



**SANTA ROSA  
POLICE**

# **AB 481 REPORT**

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**ANNUAL MILITARY  
EQUIPMENT REPORT**

**JULY 1, 2022-JUNE 1, 2023**

Santa Rosa Police Department  
965 Sonoma Ave.  
Santa Rosa, CA 95404  
SantaRosaPD.com

## Introduction

In September of 2021, Assembly Bill 481 was signed into state law. This bill provided oversight in relation to the funding, acquisition and use of military equipment for law enforcement agencies. It requires law enforcement agencies to create a policy related to military equipment and receive the approval of the local governing body by ordinance through the adoption of a military equipment use policy.

## Background of Assembly Bill 481

The passage of Assembly Bill 481 added several new statutes to the Government Code (GC § 7070-7075). These statutes require any state or local law enforcement agency that uses or wants to acquire “military equipment” defined in the statute to have created a written policy detailing the acquisition and use of the equipment which is adopted by ordinance.

Enumerated through the above Government Codes, AB 481 created the following 15 categories of items deemed military equipment:

1. Unmanned, remotely piloted, powered aerial or ground vehicles.
2. Mine-resistant ambush-protected (MRAP) vehicles or armored personnel carriers. However, police versions of standard consumer vehicles are specifically excluded from this subdivision.
3. High mobility multipurpose wheeled vehicles (HMMWV), commonly referred to as Humvees, two and one-half-ton trucks, five-ton trucks, or wheeled vehicles that have a breaching or entry apparatus attached. However, unarmored all-terrain vehicles (ATVs) and motorized dirt bikes are specifically excluded from this subdivision.
4. Tracked armored vehicles that provide ballistic protection to their occupants and utilize a tracked system instead of wheels for forward motion.
5. Command and control vehicles that are either built or modified to facilitate the operational control and direction of public safety units.
6. Weaponized aircraft, vessels, or vehicles of any kind.
7. Battering rams, slugs, and breaching apparatuses that are explosive in nature. However, items designed to remove a lock, such as bolt cutters, or a handheld ram designed to be operated by one person, are specifically excluded from this subdivision.

8. Firearms of .50 caliber or greater. However, standard issue shotguns are specifically excluded from this subdivision.
9. Ammunition of .50 caliber or greater. However, standard issue shotgun ammunition is specifically excluded from this subdivision.
10. Specialized firearms and ammunition of less than .50 caliber, including assault weapons as defined in Sections 30510 and 30515 of the Penal Code, with the exception of standard issue service weapons and ammunition of less than .50 caliber that are issued to officers, agents, or employees of a law enforcement agency or a state agency.
11. Any firearm or firearm accessory that is designed to launch explosive projectiles.
12. "Flashbang" grenades and explosive breaching tools, "tear gas," and "pepper balls," excluding standard, service-issued handheld pepper spray.
13. Taser Shockwave, microwave weapons, water cannons, and the Long-Range Acoustic Device (LRAD).
14. The following projectile launch platforms and their associated munitions: 40mm projectile launchers, "bean bag," rubber bullet, and specialty impact munition (SIM) weapons.
15. Any other equipment as determined by a governing body or a state agency to require additional oversight.

### Background of Santa Rosa Police Department Military Equipment

With the passage of AB 481, the Santa Rosa Police Department (SRPD) drafted Policy-706- Military Equipment Use Policy. SRPD possesses items under 8 of the above AB 481 military equipment categories which are detailed in the policy. The 8 categories of "military equipment" identified are below:

1. Category 1 - Unmanned Aerial and Ground Systems
2. Category 2 - Armored Rescue Vehicle (Available through MOU)
3. Category 5 - Mobile Command Vehicle
4. Category 7 - Breaching Shotgun
5. Category 10 - SWAT Sniper and Entry Rifles/Ammunition, Shotgun Launching Cup, HK MP 5
6. Category 12 - Flashbangs, Indoor and Outdoor Chemical Agents (CS and OC),
7. Category 13 - Long Range Acoustic Device (LRAD)
8. Category 14 - 40mm Projectile Launchers, 40mm Less Lethal Sponge Rounds

SRPD does not currently receive or utilize surplus military equipment and does not

possess equipment obtained from the military. Additionally, SRPD does not participate in the Law Enforcement Support Officer 10-33 program.

