

1. Robots: A remotely controlled unmanned machine that operates on the ground and is utilized to enhance the safety of the community and officers.

a) Description, quantity, capabilities, and purchase cost:

- i. Packbot 510**, cost: \$0 (donated), quantity not to exceed: 1.

The Packbot 510 is a battery-powered, remote-operated device. They are equipped with four color cameras with zoom and illumination. PackBot 510 is a man-transportable robot that easily climbs stairs and navigates narrow passages, relaying real-time video, audio, and sensor data while the operator stays at a safer, standoff distance. The PackBot 510 manipulator lifts up to 44 lb. (20 kg). PackBot 510 is deployable by one person.

- ii. Robotex Avatar II**, cost: approximately \$25,000, quantity not to exceed: 2.

The Avatar II is a battery-powered, remote-operated device. It is equipped with a pan-tilt-zoom camera, two-way audio, and video recording capability. Avatar II is a remote-operated robot that easily climbs stairs and navigates narrow passages, relaying real-time video, audio, and sensor data while the operator stays at a safer, standoff distance.

- iii. Recon Scout Throwbot XT**, cost: approximately \$17,015, quantity not to exceed: 2.

The Throwbot XT is a throwable micro-robot platform that enables operators to obtain instantaneous video and audio reconnaissance within indoor or outdoor environments. This micro-robot is designed to be able to crawl over a variety of terrain, clearing obstacles. The robot can be thrown into hazardous situations in order to allow operators to make informed decisions when seconds count quickly.

- iv. Remington R1 Eyeballs**, cost: approximately \$15,000, quantity not to exceed: 20.

Remington's Eye Ball R1 is a compact wireless 360° mobile display system. It can be used in tactical operations where law enforcement personnel must see the situation before entering a building, floor, or room. The Eye Ball R1 is tough enough to allow officers to roll, toss, lower, or throw it as needed. It transmits streaming video and audio to a Personal Display Unit (PDU) up to two hundred yards away.

- v. Transcend Robotics Vantage robot**, cost: approximately \$33,500, quantity not to exceed: 5.

The Transcends Vantage robot is the only automatic stair and obstacle climbing robot compatible with our safe indoor Hot Gas Delivery System.

- vi. Transcend Robotics Mini Vantage**, cost: approximately \$15,000, quantity not to exceed: 5.

Mini Vantage Rapid and affordable reconnaissance. The Mini Vantage Robot delivers the most capabilities for the price, including 8-inch automatic obstacle climbing, 2-hour runtime with swappable batteries, and up to 250ft communications NLOS.

- vii. SIGYN MK1 micro-Robot**, cost: approximately \$ 9,771.00, quantity not to exceed: 5.

SIGYN from **SKY-HERO** is a 4-wheeled microrobot with the ability to operate almost silently, in complete darkness, and in a GPS, Wi-Fi, and cellular-denied environment. Featuring multiple IR LEDs and dual day-night cameras with a 150-degree view, SIGYN provides a clear view in virtually any lighting conditions.

This equipment is for (potential) use during high-risk incidents such as, but not limited to, bomb disposal, surveillance, reconnaissance, CBRN detection, HazMat handling operations, a high-risk warrant service, barricaded subject, and hostage negotiation/rescue. Knowledge of a subject's location is very important before entering a structure, particularly in a tactically compromised and dangerous situation. The robot can provide that without placing anyone at risk. Cameras can also help determine if a subject is armed and if other subjects inside need assistance.

b) Purpose:

To gain visual/audio data remotely, deliver phones, open doors, disrupt packages, and clear buildings.

c) Authorized Use:

Only assigned operators who have completed the required training shall be permitted to operate the robots. The Incident Commander establishes use.

d) Expected Lifespan:

Approximately 10-15 years

e) Fiscal Impact:

Annual maintenance and battery replacement costs are approximately \$5,000.

f) Legal and Procedural Rules

It is the policy of the WPD to utilize a robot only for official law enforcement purposes and in a manner that respects the privacy of our community, pursuant to State and Federal law. All other applicable Whittier Police Department (WPD) policies remain in effect.

