapacitate the suspect from a safe distance with precision without harming the



hostage. CPD SWAT snipers also operate as long range observers in tactical situations. The use of this rifle equipment is also determined by CPD Policy 300- Use of Force and CPD Policy 40- Discharge of Firearms by Police Officers, and CPD Policy 45- SWAT and Negotiations Management.

**h. Expected Lifespan:**

Estimated to be 20 years for the LMT and Accuracy International, however dependent upon operational usage and wear.

**i. Fiscal Impact:**

Estimated annual maintenance costs for the long rifles is \$0.00 - \$1000.00. The cost of ammunition is estimated to be \$1.05 - \$1.50 per round. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of ammunition and/or long rifles may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## **Pistol Caliber Carbine**

**j. Description, Quantity, Capabilities, and Purchase Cost:**

Heckler and Koch MP5 SMG chambered in 9mm equipped with a non-magnified optic, sling, and flashlight. Qty: 16. Cost per unit \$2000.00.

Ammunition:

- Training: 9mm 124gr FMJ (Winchester, Federal, Hornady). 8,000 rounds designated for the MP5.
- Duty: 9mm Federal 124gr +P HST. 8,000 rounds designated for the MP5.

**k. Purpose:**

The pistol caliber carbine is used by trained/certified officers in instances where more precision is needed, especially at distance, than a handgun may provide, but where a carbine rifle would be too large and unwieldy, such as inside a confined space (vehicle or small room).

**l. Authorized Use:**

Officers deploying a pistol caliber carbine must have received California POST-certified training as set forth in the California Penal Code, and must meet CPD qualification requirements which includes a yearly 4-hour recertification course and at minimum yearly qualification with the firearm. The use of this equipment is also determined by CPD Policy 300- Use of Force and CPD Policy 40- Discharge of Firearms by Police Officers. Situations that may warrant the deployment of a MP5 SMG include but are not limited to situations where an officer reasonably anticipates an armed encounter, when an officer is faced with a situation that requires more accurate and effective long range fire and/or where an officer reasonably expects the need to meet or exceed a suspect's firepower.

**m. Expected Lifespan:**

Estimated to be 20 years, however dependent upon operational usage and wear.

**n. Fiscal Impact:**

Estimated annual maintenance cost for the MP5 SMG is \$0.00 - \$1000.00. The estimated cost of ammunition is \$0.23 per training round and \$0.31 per duty round. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of ammunition may be required during the year. Any such purchase

would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## 8. Noise Flash Diversionary Devices

a. **Description, Quantity, Capabilities, and Purchase Cost:**

Noise Flash Diversionary Devices (NFDD). Qty: 100. Total Cost. \$4500.00. A device that creates a bright flash and loud sound to temporarily divert the attention of a subject. NFDD are used to distract and temporarily disorient suspects during high-risk incidents by overwhelming their senses of vision and hearing. The distraction allows officers to seize the moment in an effort to take control of a situation without further exposing officers and/or community members to injury or death. CPD uses the CTS 7290M and CTS 7290 NFDD.

b. **Purpose:**

To produce atmospheric over-pressure and brilliant white light and, as a result, cause short-term (6 - 8 seconds) physiological/psychological sensory deprivation to give officers a tactical advantage during the resolution of a high-risk incident.

c. **Authorized Use:**

Used exclusively by CPD SWAT officers in accordance with the SWAT procedural manual. Situations include but are not limited to hostage and barricaded person situations and high risk incidents where the use of a NFDD would enhance officer and community safety in order to distract a violent or otherwise dangerous person to aid in the apprehension of the suspect.

d. **Expected Lifespan:**

Estimated to be 5 years.

e. **Fiscal Impact:**

No annual maintenance cost for NFDD. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of NFDD may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## Chemical Agents

f. **Description, Quantity, Capabilities, and Purchase Cost:**

- DefTech 1016- Pocket Tactical CS – Qty: 42. \$19.40 per unit. The Pocket Tactical CS is small and lightweight. Emits CS for approximately 20-40 seconds. Used to provide a quick CS smoke screen as cover.
- DefTech 1017- Pocket Tactical Saf-Smoke – Qty: 39. \$17.95 per unit. The Pocket Tactical Saf-Smoke is small and lightweight. Emits smoke for approximately 20-40 seconds. Used to provide a quick smoke screen as cover.
- DefTech 1026- Pocket Chaser CS – Qty: 30. \$37.05 per unit. The Triple-Chaser CS consists of three separate canisters pressed together with separating charges between each. When deployed, the canisters separate and land approximately 20 feet apart allowing increased area coverage in a short period of time. This is used to provide a large CS Smoke screen in an outdoor setting. Emits CS for approximately 30-40 seconds.