In addition to identifying the above items which fall under military equipment, the policy includes the following:

- Equipment Description
- Quantity
- Capabilities
- Expected Lifespan
- Purpose and Authorized Use
- Fiscal Impact
- Legal and Procedural Rules that govern each use
- Required Training
- Compliance Mechanisms

In conjunction with the policy and with the collaboration of the City Attorney's Office, a Military Equipment Use ordinance was drafted. The ordinance and policy were drafted based on the following findings pursuant to AB 481:

1. Military equipment is necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety.
2. The proposed military equipment use policy will safeguard the public's welfare, safety, civil rights, and civil liberties.
3. If purchasing the equipment, the equipment is reasonably cost effective compared to available alternatives that can achieve the same objective of officer and civilian safety.
4. Prior military equipment use complied with the military equipment use policy that was in effect at the time, or if prior uses did not comply with the applicable military equipment use policy, corrective action has been taken to remedy nonconforming uses and ensure future compliance.

On August,9, 2022, The Santa Rosa City Council approved the Santa Rosa Police Department Military Equipment Policy and adopted ordinance 2-38. Military Equipment Use ordinance.

On October 25, 2022, The Santa Rosa City Council approved the purchase of an Armored Rescue Vehicle and amendment of the Santa Rosa Police Department Military Equipment Use Policy which allowed for the purchase of the Armored Rescue Vehicle and language clarification related to the coordination with other jurisdictions.

This report shall serve as the Santa Rosa Police Department's annual Military Equipment report. This report will be made available to the public and posted to our department website. SRPD will host at a minimum one public meeting within 30 days of authoring the report. This report will be brought to the City Council for annual review along with the policy and ordinance. This report and annual review by City Council will occur every subsequent year once the ordinance is adopted. This comprehensive report will include at a minimum the following:

1. A summary of how the military equipment was used and the purpose of its use
2. A summary of any complaints or concerns received concerning the military equipment
3. The results of any internal audits, any information about violations of the military equipment use policy, and any actions taken in response.
4. The total annual cost for each type of military equipment
5. The quantity possessed for each type of military equipment
6. Any additional military equipment including the quantity we intend to purchase the following year

## Summary of Military Equipment

Most equipment deemed military equipment is used solely by our SWAT, Mobile Field Force, Drone, and Hostage Negotiation Teams. The SWAT team trains bi-monthly for a total of approximately 240 training hours per member per year. They receive an additional 24 hours or more of advanced officer training per member every other year. The Hostage Negotiation Team and Drone Team trains monthly for a total of approximately 120 training hours per member per year. The Mobile Field Force Team schedules quarterly trainings for approximately 16-20 hours per member per year. These above trainings are in addition to approximately 80 additional hours of advanced officer training that each officer receives yearly and additional outside training that officers are sent to. Officers have a salary rate between \$44.73-\$57.02 an hour not including additional pay incentives. As a result, actual salary costs per training vary per each individual officer.

Unless otherwise indicated in this report, the funding related to acquisition, maintenance, use and training comes from the Police Department general budget. For Fiscal Year 2022/2023, the police department had a total operating budget of \$68,540,250.


The inventory of military equipment possessed by the Santa Rosa Police department fluctuates due to considerations such as operational usage, training, maintenance, expiration, and replacement guidelines. Below is a list of currently possessed military equipment, which includes the quantity, cost, and any future acquisitions planned.

## 1. 40mm and Projectile Launch Platforms and Kinetic Energy Projectiles

40mm launchers are used by department officers as a less lethal tool to launch kinetic energy projectiles. In SWAT or tactical operations, the launchers may be used to deploy chemical agents. A single shot or multi-shot launcher is capable of firing a variety of 40mm munitions. (40mm launchers are considered “Projectile Launch Platforms” under AB-481).

40mm launchers are capable of firing a variety of munitions with a maximum effective range of one hundred twenty (120) feet. 40mm launchers can deliver munitions in the form of chemical agents, sponge baton rounds, or combined use rounds.

	<p><b>Def Tech – Model 1425</b> (40 mm Single Shot Launcher) (Quantity: See Appendix A)</p> <p>Manufacturer: Defense Technology          Manufacturer Description: <a href="https://www.defense-technology.com/product/40mm-lmt-tactical-single-launcher-expandable-stock/">https://www.defense-technology.com/product/40mm-lmt-tactical-single-launcher-expandable-stock/</a></p>
	<p>Def Tech – Model 1327 (40 mm Single Shot Launcher) (Quantity: See Appendix A)</p> <p>Manufacturer: Defense Technology</p> <p>Manufacturer Description: The 1327 is a 40mm single shot launcher that features an adjustable Integrated</p>