2. Unmanned Aircraft System (UAS): An unmanned aircraft, along with the associated equipment necessary to control it remotely.

a) Description, the purchase cost of the current UAS, quantity, and capabilities:

i. **Loki MK2 Multi-Drone, cost: approximately \$9,750, quantity not to exceed: 20.**

UAS, which weighs approx. 2 pounds and is used for close-quarter indoor tactical scouting missions, LOKI Mk2, features a highly sensitive Day-Night + IR sensor camera, giving it the ability to fly and see in complete darkness. (Added 08/08/22)

ii. **Autel EVO II Dual 640R, cost: approximately \$9,998, quantity not to exceed: 10.**

UAS that weighs approximately 2.62 lbs. pounds, 40 min flight time, and features a FLIR Boson 640 thermal sensor and an 8K/20MP visual sensor. These two sensors are housed in one 3-axis gimbal-stabilized camera unit. Maximum flight time on the EVO II Dual is 40 minutes in forward flight, while you can expect about 35 minutes in hover flight.

- iii. **DJI MAVIC 2 ENTERPRISE ADVANCE**, cost: \$5,500 each, quantity not to exceed: 20.

UAS has a color and inferred camera as well as an audible speaker and light. Capable of video recording and weighs 899 grams, approx.—thirty minutes of flight time.

- iv. **DJI Matrices M30T**, cost: \$5,500 each, quantity not to exceed: 20.

UAS weighs approximately 13 pounds and is used for exterior tactical scouting missions, search and rescue, crime scene documentation, disaster response, etc. The M30T is an all-weather drone with a day-night+ laser range finder and a thermal camera, allowing it to fly and see in complete darkness.

- v. **Brinc Lemur 2 Aircraft (Drone) and accessories (batteries, controller, etc.)** cost: \$22,000 each, quantity not to exceed: 10.

The LEMUR 2 has been proven in real-world callouts. It is a highly reliable, tactical tool that can help to de-escalate dangerous situations and save lives. It is night vision capable with a 31-minute flight time with 2-way communication deployable in 45 seconds.

- vi. **Skydio X2 color/Thermal (Drone)**, cost: \$18,700 each, quantity not to exceed: 10.

Skydio X2E Color/Thermal is the ultimate UAS solution for aerial situational awareness and search and rescue missions. X2E is powered by Skydio Autonomy Enterprise, an AI-driven autonomous flight engine that enables unparalleled 360° obstacle avoidance, autonomous tracking, GPS-denied navigation, and complete workflow automation. X2E is designed with a ruggedized, foldable airframe, GPS-based night flight, strobing lights in visible and IR wavelengths, and a dual sensor payload with a 12MP color camera and FLIR® 320x256 thermal sensor. Built for enterprises and first responders, Skydio X2E is designed and assembled in the USA and is compliant with the National Defense Authorization Act (NDAA).

- vii. **DJI Avata 2 (Drone)** costs: \$1,700 each, and quantities may not exceed 20.

The "DJI Avata 2" refers to a specific model of first-person view (FPV) drone manufactured by DJI. The Avata 2 is designed for first-person view flying, allowing the pilot to experience the flight from a virtual pilot's perspective through goggles and a remote controller. It is designed to provide an immersive flight experience, using features like the DJI Goggles 3 and RC Motion 3. The Avata 2 includes features like Turtle Mode (which allows the drone to automatically flip back into takeoff position if it lands upside down) and One-Tap Sky VFX (which allows for quick and easy creation of cinematic sky effects). The DJI Avata 2 is a powerful and versatile FPV drone that combines advanced technology with a user-friendly

design, making it suitable for both beginners and experienced pilots looking for immersive flight and content creation capabilities.

b) Purpose:

To be deployed when its view would assist officers or incident commanders with the following situations, which include but are not limited to:

- Major collision investigations.
- Search for missing persons.
- Natural disaster management.
- Crime scene photography.
- SWAT, tactical, or other public safety and life preservation missions.
- In response to specific requests from local, state, or federal fire authorities for fire response and/or prevention.

c) Authorized Use:

Only assigned operators who have completed the required training shall be permitted to operate any UAS during approved missions. All other applicable WPD policies remain in effect, including, but not limited to, WPD Policy 615 – Unmanned Aerial System Operations.

d) Expected Lifespan:

All UAS equipment, approximately 3-5 years.

e) Fiscal Impact:

The annual maintenance and battery replacement costs are approximately \$15,000.

f) Training

All Department UAS operators are licensed by the Federal Aviation Administration for UAS operations. In addition, each operator must attend department training and ongoing quarterly training.

g) Legal and Procedural Rules

Use is established under WPD Policy 615, FAA Regulation 14 CFR Part 107, and the City of Whittier UAS policy. It is the policy of the WPD to utilize UAS only for official law enforcement purposes and in a manner that respects the privacy of our community, pursuant to State and Federal law.