- DefTech 1032- Flameless Tri-Chamber CS - Qty: 12. \$31.95 per unit. The design of the Tri-Chamber Flameless CS allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The CS is designed primarily for indoor tactical situations to detect and/or dislodge a barricaded subject. It will deliver approximately .70 oz. of agent during its 20-25 seconds burn time.
- DefTech 1072- Spede Heat CS- Qty: 29. \$27.80 per unit. The Spede-Heat™ CS is a high volume device with continuous burn and 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. It is designed to be used outdoors.
- DefTech 1092- Han-Ball CS – Qty: 10. \$29.80 per unit. Designed specifically for outdoor use in crowd management situations, the Han-Ball is a high volume, fast burning device that expels its payload in 10 - 25 seconds. It is excellent for the rapid delivery of chemical agent or smoke in quickly changing tactical situations. Due to the quick discharge time, throwback potential is greatly reduced.
- DefTech 1262- Ferrett 40mm CS Barricade Penetrating- Qty: 11. \$19.65 per unit. The Ferret 40mm Round is non-burning and suitable for indoor use. 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 submission of potentially violent or dangerous subjects.
- DefTech 2262- Ferrett 40mm CS- Qty: 125. \$19.65 per unit. The Ferret 40mm Round is non-burning and suitable for indoor use. 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 submission of potentially violent or dangerous subjects.
- CTS 5230B- CS Baffled Grenade- Qty: 22. \$45.20 per unit. Pyrotechnic grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.

**g. Purpose:**

Chemical agents are a minimal force option to generate compliance and aid in the de-escalation of high-risk incidents. Depending upon the delivery method, this equipment can be introduced in close proximity or from a distance. Based on the unique characteristics of each situation, trained/authorized officers will select the munition and deployment method which will be most effective and pose the least risk to all involved with the highest chance of success. Chemical agents can be used to saturate suspects, violent crowds, and/or areas of varied size, indoor and outdoor.

h. **Authorized Use:**

Used exclusively by CPD SWAT officers who have received specialized California POST-certified training in the use of chemical agents and as outlined within CPD Policy 45- SWAT and Negotiations Management and CPD Policy 39- Authorized Duty Firearms, Off Duty Firearms, and Accessory Equipment. Chemical agents can dislodge a suspect from a stronghold location with the least possible danger to community members, officers and the suspect. Chemical agents can also be used to prevent an armed suspect from accurately firing at community members and officers, and during limited situations of civil unrest. CPD SWAT officers that have been certified as Chemical Agent Instructors after attending a 40 hour POST/CATO Chemical Agent Instructor Course give a minimum of 10 hours of annual training to CPD SWAT officers.

i. **Expected Lifespan:**

No shelf life limitations provided by the manufacturer. Dependent upon operational usage and wear.

j. **Fiscal Impact:**

No annual maintenance cost for chemical agents. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of chemical agents may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

### 13. Gas Launcher

a. **Description, Quantity, Capabilities, and Purchase Cost:**

CTS LC5 5 Series Launching Cup. Qty: 2. Cost \$264.10 per unit. The launching cup attaches to any 12 gauge pump-action shotgun and allows the launch of any CTS 5200 series gas grenade.

CTS 2600 12 Gauge Launching Cartridge. Qty: 25. Cost \$4.51 per unit. The 12 gauge launching cartridge is to be used with the 52 series launching cup.

b. **Purpose:**

To launch 5200 series gas grenades from a distance allowing gas to be deployed during a high-risk incident, such as but not limited to a barricaded suspect situation or active shooter incident. This is a minimal force option to generate compliance and aid in the de-escalation of high-risk incidents.

c. **Authorized Use:**

Used exclusively by CPD SWAT officers who have received specialized California POST-certified training in the deployment of chemical agents and as outlined within CPD Policy 45- SWAT and Negotiations Management and CPD Policy 39- Authorized Duty Firearms, Off Duty Firearms, and Accessory Equipment.

d. **Expected Lifespan:**

Estimated to be 15 - 20 years, however dependent upon operational usage and wear.

e. **Fiscal Impact:**

No annual maintenance cost for the gas launcher. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of gas launchers may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## 14. PepperBall Launcher and Projectiles

### a. Description, Quantity, Capabilities, and Purchase Cost:

PepperBall Live and LiveX contains pelargonic acid vanillyl amide (PAVA), also referred to as Nonivamide, a capsaicinoid found in chili peppers that creates an unpleasant burning sensation.

