

SHASTA COUNTY SHERIFF'S OFFICE

MILITARY EQUIPMENT REPORT

A. MILITARY USE EQUIPMENT

- 1) **Unmanned Aircraft System (UAS):** An unmanned aircraft along with the associated equipment necessary to control it remotely

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

i. DJI MATRICE 300 RTK, cost: \$32,353.00 each, quantity: 1. UAS with enhanced flight time, payload & sensor capabilities. Delivers air support, security & intelligence via onboard cameras & sensors. Utilized for public safety & commercial use

- **Used in 2023**
 - **Training: 6 times**
 - **Missions: 14 times**
 - **Costs: \$1011.98 hauling system**

ii. DJI MAVIC 2 MINI, cost: \$599.00 each, quantity: 2. UAS with capabilities to deploy quickly & ultra-compact size. Delivers air support, security & intelligence via onboard cameras & sensors

- **Used in 2023**
 - **Training: 5 times**
 - **Missions: 3 times**

iii. DJI MAVIC 2 ENTERPRISE ADVANCE, cost: \$7,158.00 each, quantity: 5. UAS with compact size & advanced sensor capabilities, utilized for public safety. Delivers air support, security & intelligence via onboard cameras & sensors

- **Used in 2023**
 - **Training: 6 times**
 - **Missions: 12 times**

b. Purpose:

The use of the UAS potentially involves privacy considerations. Absent a warrant or exigent circumstances, operators and observers shall adhere to FAA altitude regulations and shall not intentionally record or transmit images of any location where a person would have a reasonable expectation of privacy (e.g., residence, yard, enclosure). Operators and observers shall take reasonable precautions to avoid inadvertently recording or transmitting images of areas where there is a reasonable expectation of privacy. Reasonable precautions can include, for example, deactivating or turning imaging devices away from such areas or persons during UAS operations

c. Authorized Use:

Only assigned operators who possess a valid Remote Pilot Certificate (14 CFR Part 107) and have received department approved training in the operation, applicable laws, policies, and procedures regarding the use of the UAS. To maintain the "Qualified Operator" status, pilots must have passed a yearly department certification. Operational use under the review of the shift supervisor, program manager and oversight by the Services Captain

d. Expected Life Span:

All UAV equipment, 5 years

e. Fiscal Impact:

Annual maintenance and battery replacement cost is approximately \$2,000.00

f. Training:

All Department UAS operators will attend vendor provided orientation, monthly training & certification

g. Legal and Procedural Rules:

Use is established under Shasta County Sheriff's Policy 609 and FAA Regulation 14 CFR Part 107. It is the policy of the Shasta County Sheriff's Office utilize UAV only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law

2) **Robots:** Unmanned machine operating on the ground utilized to enhance the safety to the community and officers

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

i. RECON SCOUT THROWBOT TB2, original purchase cost: \$26,290.00, quantity: 2. The TB2 are throwable micro-robot platforms that enables operators to obtain instantaneous video and audio reconnaissance within indoor or outdoor environments. Provides ability to remotely view areas which present possible danger to human life and provide real time visual observations

- **Used in 2023**
 - **Training: 2 times**
 - **Missions: 0 times**

ii. REMOTEC BOMB ROBOT, cost: \$225,000.00, quantity: 1. Robot can be remotely operated from a distance for visual reconnaissance and operational function while providing protection and safety for technicians

- **Used in 2023**
 - **Training: 15 times**
 - **Missions: 3 times**

iii. PACBOTS BOMB/SWAT ROBOTS, cost: \$0 10-33 Program, quantity: 2. Robot can be remotely operated from a distance for visual reconnaissance and operational function while providing protection and safety for technicians

- **Used in 2023**
 - **Training: 0 times**
 - **Missions: 0 times**

b. Purpose:

To be used to remotely gain visual/audio data, deliver HNT phone, 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 identified at sections 2(a)(i) through (ii). Use is established by the SWAT Team Leader, SWAT Commander, Bomb Squad Commander and or Incident Commander

d. Expected Life Span:

All robots, 5 years

e. Fiscal Impact:

Annual maintenance and battery replacement cost is approximately \$7,500-\$10,000.00

f. Training:

Robot operator's complete orientation and annual refresher

g. Legal and Procedural Rules:

It is the policy of the Shasta County Sheriff's Office 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

3) **Armored Vehicles:** Commercially produced wheeled armored personnel vehicle utilized for law enforcement purposes

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

i. Lenco Bearcat, G3, cost: \$349,248.74, quantity: 1. The Lenco Bearcat, G3 is a commercially produced four door, four wheeled armored diesel vehicle that seats 10-12 personnel with an open floor plan that allows for rescue of citizens and down personnel. It has run flat tires and an increased ground clearance with water fording upgrade and a robust suspension, with armored oil pan guard, which allows for an emergency response to almost any situation. The vehicle also comes with rotating hatch, 360-degree camera, remote control spotlight, intercom system, rear A/C and heating system. It can stop various projectiles, which provides greater safety to citizens and officers beyond the protection level of a shield and personal body armor.

- **SCSO took delivery of the vehicle in December of 2023**
- **Used in 2023**
 - **Training: 0 times**
 - **Missions: 0 times**
 - **Costs: \$349,248.74 to include tax and usage feed**

ii. HMMWV HUMVEES, cost: \$0 initial, quantity: 2 operational. The Humvees are 1033 military program four wheeled high mobility multipurpose armored rescue/transport vehicles. Capable of transporting four-five personnel. It can stop various projectiles, which provides greater safety to citizens and officers beyond the protection level of a shield and personal body armor

- **Used in 2023**
 - **Training: 0 times**
 - **Missions: 3 times**
 - **Costs: \$534.91 two batteries (one Humvee)**

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 only be authorized by a watch commander, SWAT commander, or Incident 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 Life Span:

Lenco Bearcat G3 10 years and Humvees, 5 years

e. Fiscal Impact:

The initial purchase of the Lenco Bearcat is \$349,248.74 Shasta County received monies from the Zogg Fire for the purchase cost. Annual maintenance costs for Shasta County are approximately \$1,200.00

f. Training:

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

g. Legal and Procedural Rules:

Use is established under Policy 702 & 703. 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 Command Post Vehicle:** A mobile office that provides shelter, access to Sheriff's Office computer systems, and communications on extended events

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

i. Custom Designed Motorhome chassis (custom built) vehicle, cost: \$600,000, quantity: 1. The vehicle can be utilized as a field Command Posts for critical incidents to include; natural disasters, preplanned events, searching for lost or missing persons, community events, high profile investigations, investigations requiring the management of law enforcement personnel and activities, tactical missions and other critical incidents

- **Used in 2023**

- **Training: 4 times**
- **Missions: 0 times**

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:

The Command Vehicle shall be used by officers trained in the deployment during the need for a field Command Post

d. Expected Life Span:

The Command Vehicle, 5 years on the chassis and vehicle structure. Updates are needed monthly to maintain IT systems

e. Fiscal Impact:

Annual maintenance cost is approximately \$3,000

f. Training:

The driver/operator shall receive orientation and initial training in the safe handling of the vehicle. Once the operator has shown competence in vehicle handling, the driver/operator will drive the vehicle as directed by the Incident Commander

g. Legal and Procedural Rules:

It is the policy of the Department to use the Command Vehicle only for official law enforcement purposes, and in accordance with California State law regarding the operation of motor vehicles

5) **40MM, & 37MM Launchers and Rounds:** 40MM Launchers are utilized by department personnel as a less lethal tool to launch impact rounds during critical incidents within department policy

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

i. DEFENSE TECHNOLOGY, 40MM SINGLE SHOT LAUNCHER, cost: \$985.70, quantity: 3. The 40MM is a tactical single shot launcher with a 14-inch barrel and is breach loaded. It will fire standard 40mm less lethal ammunition and chemical agent munitions. Is only authorized to be used by qualified personnel

ii. DEFENSE TECHNOLOGY, 37MM SINGLE SHOT LAUNCHER, cost: \$985.70, quantity: 2. The 37mm is a tactical single shot launcher with a 14-inch barrel and is breach loaded. It will fire standard 37mm less lethal ammunition and chemical agent munitions. Is only authorized to be used by qualified personnel

iii. FEDERAL, 37MM SINGLE SHOT LAUNCHER, cost: UNK, quantity: 2. The 37mm is a tactical single shot launcher with a 14-inch barrel and is breach loaded. It will fire standard 37mm less lethal ammunition and chemical agent munitions. Is only authorized to be used by qualified personnel