3. Armored Personnel Carrier, a vehicle with entry apparatus attached: Commercially produced wheeled armored personnel vehicle utilized for law enforcement purposes

a) Description, quantity, capabilities, and purchase cost:

- i. **2015 Armored Group Vehicle The BATT®-X (Ballistic Armored Tactical Transport®)**, cost: approximately \$309,000, quantity not to exceed: 3.

The BATT is an armored vehicle that seats 10-12 personnel with an open floor plan to rescue down personnel. The BATT has increased ground clearance and a robust suspension, allowing for an emergency response to almost any situation. It can stop various projectiles, which provides greater safety to citizens and officers beyond the protection level of shield and personal body armor.

- ii. **1976 ARV armored vehicle**, cost: \$1, quantity not to exceed: 1.

The ARV is an armored vehicle that seats 5-8 personnel with an open floor plan to rescue down personnel. The ARV has increased ground clearance and a robust suspension, allowing for an emergency response to almost any situation. It can stop various projectiles, which provides greater safety to citizens and officers beyond the protection level of shield and personal body armor.

b) Purpose:

To be used in response to critical incidents to enhance officer and community safety, improve scene containment and stabilization, and assist in resolving critical incidents.

c) Authorized Use:

The use of armored vehicles shall be authorized by a watch commander or SWAT commander based on the specific circumstances of a given critical incident. Armored vehicles shall be used only by officers trained in their deployment and in a manner consistent with Department policy and training.

d) Expected Lifespan:

Approximately 15 years

e) Fiscal Impact:

The annual maintenance cost is approximately \$10,000.

f) Training:

All drivers/operators shall attend formalized instruction and be trained in vehicle operations and practical driving instruction.

g) Legal and Procedural Rules:

Use is established under WPD Policy 705. It is the policy of the Department to utilize armored vehicles only for official law enforcement purposes and pursuant to State and Federal law.

4. Mobile Incident Command Vehicle (MIC): A vehicle used as a mobile office to provide a centralized shelter, access to Department computer systems, and restroom facilities during extended events.

a) **Description, quantity, capabilities, and purchase cost:**

- i. **2007 Eagle Workhorse (custom built)** vehicle, cost: approximately \$250,000, quantity not to exceed: 1.

The MIC can also be utilized for SWAT/CNT and other critical incidents, large, preplanned events, searching for missing persons, natural disasters, and community events.

b) **Purpose:**

To be used based on the specific circumstances of a given critical incident, large event, natural disaster, or community event that is taking place.

c) **Authorized Use:**

Only officers trained in the deployment and operations of the MIC in a manner consistent with Department policy and training are authorized to operate it. Situations in which the MIC is authorized for use would include but not be limited to critical incidents, emergencies, and natural disasters.

d) **Expected Lifespan:**

The MIC has approximately a 20-year lifespan on the chassis and vehicle structure. Upgrades are needed every three years to maintain IT systems.

e) **Fiscal Impact:**

The annual maintenance cost is approximately \$11,000.

f) **Training:**

The driver/operator shall receive training in the safe handling of the vehicle on a closed training course. Once the operator has shown competence in vehicle handling, the driver/operator will drive the vehicle with an experienced driver throughout the city. Driver/operators shall also undergo California Department of Motor Vehicles commercial vehicle testing.

g) **Legal and Procedural Rules**

It is the department's policy to use the MIC only for official law enforcement purposes and in accordance with California State law regarding the operation of motor vehicles.

5. 40mm Launchers and Rounds: 40mm Launchers are utilized by department personnel as a less-lethal tool to launch impact rounds.

a) **Description, quantity, capabilities, and purchase cost**

- i. **DEFENSE TECHNOLOGY, 40MM SINGLE SHOT LAUNCHER, LMT**, cost: approximately \$1,000, quantity not to exceed: 120.

The 40mm Single Launcher is a tactical single-shot launcher. 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 and is only authorized to be used by trained personnel.

- ii. **DEFENSE TECHNOLOGY, 40MM TACTICAL MULTI-SHOT LAUNCHER**, cost: approximately \$1,975, quantity not to exceed: 20.

The 40mm Tactical Multi-Shot Launcher is low-profile and lightweight, providing multi-shot capability in an easy-to-carry launcher. It features a unique direct-drive system to advance the magazine cylinder. It will launch a 40mm less-lethal round up to 131 feet and is only authorized to be used by trained personnel.