- PepperBall VKS Launcher. Qty: 8. Cost \$1300.00 per unit. The Variable Kinetic System (VKS) is a compressed-air powered launcher designed to fire non-lethal PepperBall projectiles. Operates from a HPA tank air source and must be regularly refilled prior to use.
- PepperBall Inert Projectile – Qty: 500. Cost \$0.80 per round. Containing a harmless, scented powder, this projectile is best suited for training, qualifications, and direct impact when chemical exposure is not desired. Maximum effective range is 60 feet.
- PepperBall Live Projectile – Qty: 500. Cost \$2.58 per round. The basic PepperBall projectile contains 2% PAVA pepper powder, and is excellent for direct impact and area saturation, especially in confined, interior spaces. Maximum effective range is 60 feet.
- PepperBall Glass Break – Qty: 20. Cost \$2.45 per round. A solid polymer projectile used for breaking out residential windows and side-glass of automobiles. Not for use on humans or animals. Maximum effective range 60 feet.
- PepperBall VXR Inert – Qty: 20. Cost \$3.10 per round. Containing a harmless, scented powder, this projectile is best suited for training, qualifications, and direct impact when chemical exposure is not desired. Maximum effective range is 150 feet.
- PepperBall VXR LiveX – Qty: 200 – Cost \$4 per round. A more concentrated formula, containing approximately 10x the PAVA pepper powder of the LIVE projectile. Excellent for direct impact or area saturation. Maximum effective range is 150 feet.
- PepperBall PPC Launcher. Planned acquisition in 2022. Qty: 9. Cost of \$800.00 per unit totaling \$7200.00. The PPC is a compressed-air powered launcher designed to fire non-lethal PepperBall projectiles. Operates from a CO2 cartridge which allows it to be stored in the back of a patrol vehicle for rapid deployment.

### b. Purpose:

To provide officers with a non-lethal force option to engage non-compliant or actively aggressive persons or animals at a distance. It may be used as a kinetic impact weapon, with or without, PAVA pepper powder projectiles, or to dispense PAVA without impacting an individual or animal. Use of this non-lethal force option would be in compliance with CPD Policy 300- Use of Force. The department is currently undergoing training with this new equipment item.

### c. Authorized Use:

CPD officers who have been trained by the manufacturer to be Department Instructors will lead CPD officers through the 4 hour training and certification process prior to use.

Any officer who has been trained and approved on the equipment may use the equipment when such use is supported by CPD Policy 300- Use of Force. Training on the equipment will be in accordance with CPD's less-lethal yearly training calendar.

**d. Expected Lifespan:**

Estimated to be 15 years for the launchers, 5 years for training projectiles and an estimated 3 years for non-training projectiles.

**e. Fiscal Impact:**

No anticipated annual maintenance cost for the launchers. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of launchers and projectiles may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## 15. Kinetic Impact Launchers

**a. Description, Quantity, Capabilities, and Purchase Cost:**

- Sage Ordnance Deuce 37mm launcher (two round capacity). Qty: 13. Cost per unit \$800.00.
- Sage Ordnance BML-37 37mm multi launcher (six round capacity). Qty: 8. Cost per unit \$1500.00.
- DefTech 1425 40mm launcher (one round capacity) with optic and flashlight attached. Qty: 2. Cost per unit \$1500.00. CPD plans to purchase 14 additional launchers in 2022 with the estimated total cost of \$21,000.00.
- DefTech 1440 40mm launcher (four round capacity) with optic and flashlight attached. Qty: 0. CPD plans to purchase 4 units in 2022 with the estimated total cost of \$8800.00.
- Penn Arms P540-1 40mm launcher (six round capacity) with optic and light attached. Qty: 1. Cost per unit \$2000.00
- Remington 870 12 gauge shotgun equipped with orange stock. Qty: 5. Used to launch DefTech 3027 Drag Stabilized Less-Lethal Bean Bag rounds. Cost per unit \$300.00.

**b. Purpose:**

To launch 40mm direct impact less lethal munitions by CPD officers or to launch 40mm chemical agent rounds by certified CPD SWAT officers in compliance with CPD Policy 300- Use of Force, and/or CPD Policy 45- SWAT and Negotiations Management, and/or CPD Policy 39- Authorized Duty Firearms, Off Duty Firearms, and Accessory Equipment.