iv. TRULITE, 37MM SINGLE SHOT LAUNCHER, cost: UNK, quantity: 1. The 37mm is a tactical single shot launcher with a 14-inch barrel and is breach loaded. It will fire standard 37mm less lethal ammunition and chemical agent munitions. Is only authorized to be used by qualified personnel

v. DEFENSE TECHNOLOGY, FERRETT 40MM CHEMICAL AGENT/CS LIQUID ROUND, cost: \$25.25, quantity: 38. A less lethal 40MM round used 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

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 0 rounds**

vi. CTS FERRETT 40MM BARRICADE PROJECTILE CS POWDER ROUND, cost: \$23.75, quantity: 26. A less lethal 40MM round used 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

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 0 rounds**

vii. DEFENSE TECHNOLOGY, 40 MM EXACT IMPACT SPONGE ROUND, cost: \$26.50, quantity: 20. The sponge round is a less lethal point of aim point of impact direct fired round. Used for Crowd Control, Patrol, and Tactical Applications.

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 0 rounds**

viii. DEFENSE TECHNOLOGY, 40MM RUBBER BALL ROUND, cost: \$28.40, quantity: 28. Multiple Rubber Ball Round is a less lethal round and most widely used as a crowd management tool by Law Enforcement and Correctional personnel

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 0 rounds**

b. Purpose:

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

c. Authorized Use:

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

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

d. Expected Life Span:

- i. Defense Technology 40MM 10 years
- ii. Defense Technology 37MM 10 years
- iii. Federal 37MM 10 years
- iv. Trulite 37MM 10 years
- v. Defense Technology 40MM Ferret Chemical agent CS/Liquid round 5 years
- vi. CTS Ferret 40MM Barricade Projectile CS/Powder round 5 years
- vii. Defense Technology 40 MM Exact Impact Sponge round 5 years
- viii. Defense Technology 40 MM Rubber Ball round 5 years

e. Fiscal Impact:

Annual maintenance is approximately \$50 for each launcher and munitions cost vary due to the use for incidents and trainings

f. Training:

Sworn members utilizing 40MM less lethal chemical agents or impact rounds are trained in their use by POST certified less lethal and chemical agent instructors and Basic SWAT school and annual training

g. Legal and Procedural Rules:

Use is established under Policy 300. It is the policy of the Shasta County Sheriff's Office 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, Semi-auto gun & munitions:** Less Lethal Shotgun is used to deploy the less lethal 12-gauge industry standard beanbag round

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

i. REMINGTON 870 LESS LETHAL SHORT BARREL SHOTGUN, cost: \$400.00, quantity: 3. The Remington 870 Less Lethal Shotgun is a pump action 14-inch barrel used to deploy the less lethal 12-gauge Beanbag Round. 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

ii. REMINGTON 870 LESS LETHAL STANDARD BARREL SHOTGUN, cost: \$400.00, quantity: 32. The Remington 870 Less Lethal Shotgun is a pump action 18-inch barrel used to deploy the less lethal 12-gauge Beanbag Round. 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

iii. FABRIQUE NATIONAL FN303 LESS LETHAL RIOT GUN, cost \$1,299.00, quantity: 2 Semi-automatic with 15 round drum magazine that delivers less lethal compressed air .68 caliber fin stabilized projectile

iv. CTS SUPER-SOCK BEANBAG ROUND, cost: \$6.45, quantity: 131. 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 butt stock and fore grip. 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

- **Used in 2023**
 - **Training: 60 rounds**
 - **Missions: 4 rounds**

vi. FABRIQUE NATIONAL FN303 LESS LETHAL IMPACT ROUND, cost: \$25.00, quantity: 275. Less lethal .68 caliber fin stabilized clear color impact rounds and is a point-of-aim, point-of-impact direct-fire round. Used for Jail riot control, and Tactical Applications, but not limited to other circumstances involving patrol tactical situations, dangerous, vicious, animals, and high-risk situations

- **Used in 2023**
 - **Training: 160 rounds**
 - **Missions: 0 rounds**

b. Purpose:

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

c. Authorized Use:

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

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

d. Expected Life Span:

Remington 870 Less Lethal Shotguns 10 years

FN303 Semi-auto Less Lethal 10 years

Industry standard beanbag round 5 years

e. Fiscal Impact:

Annual maintenance is approximately \$50 for each shotgun and munitions cost vary due to the use for incidents and trainings

f. Training:

All officers are trained in the 12 gauge less lethal shotgun as a less lethal option by in-service training. SWAT & CERT personnel receive additional training internally when they transfer to the unit

g. Legal and Procedural Rules:

Use is established under Policy 303. It is the policy of the Shasta County Sheriff's Office 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) **Distraction Devices:** A distract device is ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high-risk arrest situations

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

i. COMBINED TACTIACL SYSTEMS, SINGLE FLASH-BANG, cost: \$42.55, quantity: 13. A non-bursting, non-fragmenting single-bang device that produces a thunderous bang with an intense bright light produces 6-8 million candelas of light and 175db output. Ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high-risk arrest situations. 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 officers a tactical advantage

- **Used in 2023**
 - **Training: 3 rounds**
 - **Missions: 0 rounds**

ii. COMBINED TACTICAL SYSTEMS, DOUBLE FLASH-BANG, cost: \$38, quantity: 31. A non-bursting, non-fragmenting multi-bang device that produces a thunderous bang with an intense bright light produces 6-8 million candelas of light and 175db output. Ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high-risk arrest situations. 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 officers a tactical advantage

- **Used in 2023**
 - **Training: 1 round**
 - **Missions: 1 round**

iii. COMBINED TACTICAL SYSTEMS, 9x FLASH-BANG, cost: \$38, quantity: 12. A non-bursting, non-fragmenting 9x-bang device that produces a thunderous bang with an intense bright light produces 6-8 million candelas of light and 175db output. Ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high-risk arrest situations. 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 officers a tactical advantage

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 0 rounds**

iv. DEFENSE TECHNOLOGY, SINGLE FLASH-BANG, cost: \$42.55, quantity: 0. A non-bursting, non-fragmenting single-bang device that produces a thunderous bang with an intense bright light produces 6-8 million candelas of light and 162db output. Ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high-risk arrest situations. 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 officers a tactical advantage

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 0 rounds**

b. Purpose:

Devices are used to create a distraction during high risk situations

c. Authorized Use:

Diversionsary Devices shall only be used:

- i. By officers who have been properly trained in their use
- ii. In hostage and barricaded subject situations
- iii. In high-risk warrant (search/arrest) services may be extreme hazards to officers

iv. During other high-risk situations where their use would enhance officer safety

v. During training exercises

d. Expected Life Span:

Designed for single use

e. Fiscal Impact:

Estimated annual purchase cost of Distraction Device \$450 and may vary due to the use for incidents and trainings

f. Training:

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

g. Legal and Procedural Rules:

It is the policy of the Shasta County Sheriff's Office to utilize diversion devices only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force

8) **Rifles:** Firearms that are fired from shoulder level, having a long spirally grooved barrel intended to make bullets spin and thereby have greater accuracy over a long distance.

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

i. FN FAL 7.62x51mm CALIBER RIFLE, cost: \$1000.00, quantity: 1. The FN FAL is a semi-automatic gas piston operated rifle with an 18-inch Barrel. Individually carried rifle by personnel to provide the ability to engage threats at greater distance with precision

ii. HK 91 7.62x51mm CALIBER RIFLE, cost: \$1000.00, quantity: 1. The HK 91 is a semi-automatic gas piston operated rifle with an 18-inch Barrel. Individually carried rifle by personnel to provide the ability to engage threats at greater distance with precision

iii. COLT M4 5.56x45mm CALIBER RIFLE, cost: \$800.00, quantity 15. The Colt is a gas operated select fire carbine with a 14.5-inch Barrel. Individually carried rifle by personnel to provide the ability to engage threats at greater distance with precision

iv. HK MP5 9x19mm SUB MACHINEGUN, cost: \$1000.00, quantity: 5. The HK MP5 is a gas blowback operated select fire SMG with a 9-inch Barrel. Individually carried sub machine gun by personnel to provide the precision of a rifle while firing a handgun cartridge