- iii. **DEFENSE TECHNOLOGY, 40MM EXACT IMPACT SPONGE**, #6325, cost: approximately \$18, quantity not to exceed: 5,000.

A less lethal 40mm lightweight plastic and foam projectile fired from a single or multi-round purpose-built 40mm grenade launcher with a rifled barrel at 325 FPS. The 30-gram foam projectile delivers 120 ft/lbs. of energy on impact. The 40mm Exact Impact Sponge Round provides accurate and effective performance when fired from the approved distance of not less than five (5) feet and as far as 131 feet from the target.

- iv. **DEFENSE TECHNOLOGY, 40MM DIRECT IMPACT OC**, #6320, cost: approximately \$30, quantity not to exceed: 5,000.

A less lethal 40mm lightweight plastic and crushable foam projectile fired from a single or multi-round purpose-built 40mm grenade launcher with a rifled barrel at 295 FPS. The 39-gram crushable foam projectile delivers 120 ft/lbs. of energy upon impact in addition to the dispersion of 5 grams of OC irritant. The 40mm Direct Impact OC Round provides accurate and effective performance when fired from the approved distance of not less than five (5) feet and as far as 120 feet from the target.

- v. **DEFENSE TECHNOLOGY, FERRETT 40MM LIQUID BARRICADE PENETRATOR ROUND**, #2262, cost: approximately \$23, quantity not to exceed: 100.

A less lethal 40mm round is used to penetrate barriers, such as windows, hollow core doors, wallboards, and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of a structure or vehicle. The 40mm Ferret is primarily used to dislodge barricaded subjects from confined areas in a tactical deployment situation. Its purpose is to minimize the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects.

- vi. **DEFENSE TECHNOLOGY, SPEDE-HEAT 40MM LONG-RANGE, CS**, #6182, cost: approximately \$30, quantity not to exceed: 100.

The SPEDE-HEAT CS Long-Range Munitions delivers one chemical canister of CS agent from a 40mm launcher downrange up to 150 yards. The Spede-Heat is a pyrotechnic round designed specifically for outdoor use in crowd control situations, with a high-volume continuous burn that expels its payload in approximately 20-40 seconds from a single

source. The Spede-Heat family may be used to conceal tactical movement or to route a crowd.

- vii. DEFENSE TECHNOLOGY, SPEDE-HEAT 40MM SHORT-RANGE ROUND, CS,** cost: approximately \$27, quantity not to exceed: 100.

The Spede-Heat Saf-Short Range Munitions is designed to deliver one chemical canister of CS™ payload downrange up to 100 yards. The Spede-Heat is a pyrotechnic round designed specifically for outdoor use in crowd control situations with a high-volume continuous burn that expels its payload in approximately 20-40 seconds from a single source. The SpedeHeat 40mm is designed for outdoor and has a maximum effective range of 100 yards.

- viii. DEFENSE TECHNOLOGY, 40MM MARKING ROUND, #6326,** cost: approximately \$28, quantity not to exceed: 100.

The 40mm Marking Round is widely used as a crowd management tool for the immediate and close deployment marker. It can also be employed as a pain compliance round at close ranges for indoor or outdoor operations. It has a maximum effective range of 30 feet /9.1 meters.

- ix. DEFENSE TECHNOLOGY, 40MM SKAT SHELL, #6172,** cost: approximately \$28, quantity not to exceed: 100.

The Skat Shell 40mm CS multiple chemical projectiles round is designed to deliver multiple CS canisters from a 40mm launcher. It is designed for outdoor use and has fire-producing capability and a maximum effective range of 80-100 yards. The Skat Shell 40mm is designed for outdoor use and has fire-producing capability. It is widely used as a crowd-management tool for the rapid and broad deployment of a chemical agent by a single grenadier. The Skat Shell contains four separate sub-munitions and provides a wide area of coverage.

b) Purpose:

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

c) Authorized Use:

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

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

All other applicable WPD policies remain in effect, including, but not limited to, WPD Policy 300 – Use of Force.

d) Training:

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

e) Expected Lifespan:

- Defense Technology #1425- approximately 25 years.
- Defense Technology #1440- approximately 15 years.
- 40mm ammunition- approximately five years.

e) Fiscal Impact:

- 40mm Launcher: estimated between \$0 and \$23,650 annually.
- 40mm Sponge Round: estimated between \$0 and \$12,000 annually.

f) Legal and Procedural Rules:

Use is established under WPD Policy 308. It is the policy of the WPD to utilize the 40mm only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

6. Less Lethal Shotgun: Less Lethal Shotgun is used to deploy the less-lethal 12-gauge Super-Sock Beanbag Round.

a) Description, quantity, capabilities, and purchase cost

- i. **REMINGTON 870 LESS LETHAL SHOTGUN**, cost: approximately \$946, quantity not to exceed: 150.