**c. Authorized Use:**

Officers who are properly trained and certified through CPD in-service training in compliance with California POST training standards (2 hours every 2 years), may use the 37mm or 40mm launcher to launch kinetic impact less lethal projectiles as a force option in accordance with CPD Policy 300- Use of force. Situations in which this equipment may be used include but are not limited to temporarily incapacitate or discourage an aggressive, armed, and/or non-compliant individual or animal at a

distance safer to the officer which provides the opportunity to de-escalate the situation and potentially avoid the use of lethal force.

CPD SWAT officers may use the launchers to launch either kinetic impact rounds or, if trained, launch chemical agents in accordance with CPD Policy 300- Use of Force, and/or CPD Policy 45- SWAT and Negotiations Management, and/or CPD Policy 39- Authorized Duty Firearms, Off Duty Firearms, and Accessory Equipment.

**d. Expected Lifespan:**

Estimated to be 20 years for the DefTech launchers and unlimited for the Remington 870 Less Lethal impact weapons, both dependent upon operational usage and wear.

**e. Fiscal Impact:**

No known recurring cost for launchers and an estimated \$0.00 - \$500.00 annual maintenance cost for the Remington 870 less lethal impact weapons. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of launchers and projectiles may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

## **16. Kinetic Impact Munitions**

**a. Description, Quantity, Capabilities, and Purchase Cost:**

Less-lethal rubber and sponge batons are capable of assisting officers with overcoming resistance from violent persons and aiding in the de-escalation of high risk situations.

- 37mm Sage Ordinance K01 Direct Impact Rubber Baton. Qty: 250. Cost per unit \$21.00.
- 40mm CTS 4557 Direct Impact Spin Stabilized Sponge Baton. Qty: 130. Cost per unit \$25.00.
- 40mm DefTech 3625 Direct Impact Spin Stabilized Sponge Baton. Qty: 8. Cost per unit \$25.00. In 2022, CPD plans to purchase an additional 250 sponge baton munitions with the estimated cost of \$6250.00.
- 12 gauge DefTech 3027 Drag Stabilized Less-Lethal Bean Bag rounds. Qty: 50. Cost per unit \$5.

**b. Purpose:**

CPD is committed to reducing the potential for violent confrontations. Kinetic energy projectiles, when used properly, are less likely to result in death or serious physical injury and can be used in an attempt to de-escalate a potentially deadly situation. Kinetic impact munitions may be used to compel an individual to cease his/her actions when such munitions present a reasonable option.

**c. Authorized Use:**

Officers who are properly trained may use the 37mm or 40mm launcher to launch kinetic impact less lethal projectiles as a use of force option and in accordance with CPD Policy 300- Use of Force.

**d. Expected Lifespan:**

No shelf life limitations provided by the manufacturer. Dependent upon operational usage and wear.

**e. Fiscal Impact:**

No known maintenance cost for the munitions. Due to operational readiness and capabilities in support of first responder missions the periodic purchase of launchers and projectiles may be required during the year. Any such purchase would be through existing CPD budget and/or grant/donation and in compliance with established City Purchasing rules.

**17. Long Range Acoustic Device**

**a. Description, Quantity, Capabilities, and Purchase Cost:**

Genasys LRAD-100X. Qty: 1. Cost per unit \$15,000. The LRAD 100X is a self-contained, hand portable loud hailer that is 20-30 decibels (dB) louder than most megaphones. It provides clear communication at up to 1000 meters, 136dB maximum continuous output at 1 meter, and the ability to overcome 88 dB of background noise at 250 meters.

**b. Purpose:**

The CPD Crisis Negotiations Team uses the LRAD to establish communication with individuals who may be barricaded or are otherwise unable to be reached with a conventional public address system. This equipment is also used during high-risk situations such as search warrants where communications and notifications to the occupants of a structure are paramount.

**c. Authorized Use:**

CPD Crisis Negotiations team members take part in monthly department training ranging between an estimated 60-120 hours per calendar year. The use of the LRAD is reserved for these team members and training on the use of the LRAD is led and managed internally by Team Supervisors. The use of the LRAD is approved in training and during high-risk situations where the use of the LRAD for communications and notifications is appropriate as determined by the high-risk incident being managed by the Tactical/Incident Commander and normally attached to SWAT Missions as outlined in CPD Policy 45-SWAT and Negotiations Management.

**d. Expected Lifespan:**

Estimated to be 20 years, however dependent upon operational usage and wear.

**e. Fiscal Impact:**

There are no anticipated reoccurring costs associated with this equipment item.

(END OF REPORT)