	<p>Front Grip (IFG). The Ambidextrous Lateral Sling Mount (LSM) and QD mounting systems allow both a single- and two-point sling attachment. The 40LMTS will fire standard 40mm Less Lethal ammunition, up to 4.8 inches in cartridge length</p>
	<p>CTS – Model L140 40 mm Single Shot Launcher (Quantity: See Appendix A)</p> <p>Manufacturer: Combined Tactical Systems</p> <p>Manufacturer Description:  <a href="https://www.combinedsystems.com/product/l140-3-single-launcher-collapsible-stock-combo-rail/">https://www.combinedsystems.com/product/l140-3-single-launcher-collapsible-stock-combo-rail/</a></p>
	<p>Defensive Technology – Model 6325 (Sponge Round) (Quantity: See Appendix A)</p> <p>Manufacturer: Defense-Technology</p> <p>Manufacturer Description:  <a href="https://www.defense-technology.com/product/exact-impact-40-mm-standard-range-sponge-round/">https://www.defense-technology.com/product/exact-impact-40-mm-standard-range-sponge-round/</a></p>

40mm/Projectile Launch Weapons and Munitions				
Equipment Name and Manufacturer/Model	Qty.	Initial Cost	Aug. 2022 to June 2023 Purchases/Costs	Estimated 2023 Purchases

<b>40mm Def Tech – Model 1327</b>	<b>2</b>	<b>\$799.00 each</b>	<b>0</b>	<b>0</b>
<b>40mm Def Tech – Model 1425</b>	<b>10</b>	<b>\$799.00 each</b>	<b>0</b>	<b>0</b>
<b>40mm CTS-Model L140</b>	<b>61</b>	<b>\$749.00 each</b>	<b>0</b>	<b>0</b>
<b>40mm Kinetic Projectile-Deftech Sponge Model # 6325</b>	<b>202</b>	<b>\$17.75 each</b>	<b>0</b>	<b>100</b>

<p><b>Usage</b></p>	<p><b>3 Field Deployments</b></p> <ul style="list-style-type: none"> <li>• November of 2022. Dispatched call where subject said they had stabbed someone and had a knife in their hand. Subject refused to drop the knife and walked toward officers telling them to shoot him. 1 40mm sponge rounds was deployed and struck subject in the thigh knocking him to the ground. Subject dropped knife and was taken into custody.</li> <li>• December of 2022. Negligent discharge of a 40mm into the ground while receiving it from another officer during a call for service.</li> <li>• April of 2023. A suspect initially barricaded himself inside of a residence during a search warrant. 1 40mm round was used to break out a window to help in case an entry was needed to be made. Suspect ultimately complied and was taken into custody.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>• SWAT has had over twenty hours of training per officer with the 40 MM less lethal launcher. They utilize a training round that shoots a marking cartridge round and not a sponge round.</li> <li>• Ten officers received one-hour of instruction during new officer orientation.</li> <li>• The Mobile Field Force Team provide a 2-hour training block for 7 members where the deployed 20 Deftech Model 6325 sponge rounds.</li> </ul>
<p><b>Complaints/</b></p>	<p>0 Reported complaints</p>



<b>Violations</b>	
<b>Expenditures for Reporting Period</b>	<b>\$0 not including salary costs. 464 Total Training Hours</b>

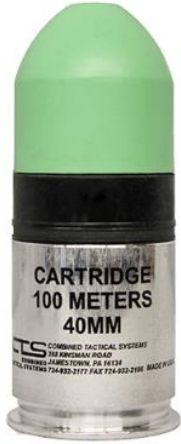
## 2. Chemical Agents Munitions, Diversionsary Devices

Chemical agents are canisters that contain chemical agents that are released when deployed. A distraction device is ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high-risk arrest situations.

Diversionsary Devices are canisters capable of releasing large amounts of stored energy in the form of heat, light, pressure, and noise. They are intended to temporarily distract, confuse, and disorient subjects. They can also be used as “attention-getting” devices.