The Remington 870 Less Lethal Shotgun is used to deploy the less-lethal 12-gauge Super-Sock Beanbag Round up to a distance of 75 feet. The range of the weapon system helps to maintain space between officers and a suspect, reducing the immediacy of the threat, which is a principle of De-escalation. These specific shotguns are equipped with orange stocks and forend.

- ii. **12-GAUGE SUPER-SOCK BEANBAG ROUND**, cost: approximately \$5, quantity not exceeding 5,000.

A less lethal 2.4-inch 12-gauge shotgun round firing a ballistic fiber bag filled with 40 grams of lead shot at a velocity of 270-290 feet per second (FPS). CTS Super-Sock rounds are discharged from a dedicated 12-gauge shotgun that is distinguishable by an orange stock and forend. This round provides accurate and effective performance when fired from the approved distance of not fewer than five (5) feet. The maximum effective range of this munition is up to 75 feet from the target. The Model 2581 Super-Sock is in its deployed state immediately upon exiting the barrel. It does not require a minimum range to "unfold" or "stabilize." The Super-Sock is an aerodynamic projectile. However, accuracy is relative to the shotgun, barrel length, environmental conditions, and operator. The Super-Sock is very accurate. However, effectiveness depends on many variables, such as distance, clothing, stature, and the point where the projectile impacts.

b) Purpose

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

c) Authorized Use

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

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

d) Lifespan

- Remington 870 Less Lethal Shotgun- approximately 25 years.
- Super Sock Round- No listed expiration date.

e) Fiscal Impact

Annual maintenance is approximately \$50 for each shotgun.

f) Training

All officers are trained in the 12 gauge less-lethal shotgun as a less-lethal option through in-service training. SWAT personnel receive additional training internally when they transfer to the unit. SWAT operators who utilize these munitions have been through and successfully completed a POST-approved gas school and/or trained in-house by POST-certified chemical agent instructors.

g) Legal and Procedural Rules

Use is established under WPD 308. It is the policy of the WPD to utilize the less-lethal shotgun only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

7. Chemical Agent and Smoke Canisters: Canisters that contain chemical agents that are released when deployed.

a) Description, quantity, capabilities, and purchase cost

- i. DEFENSE TECHNOLOGY, SPEDE-HEAT™ CONTINUOUS DISCHARGE CHEMICAL GRENADE, CS, #1072, cost: approximately \$47, quantity not to exceed: 100.**

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

- ii. **DEFENSE TECHNOLOGY, RIOT CONTROL CONTINUOUS DISCHARGE GRENADE, CS, #1082,** cost: approximately \$27, quantity not to exceed: 100.

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

- iii. **DEFENSE TECHNOLOGY, FLAMELESS TRI-CHAMBER CS GRENADE, #1032,** cost approximately \$45, quantity not to exceed: 100.

The design of the Tri-Chamber Flameless CS Grenade allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The grenade is designed primarily for indoor tactical situations to detect and/or dislodge a barricaded subject. This grenade will deliver approximately .70 oz. of agent during its 20-25 seconds burn time. The Tri-Chamber Flameless Grenade 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 Grenade 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 Grenade 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 Grenade is NOT to be launched utilizing a launching cup.

- iv. **DEFENSE TECHNOLOGY, POCKET TACTICAL GRENADE, CS, #1016,** cost: approximately \$39, quantity not to exceed: 100.

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

- v. **DEFENSE TECHNOLOGY, OC VAPOR AEROSOL GRENADE, #1056,** cost: approximately \$49, quantity not to exceed: 200.