v. COLT AR-15 5.56x45mm CALIBER RIFLE, cost: \$800.00, quantity 7. The Colt is a gas operated semi-automatic carbine with a 16-inch Barrel. Individually carried rifle by personnel to provide the ability to engage threats at greater distance with precision

vi. SGW M16 A1 5.56x45mm CALIBER RIFLE, cost: \$800.00, quantity 1. The Colt is a gas operated semi-automatic carbine with a 20-inch Barrel. Individually carried rifle by personnel to provide the ability to engage threats at greater distance with precision

vii. COLT CAR-16 5.56x45mm CALIBER RIFLE, cost: \$800.00, quantity 5. The Colt is a gas operated semi-automatic carbine with a 16-inch Barrel. Individually carried rifle by personnel to provide the ability to engage threats at greater distance with precision

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 that are POST certified are authorized to use a rifle or have completed Basic SWAT School and qualify annually

d. Lifespan:

i. FN FAL 7.62x51mm CALIBER RIFLE 10 years

ii. HK 91 7.62x51mm CALIBER RIFLE 10 years

iii. COLT M4 5.56x45mm CALIBER RIFLE 10 years

iv. HK MP5 9x19mm SUB MACHINEGUN 10 years

v. COLT AR-15 5.56x45mm CALIBER RIFLE 10 years

vi. SGW M16 A1 5.56x45mm CALIBER RIFLE 10 years

vii. COLT CAR-16 5.56x45mm CALIBER RIFLE 10 years

e. Fiscal Impact:

Annual maintenance is approximately \$50 for each rifle

f. Training:

Prior to using a rifle, officers must be certified by POST instructors in the operation of the rifle or have completed Basic SWAT school. Additionally, all members that operate any rifle are required to pass a range qualification once a year

g. Legal and Procedural Rules:

Use is established under Policy 306. It is the policy of the Shasta County Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force

9) **Chemical Agent and Smoke Canisters:** Canisters that contain chemical agents that are released when deployed

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

i. CTS FLAMELESS TRI-CHAMBER CS CANISTER, cost: \$34.99, quantity: 53. 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. Produces white smoke and chemical irritant in indoor or outdoor environments. Pyrotechnic grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire. To disperse crowds, unlawful assemblies, control/ restrict movement or access to areas, and force barricaded subjects out of structures

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 5 rounds**

ii. CTS POCKET TACTICAL CS CANISTER, cost: \$40.90, quantity: 5. Produces white smoke and chemical irritant in outdoor environments. Burning grenade that discharges a high volume of smoke and chemical agent through multiple emission ports. To disperse crowds, unlawful assemblies, or control/ restrict movement or access to areas

- **Used in 2023**
 - **Training: 2 rounds**
 - **Missions: 0 rounds**

iii. CTS OC AERSOL, cost: \$45.00, quantity: 2. OC Chemical agent canister. Introduces OC irritant into specified area where deployed. Can be introduced by hand or with other delivery device. Delivers an invisible OC vapor and renders an intense respiratory effect to a non-compliant subject. To introduce chemical agent into area while posing the least amount of risk to human life

- **Used in 2023**
 - **Training: 0 rounds**
 - **Missions: 0 rounds**

iv. DEFENSE TECHNOLOGY, STINGER-BALL CS, cost: \$40.50, quantity: 7. Projects the rubber balls and chemical agent in a 50-foot radius. CS Grenade with safety clip is a maximum effect device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and CS. Grenade is most widely used as a crowd management tool by Law Enforcement and Corrections

- **Used in 2023**
 - **Training: 2 rounds**
 - **Missions: 0 rounds**

b. Purpose:

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

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

Only officers who have been properly trained in the use chemical agents are authorized to use chemical agents
- d. Expected Life Span:

5 years from manufacturing date
- e. Fiscal Impact:

Estimated annual purchase cost of chemical agent/ smoke canisters \$150 and may vary due to the use for incidents and trainings
- f. Training:

Sworn members utilizing chemical agent canisters are certified by POST less lethal and chemical agents instructors
- g. Legal and Procedural Rules:

It is the policy of the Shasta County Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force