**The Department currently possesses the following types of diversionsary devices:**

	<p>Combined Systems-CTS 7290 (Quantity: See Appendix A)</p> <p>Manufacturer: Combined Systems-CTS</p> <p>Manufacturer Description:  <a data-bbox="873 1325 1409 1619" href="https://www.combinedsystems.com/product/7290-flash-bang-steel-body-priced-individually-must-order-in-quantities-of-12/#:-:text=7290%20%2DThe%20CTS%207290%20is,million%20candela%20of%20light%20output.">https://www.combinedsystems.com/product/7290-flash-bang-steel-body-priced-individually-must-order-in-quantities-of-12/#:-:text=7290%20%2DThe%20CTS%207290%20is,million%20candela%20of%20light%20output.</a> </p>
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	<p>Combined Systems-CTS 4090 (Quantity: See Appendix A)</p> <p>Manufacturer: Combined Systems-CTS</p> <p>Manufacturer Description: <a href="https://www.combinedsystems.com/product/4090-1-40mm-aerial-flash-bang-100-meter-warning-signal/">https://www.combinedsystems.com/product/4090-1-40mm-aerial-flash-bang-100-meter-warning-signal/</a></p>
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**The Department currently possesses the following types of chemical agents:**

	<p>Combined Systems/CTS – Model 4230 (CS Smoke) (Quantity: See Appendix A)</p> <p>Manufacturer: Combined Systems/CTS</p> <p>Manufacturer Description: A 40MM aluminum cartridge that launches a single projectile round emitting smoke or irritant agents via rapid burning. Used effectively during riots at safe stand-off distances to disperse groups or deny areas.</p>
	<p>Combined Systems/CTS – Model 4233 (CS Smoke) (Quantity: See Appendix A)</p> <p>Manufacturer: Combined Systems/CTS</p> <p>Manufacturer Description: This 40MM aluminum cartridge launches 3 sub-munitions that emit CS via rapid</p>



burning. The munition is used from a stand-off distance, and it is effective to disperse unruly crowds or deny areas during riots and civil disorder.



Combined Systems/CTS – Model 5210 (CS Grenade) (Quantity: See Appendix A)

Manufacturer: Combined Systems/CTS

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



Combined Systems/CTS – Model 5230 (CS Grenade) (Quantity: See Appendix A)

Manufacturer: Combined Systems/CTS

Manufacturer Description: Large diameter burning grenade that discharges a high volume of smoke and chemical agent through multiple emission ports. Specifically for outdoor use and should not be deployed on rooftops, in crawl spaces or indoors due to potential fire hazard. Can be hand thrown or

	<p>launched. Discharge duration can reach up to 40 seconds.</p>
	<p>Combined Systems/CTS – Model 5231 (CS Grenade) (Quantity: See Appendix A)</p> <p>Manufacturer: Combined Systems/CTS</p> <p>Manufacturer Description: CS Triple Phaser canister grenade is a large diameter grenade consisting of 3 separate aluminum canisters pressed together with separate charges between each canister. When deployed, the grenade will separate over a broad space to give a wider area of coverage. Can be launched or thrown.</p>
	<p>Combined Systems/CTS – Model 6330 (CS Grenade) (Quantity: See Appendix A)</p> <p>Manufacturer: Combined Systems/CTS</p> <p>Manufacturer Description: A unique grenade delivering an invisible vapor and rendering an intense respiratory effect. Provides best results when used indoors and requires no personal decontamination.</p>
	<p>Combined Systems/CTS – Model 9230 (CS Grenade, Pyrotechnic) (Quantity: See Appendix A)</p>



Manufacturer: Combined Systems/CTS  
Manufacturer Description: The 9230 CS Jet-Lite Rubber Ball Grenade is one of the smaller diameter burning grenades that discharges a high volume of chemical agents through multiple emission ports. Specifically for outdoor use and should not be deployed from rooftops, in crawl spaces or indoors due to fire producing capability. Can be hand thrown or launched.



Defensive Technology– Model 1032 (CS Grenade) (Quantity: See Appendix A)

Manufacturer: Defense-Technology  
Manufacturer Description:  
<https://www.defense-technology.com/product/flameless-tri-chamber-cs-grenade/>

Defensive Technology – Model 1040 (OC Grenade) (Quantity: See Appendix A)

Manufacturer: Defense-Technology  
Manufacturer Description:  
<https://www.defense-technology.com/product/instantaneous-blast-oc-grenade/>



Defensive Technology – Model 1056 (OC Grenade) (Quantity: See Appendix A)

Manufacturer: Defense-Technology Manufacturer

Description: <https://www.defense-technology.com/product/oc-vapor-aerosol-grenade/>

Defensive Technology – Model 1063 (Smoke Grenade) (Quantity: See Appendix A)

Manufacturer: Defense-Technology Manufacturer Description:

<https://www.defense-technology.com/product/military-style-saf-smoke-grenade/>



Defensive Technology – Model 2262 (CS Barricade) (Quantity: See Appendix A)