The Defense Technology OC Vapor Aerosol Grenade is for law enforcement and corrections used to deliver a high concentration of Oleoresin Capsicum (OC) in a powerful mist. The grenade 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 Grenade is ideal for cell extractions or barricaded situations where the use of pyrotechnic, powder, or liquid devices is not practical or desired.

b) Purpose

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

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

c) Authorized Use

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

d) Training

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

e) Lifespan

Approximately 5 years from the manufacturing date.

f) Fiscal Impact

No annual maintenance.

g) Legal and Procedural Rules

It is the policy of the WPD to utilize chemical agents only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

8. Specialized Firearms and Ammunition: Guns that are fired from shoulder level, having a longer, grooved barrel intended to make bullets spin and thereby have greater accuracy over a long distance.

a) Description, quantity, capabilities, and purchase cost:

- i. **Colt CR6933-EPR complete rifle w/MLOK system**, cost: approximately \$4,200, quantity not to exceed: 250.

The Carbine Rifle is a firearm capable of accurately stopping an armed subject at various distances. The Carbine Rifle is a lightweight, air-cooled, gas-operated, magazine-fed, shoulder-fired weapon designed for semi-automatic and selective fire. The Carbine Rifle does not have an expiration and will need to be serviced or replaced when the rifle fails or breaks. The .223 / 5.56 cartridge is used as a lethal option designed to stop a violent encounter. The projectile is capable of penetrating soft body armor being worn by armed subjects.

- ii. **Colt AR-15/M4**, cost: approximately \$2,400, quantity not to exceed: 250.

The Carbine Rifle is a firearm capable of accurately stopping an armed subject at various distances. The Carbine Rifle is a lightweight, air-cooled, gas-operated, magazine-fed, shoulder-fired weapon designed for semi-automatic and selective fire. The Carbine Rifle does not have an expiration and will need to be serviced or replaced when the rifle fails or breaks. The .223 / 5.56 cartridge is used as a lethal option designed to stop a violent encounter. The projectile is capable of penetrating soft body armor being worn by armed subjects.

- iii. **Remington 700 Police LTR .308/.223 Bolt Action Rifle**, cost: approximately \$1,300, quantity not to exceed: 10.

The Sniper element of SWAT deploys precision rifles, which enable the stopping of an armed subject at a safe distance. The Sniper Rifle does not have an expiration and will need to be serviced or replaced when the rifle fails or breaks.

- iv. **Colt M16A1 Rifle**, caliber 5.56MM cost: \$0, quantity not to exceed: 1.

- v. **Heckler & Koch MP-5**, cost: approximately \$1,400, quantity not to exceed: 3.

The Heckler & Koch is a 9 mm MP5 submachine gun that uses a delayed blowback operating system.

- vi. **Ruger M77**, .308 Bolt Action Rifle, cost: approximately \$1,350, quantity not to exceed: 1.

- vii. **Desirable SWD Inc. "Street Sweeper" 12 Gauge Semi-Automatic Shotgun**, cost: approximately \$1,400, quantity: 2, quantity not to exceed: 2.

- viii. **Benelli M4 Super 90 shotgun**, cost: approximately \$1,900, quantity not to exceed: 10.

The Benelli M4 is a semi-automatic shotgun.

- ix. **The Hornady 5.56 NATO**, Cost: approximately \$35 a box, quantity not to exceed: 5,000 rounds.

75-grain, BTHP Tap Precision cartridge is the primary duty ammunition deployed during potential lethal encounters.

- x. **The Hornady .308 WIN.**, Cost: approximately \$50 a box, quantity not to exceed: 5,000 rounds.

168 grain, A-Max Tap Precision cartridge is ammunition deployed during potentially lethal encounters at longer distances. The 168-grain projectile maintains accuracy while resulting in higher impact velocities, less drop, less wind drift, and more energy on target.

Selection of which of the above ammunition to use is dependent on the threat and the environment (including barriers, weather conditions, uninvolved parties, etc.).

b) Purpose:

To be used as precision weapons to address a threat with more precision and/or greater distances than a handgun, if present and feasible.

c) Authorized Use:

Only members who are POST certified are authorized to use a rifle. All other applicable WPD policies remain in effect, including, but not limited to, WPD Policy 300 – Use of Force, WPD Policy 312 – Firearms Training and Qualifications, and WPD Policy 432 – Patrol Rifles.

d) Expected Lifespan:

- Carbine Rifle – No expiration
- The Hornady 5.56 NATO, 75 grain – No expiration.
- Sniper Rifles – No expiration
- The Hornady .308 WIN., 168 grain – No expiration.

e) Fiscal Impact:

- Carbine Rifle – Annual cost of approximately \$20,000
- The Hornady 5.56 NATO, 75 grain – Annual cost approximately \$0 - \$20,000.
- Sniper Rifle – Annual cost of approximately \$20,000
- The Hornady .308 WIN., 168 grain – Annual cost approximately between \$0 - \$20,000.