10) **Vests and Helmets:** PPE that are used to protect personnel

- a. Description, quantity, capabilities, and purchase cost:
 - i. LEVEL IIIA BALLISTIC HELMETS, for SWAT, cost: \$5,660.00, quantity: 12. Commercially produced and provides level IIIA ballistic protection for the wearer's head. NIJ level IIIA ballistic rated helmet for personal use/ protection. Individually worn to protect the wearer's head from ballistic threats
 - **Used in 2023**
 - **Training: 12**
 - **Missions: 5**
 - ii. LEVEL IIIA BALLISTIC VESTS, for SWAT, cost: \$7,200.00, quantity: 12. Commercially produced Level III body worn ballistic vest. Provides level III ballistic protection for the wearer's torso. NIJ Level III ballistic rated protective vest for personal use/ protection. Individually worn over the uniform to protect the wearer's torso from ballistic threats

- **Used in 2023**
 - **Training: 12**
 - **Missions: 5**
 - **Costs: \$5999.93 new vests**

iii. LEVEL IIIA SOFT BODY ARMOR, for staff, cost: \$100,942.80, quantity: 120. Commercially produced Level IIIA soft body armor worn for ballistic protection. Provides level III ballistic protection for the wearer's torso. NIJ Level III ballistic rated protective vest for personal use/ protection. Individually worn under the uniform to protect the wearer's torso from ballistic threats

- **Used in 2023**
 - **Training: Daily**
 - **Missions: Daily**
 - **Costs: \$24,750.00 for new vests**

iv. KEVLAR HELMETS, for staff, cost: \$27,000.00, quantity: 90. Ceradyne BA3A Level IIIA is a commercially produced ballistic helmet. NIJ Level IIIA ballistic threat protection standards (9mm). Shell is manufactured using advanced Thermoplastic Aramid and composites. Will accommodate field-mount face shields

- **Used in 2023**
 - **Training: Daily**
 - **Missions: Daily**

v. LEVEL IIIA BALLISTIC PLATES, for staff, cost: \$15,600.00, quantity 40. Commercially produced Level III hard body armor worn for ballistic protection. Provides level III ballistic protection for the wearer's torso. Ballistic plate rated protection against 5.56, M193, 5.56x45, M855, SS109, 7.62x51 and NATO ball ammo up to 3100 FPS. vest. Individually worn for personal use/ protection over the uniform and soft body armor to protect the wearer's torso from ballistic threats

- **Used in 2023**
 - **Training: Daily**
 - **Missions: Daily**

b. Purpose:

To provide protection to the wearer's head and torso

c. Authorized Use:

Worn by SWAT members, Patrol, Detectives, Boating Safety, Community Service Officers, Animal Regulation Officers and Cadets for added protection during missions, daily assignments, and training

d. Lifespan:

- i. Level IIIA Ballistic Helmets - SWAT 5 years
- ii. Level IIIA Ballistic Vests - SWAT 5 years
- iii. Level IIIA Soft Body Armor – Staff – 5 years

- iv. Kevlar Helmets – Staff – 5 years
- v. Level IIIA Ballistic Plates – Staff – 20 years
- e. Fiscal Impact:
 - i. Level IIIA Ballistic Helmets – SWAT = \$1,332.00
 - ii. Level IIIA Ballistic Vests – SWAT = \$1,440.00
 - iii. Level IIIA Soft Body Armor – Staff = \$20,188.56
 - iv. Kevlar Helmets – Staff = \$5,400.00
 - v. Level IIIA Ballistic Plates – Staff = \$780.00
- f. Training:

Personnel training with the PPE equipment, specialized training received during internal departmental monthly secessions and onboarding with new employees
- g. Legal and Procedural Rules:

Use is established under Policy 1012. It is the policy of the Shasta County Sheriff's Office to utilize PPE for personnel only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force

11) Explosive Ordinance: Equipment used to destroy or render safe known or unknown items