Manufacturer: Defense-Technology  
Manufacturer Description:

<https://www.defense-technology.com/product/ferret-40-mm-liquid-barricade-penetrator-round-cs/>



Defensive Technology – Model 3012 (CS Barricade) (Quantity: See Appendix A)

Manufacturer: Defense-Technology  
Manufacturer Description:

<https://www.defense-technology.com/product/ferret-12-gauge-liquid-barricade-round-cs/>



Defensive Technology – Model 56854 (OC Aerosol) (Quantity: See Appendix A)

Manufacturer: Defense-Technology  
Manufacturer Description:

<https://www.defense-technology.com/product/oc-aerosol-grenade-1-3-fogger-6-ounce/>

<b>Chemical/Less Lethal Munitions and Diversionsary Devices</b>				
<b>Equipment Name and Model/Manufacturer</b>	<b>Qty.</b>	<b>Initial Cost</b>	<b>Aug. 2022 to June 2023 Purchases/Costs</b>	<b>Estimated 2023 Purchases</b>
<b>Diversionsary Device- CTS model 4090</b>	<b>9</b>	<b>\$35.00 each</b>	<b>0</b>	<b>0</b>
<b>CS Smoke- CTS- Model 4230</b>	<b>96</b>	<b>\$19.35 each</b>	<b>0</b>	<b>0</b>
<b>CS Smoke Multi-CTS Model 4233</b>	<b>19-MFF 1-SWAT</b>	<b>\$31.26 each</b>	<b>0</b>	<b>0</b>
<b>White Smoke- CTS Model 5210</b>	<b>23</b>	<b>\$33.65 each</b>	<b>0</b>	<b>0</b>
<b>CS Gas-CTS Model 5230</b>	<b>50-MFF 26-SWAT</b>	<b>\$36.40 each</b>	<b>0</b>	<b>40 rounds- SWAT</b>
<b>CS Gas-CTS Model 5231</b>	<b>50</b>	<b>\$39.08 each</b>	<b>0</b>	<b>0</b>
<b>CS Gas- CTS Model 6330</b>	<b>24</b>	<b>\$36.42 each</b>	<b>0</b>	<b>0</b>
<b>Diversionsary Device- CTS Model 7290</b>	<b>15</b>	<b>\$45.00 each</b>	<b>0</b>	<b>40 devices</b>
<b>CS Smoke Hanball- CTS Model 9230</b>	<b>145-MFF 1-SWAT</b>	<b>\$33.54 each</b>	<b>0</b>	<b>0</b>
<b>CS Smoke Grenade- Deftech Model 1032</b>	<b>5</b>	<b>\$31.85 each</b>	<b>0</b>	<b>0</b>
<b>OC Aerosol-Deftech Model 1056</b>	<b>8</b>	<b>\$48.69 each</b>	<b>0</b>	<b>20 devices</b>
<b>Smoke Grenade- Deftech Model 1063</b>	<b>30</b>	<b>\$31.69 each</b>	<b>0</b>	<b>0</b>
<b>CS Barricade- Deftech Model 2262</b>	<b>39</b>	<b>\$24.38 each</b>	<b>0</b>	<b>40 rounds</b>
<b>CS Barricade- Deftech Model 3012</b>	<b>40</b>	<b>\$6.16 each</b>	<b>0</b>	<b>0</b>
<b>OC Aerosol-Deftech Model 56854</b>	<b>8</b>	<b>\$19.63 each</b>	<b>0</b>	<b>20 rounds</b>

\*Numbers are from inventory conducted in May 2023



<b>Usage</b>	<b>Field Deployments-0</b> <b>Training-</b> <ul style="list-style-type: none"> <li>• 2 CTS Model 1032</li> <li>• 11 CTS Model 2262</li> <li>• 2 CTS Model 5210 (Mobile Field Force)</li> <li>• 4 CTS Model 5230</li> <li>• 1 CTS Model 6330 (Mobile Field Force)</li> <li>• 12 CTS Model 7290</li> <li>• 5 Deftech Model 1032</li> <li>• 2 Deftech Model 1056</li> <li>• 2 Deftech Model 56854</li> <li>• The SWAT Team had a <b>10-hour</b> training day for 22 SWAT officers specifically focused on chemical agents and deployment of chemical agents.</li> <li>• The SWAT team sent two SWAT officers to a <b>40-hour</b> chemical agent course Total enrollment and travel costs \$4,040).</li> <li>• The Mobile Field Force Team conducted a <b>1.5 hour</b> chemical agents training and exposure for 36 team members and an additional <b>2 hour</b> training block where smoke was deployed.</li> </ul>
<b>Complaints/Violations</b>	None
<b>Expenditures</b>	<b>Total = \$0</b> not including salary costs <b>426 Training hours</b>

### 3. Command and Control Vehicles-

Completely self-contained command posts designed to provide the Incident Commander with a mobile base of operation. As a mobile base of operation, these vehicles contain specialized command, control, and communications equipment to assist with this mission along with shelter and access to police department database systems.