9. Distraction Devices: A device used to distract dangerous persons.

a) Description, quantity, capabilities, and purchase cost:

A Noise Flash Diversionary Device (NFDD) is a device that creates a bright flash and loud sound to temporarily divert the attention of subjects in the immediate area. NFDDs are used to distract and temporarily incapacitate dangerous suspects by overwhelming their senses of vision and hearing. The distraction allows officers to seize a moment of opportunity to take control of high-risk situations.

- i. **Defense Technology NFDD 12-GRAM LOW ROLL: DISTRACTION DEVICE**, cost: approximately \$4,345.97, quantity: 18, quantity not to exceed: 200.

The Model 8902NR 12-Gram low roll & trade: Non-Reloadable Distraction device® offers a more compact and improved version of the 8933 Low Roll body Distraction Device®. The unit incorporates an M201A1 type fuse with a hex design gun steel body to limit movement and rolling once it is deployed.

b) **Purpose:**

A distraction device is ideal for distracting dangerous suspects during assaults, hostage rescue, room entry, or other high-risk arrest situations. To produce atmospheric overpressure and brilliant white light and, as a result, can cause short-term (6 - 8 seconds) physiological/psychological, sensory deprivation to give officers a tactical advantage.

c) **Authorized Use:**

Diversionary Devices shall only be used:

- By officers who have been trained in their proper use.
- In hostage and barricaded subject situations.
- In high-risk warrant (search/arrest) services where there may be extreme hazards to officers.
- During other high-risk situations where their use would enhance officer safety.
- During training exercises.

d) **Expected Lifespan:**

Until used.

e) **Fiscal Impact:**

No annual maintenance

f) **Training**

Prior to use, officers must attend diversionary device training that is conducted by POST-certified instructors.

g) **Legal and Procedural Rules**

It is the policy of the WPD to utilize diversion devices only for official law enforcement purposes and pursuant to State and Federal law regarding the use of force.

10. PepperBall Launcher: A device that discharges irritant projectiles.

a) **Description, quantity, capabilities, and purchase cost:**

- i. **PepperBall TAC-SA CARBINE**, cost: approximately \$700, quantity not to exceed: 150.

The TAC-SA is a compressed-air-powered launcher designed to fire non-lethal PepperBall projectiles. The PepperBall TAC- SA is a semi-automatic electronic firing system with a firing rate of 10 to 12 rounds per second that is a compact, lightweight modular design with nylon construction with a 30 cubic inch air pressure system, hopper capable of carrying 160 rounds, and feeds 20 projectiles per second with anti-jamming technology and no recoil. The PepperBall TAC- SA launcher is designed for crowd management, riot control scenarios, or any situation requiring high-intensity engagement. It quickly disperses a pava compound across expanses. The device can also deliver an OC compound to add significant distance, which will increase officer safety and allow officers to utilize less lethal tactics and employ de-escalation techniques. (Added 08/08/22)

- ii. **PepperBall VKS CARBINE**, cost: approximately \$1,300, quantity not to exceed: 150.

The Variable Kinetic System (VKS) is a compressed-air-power launcher designed to fire non-lethal PepperBall projectiles. The PepperBall VKS Carbine features a Dual-Feed System that offers the ability to quickly switch between Hopper mode and Magazine mode for optimum versatility.

- iii. **PepperBall LIVE PROJECTILE**, cost: approximately \$2 per projectile, quantity not to exceed: 5,000.

The basic PepperBall projectile contains 2% PAVA pepper powder and is designed for direct impact and area saturation, especially in confined interior spaces. Discharged from a PepperBall Launcher, the projectile has a velocity of 280-350 FPS. The projectile has a direct impact of 60ft and an area of saturation of 150+ ft. The projectile contains 0.5% PAVA Powder.

- iv. **PepperBall LIVE-MAXX PROJECTILE**, cost: approximately \$2 per projectile, quantity not to exceed: 5,000.

The basic PepperBall projectile contains 5% PAVA pepper powder and is designed for direct impact and area saturation, especially in confined interior spaces. Discharged from a PepperBall Launcher, the projectile has a velocity of 280-300 FPS. The projectile has a direct impact of 60ft and an area of saturation of 150+ ft. The projectile contains 0.5% MAXSAICINPAVA Powder.