- a. Description, quantity, capabilities, and purchase cost:
 - i. DETONATING CORD, cost: .55 - \$1.48 per foot depending on size, quantity: 25 grain – 4,920 feet, 50 grain – 1,850 feet, 100 grain – 0 feet, 200 grain – 390 feet. Detonating cord is a thin, flexible plastic tube usually filled with pentaerythritol tetranitrate (PETN, pentrite). With the PETN exploding at a rate of approximately 6400 m/s, any common length of detonation cord appears to explode instantaneously. It is a high-speed fuse which explodes, rather than burns, and is suitable for detonating high explosives. This is the most commonly used explosive in the inventory and is used on most calls where explosives are employed as a means of defeating an explosive threat. Detonating cord is used as a standalone explosive or to initiate secondary explosives such as C4, Detasheet, shape charges etc
 - **Used in 2023**
 - **Training: 0 feet**
 - **Missions: 135 feet**
 - ii. BLASTING CAP, cost: \$15.86 each, quantity: 64. A blasting cap is a small sensitive primary explosive device generally used to detonate a larger, more powerful and less sensitive secondary explosive such as TNT, dynamite, or plastic explosive. Blasting caps come in a variety of types, including non-electric caps, electric caps, and fuse caps. The use of blasting caps is a requirement to safely initiate secondary explosives

- **Used in 2023**
 - **Training: 0**
 - **Missions: 12**

iii. C4 BULK EXPLOSIVE, cost: \$160.72 per pound, quantity: 4 lbs. C4 explosive is a moldable explosive that is a mix of plastic binder and explosive material. C4 is a secondary explosive that is used when the need to have an explosive with a high detonating velocity is required to breach or destroy the object in question

- **Used in 2023**
 - **Training: 0 pounds**
 - **Missions: 0 pounds**

iv. SHEET EXPLOSIVE, cost \$296.44 per pound, quantity: 6.4 lbs. Goes under several names including Detasheet and Flexsheet. This type of explosive is a mix of plasticizer and either RDX or PETN explosive. This explosive is initiated by a blasting cap or detonating cord in conjunction with a blasting cap. This is a special purpose type of explosive and is needed in order to make blasting tools which are used in specific instances to defeat explosive threats

- **Used in 2023**
 - **Training: 0 pounds**
 - **Missions: 0 pounds**

v. SHAPE CHARGES, cost: \$32.74 each, quantity: 4. This type of explosive is also known as an oil perforator and is a special purpose explosive that is only employed when there is a need to penetrate a heavy metal container that has an explosive threat inside of it. The actual amount of explosive contained in the charge is approximately one quarter pound and is innated through the use of detonating cord and a blasting cap

- **Used in 2023**
 - **Training: 0**
 - **Missions: 0**

vi. CAST BOOSTERS, cost: \$7.82 - \$14.64 each depending on size, quantity: 150 gram – 79, 350 gram – 2, 450 gram – 7. An explosive booster is a cardboard tube filled with a pre-determined amount of explosive which is sealed on both ends. The idea behind a booster charge is to have a stable amount of explosive that is easily measured when used to destroy an explosive threat

- **Used in 2023**
 - **Training: 0**
 - **Missions: 15**

vii. TEX PAK, cost: \$21.00 each, quantity: 2. Texpak is a two-part explosive that is commonly referred to as a binary explosive. The idea behind a binary explosive is that the explosive is not armed until two separate compounds are mixed. You have a part A and a part B which are not generally explosive by themselves until mixed. This type of explosive is a special purpose explosive and is not commonly or used on a regular basis

- **Used in 2023**
 - **Training: 0**
 - **Missions: 0**

viii. TNT, cost: \$117.08 per pound, quantity: 0. This explosive is initiated by a blasting cap or detonating cord in conjunction with a blasting cap. This is a special purpose type of explosive and is needed in order to make blasting tools which are used in specific instances to defeat explosive threats

- **Used in 2023**
 - **Training: 0 pounds**
 - **Missions: 0 pounds**

b. Purpose:

To destroy or render suspicious items safe when there is a suspected explosive hazard. The use of explosives to destroy explosive hazards is oftentimes the safest method to render these items safe. Each type of explosives has a unique purpose when used to address potential explosive hazards in the community.

c. Authorized Use:

Current certified Bomb Technicians

d. Expected Life Span:

The lifespan of the above listed explosives varies by the type of explosive and its exposure to environmental factors. It is also not uncommon for large quantities of explosives to be consumed on multi day calls for service.

e. Fiscal Impact:

Varies from year to year, based on calls for service and the need to destroy known or unknown items

f. Training:

Complete FBI Bomb school and monthly trainings

g. Legal and Procedural Rules:

It is the policy of the Shasta County Sheriff's Office to utilize explosives only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of explosives