- v. **PepperBall LIVE-X PROJECTILE**, cost: approximately \$3 per projectile, quantity not to exceed: 10,000.

The Live Projectile contains a concentrated amount of PAVA pepper powder. One round of LIVE-X contains the equivalent of 10 PepperBall rounds. Discharged from a PepperBall Launcher, the projectile has a velocity of 280-350 FPS. The projectile has a direct impact of 60ft and an area of saturation of 150+ ft. The projectile contains 5% PAVA Powder.

b) Purpose:

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

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

c) Authorized Use:

Only those officers who have been trained in the use of PepperBall launchers are authorized to use the PepperBall launchers. All other applicable SCPD policies remain in effect, including, but not limited to, WPD Policy 300 – Use of Force.

d) Training:

Sworn members utilizing PepperBall launchers and projectiles are trained in their use by a POST-certified, less lethal, and chemical agent instructor.

e) Expected Lifespan:

- PepperBall VKS Carbine- approximately 20 years
- PepperBall Live Projectile- approximately 3 years
- PepperBall Live-X Projectile- approximately 3 years

e) Fiscal Impact:

- PepperBall Launcher: estimated between \$0 and \$7,500 annually.
- Live Projectile: estimated between \$0 and \$3,412 annually.
- Live-X Projectile: estimated between \$0 and \$9,000 annually.

f) Legal and Procedural Rules:

Use is established under WPD Policy 308. It is the policy of the WPD to utilize PepperBall only for official law enforcement purposes and pursuant to State and Federal law, including those regarding the use of force.

11. Breaching Apparatus:**a) Description, quantity, capabilities, and purchase cost:**

- i. **Kinetic Breaching Tool 3-1000**, cost: approximately \$10,725, quantity not to exceed: 5.

A crimped blank explosive charge drives a captive steel impact plate, which is directed at door hardware. The impact plate extends forward out of the clamshell shroud and impacts the target with a high level of kinetic energy, and defeats the hardware. The impact plate automatically retracts and is reset in less than one second. Semi-automatic cycling allows repeated strikes on hardened or multiple targets.

b) Purpose:

To safely gain entry into a structure.

c) Authorized Use:

Kinetic breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field and during training exercises. All other applicable WPD policies remain in effect.

d) Expected Lifespan:

- Kinetic Breaching Tool - approximately 25 years.

e) Training:

Prior to use, officers must attend breaching device training that is conducted by POST-certified instructors.

f) Fiscal Impact:

No annual maintenance

g) Legal and Procedural Rules:

It is the policy of the WPD to utilize breaching devices only for official law enforcement purposes and pursuant to State and Federal law regarding the use of force.

12. Breaching Shotgun:

a) Description, quantity, capabilities, and purchase cost:

- REMINGTON 870 shotgun**, cost: approximately \$946, quantity not to exceed: 10.
- Defense Technology TKO 12-GAUGE BREACHING ROUND**, cost: approximately \$5, quantity not to exceed: 200.

The 12-gauge TKO Breaching Round is a 12-gauge shell loaded with a compressed zinc slug, utilizing smokeless powder as a propellant. The breaching round is a widely used method to breach door locks or hinges for entry during tactical operations. When properly deployed, the TKO is capable of defeating door lock mechanisms, doorknobs, hinges, deadbolts, safety chains, and padlocks on both wooden and hollow core doors. Upon impact with the target, the zinc slug disintegrates into a fine powder, eliminating fragmentation.

b) Purpose:

To safely gain entry into a structure.

c) Authorized Use:

Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field and during training exercises. All other applicable WPD policies remain in effect.

d) Expected Lifespan:

- Remington 870 Less Lethal Shotgun- approximately 25 years.
- Defense Technology TKO 12-GAUGE BREACHING ROUND - No expiration

e) Training:

Prior to use, officers must attend breaching device training that is conducted by Post certified instructors.

f) Fiscal Impact:

No annual maintenance

g) Legal and Procedural Rules:

It is the policy of the WPD to utilize breaching devices only for official law enforcement purposes and pursuant to State and Federal law regarding the use of force.

MAINTENANCE OF MILITARY USE SUPPLY LEVELS:

When stocks of military equipment have reached significantly low levels or have been exhausted, the Department may order up to 50% of the stock in a calendar year without city council approval to maintain essential availability for the Department's needs. WPD is authorized to acquire additional stock of items listed here from other law enforcement agencies of CalOES in the event of an emergency when approved by the COP or designee.