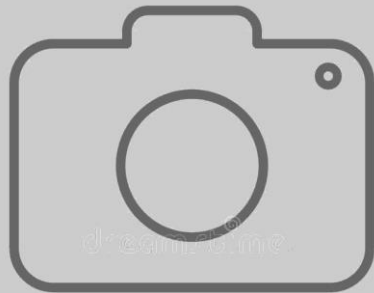
**The Department currently possesses the following Command and Control Vehicles:**



2001 Grumman MT055 Top Star  
(Quantity: See Appendix A)

Manufacturer: Grumman  
Manufacturer Description:  
Manufacturer Description no longer available. Below is a link to a brochure with more detailed vehicle information:

<http://customstepvans.com/wp-content/uploads/2017/01/FCCCmt-45.55-chassisBODYrev2016.pdf>



No image available

Proposed mobile command vehicle purchase

Manufacturer: Unknown Manufacturer will go through the city purchasing process

Manufacturer Description: This is a proposed purchased. The manufacturer is unknown. The general specifications are for a full-size cargo van, high roof, four (4) doors. The rear door must secure to the side of vehicle when fully open). It will include mobile dispatch equipment including computers and radios.

Grant Proposal: A cargo van for a command and control vehicle is being considered via a State of California DHCS CCMU grant. The grant will be documented to show the need, price, and capabilities of the mobile command vehicle. It will be the responsibility of the police department to maintain all maintenance of the

	<p>vehicle if it is acquired. The purchase is not expected to exceed \$305,000. The purchase will primarily be grant funded with the remainder coming from the police department budget. The purchase is expected to occur before the end of 2023.</p>
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<b>Command and Control Vehicles</b>				
<b>Equipment Name and Model/Manufacturer</b>	<b>Qty</b>	<b>Initial Cost</b>	<b>Aug. 2022 to June 2023 Purchases/Costs</b>	<b>Estimated 2023 Purchases</b>
<b>Future command vehicle purchase unknown manufacturer</b>	<b>1</b>	<b>Not expected to exceed \$305,000 (Funding provided by grant)</b>	<b>0</b>	<b>1 vehicle not expected to exceed \$305000</b>
<b>Mobile Command Vehicle 2001 Grumman MT-55 Top Star</b>	<b>1</b>	<b>\$252,881.99</b>	<b>\$5063 yearly-maintenance. Fuel costs fluctuate</b>	<b>Approx. \$5000 in maintenance costs</b>

<b>Usage</b>	None. The vehicle is currently out of service.
<b>Complaints/Violations</b>	0
<b>Expenditures for Reporting Period</b>	<b>Total=\$5,063</b>

#### **4. Long Range Acoustic Device (LRAD)**

The LRAD is a type of loudspeaker system that emits a focused and directional beam of sound. The LRAD can be used as a PA to issue Emergency Evacuation

Orders, communicate with a subject during a law enforcement operation where direct communication is not possible, or to relay directions to a crowd in a noisy environment (unlawful assembly announcements).

	<p>LRAD Model 100X (Quantity: See Appendix A)</p> <p>Manufacturer: Genasys</p> <p>Manufacturer Description: In addition to featuring best-in-class broadcast voice intelligibility, the LRAD 100X is 20 – 30 decibels louder than typical bullhorns and vehicle-based P.A. systems. Live or recorded broadcasts from the portable LRAD 100X are heard above crowd and background noise to ensure every message is clearly delivered.</p>
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Long Range Acoustic Devices				
Equipment Name and Model/Manufacturer	Qty	Initial Cost	Aug. 2022 to June 2023 Purchases/Costs	Estimated 2023 Purchases
Genasys LRAD 100X-MAG Acquired in 2020	1	\$13,595	\$0 including maintenance	\$0

<p><b>Usage</b></p>	<p><b>Field Deployments</b></p> <ul style="list-style-type: none"> <li>11 SWAT Operations for high-risk search and/or arrest warrants. The LRAD was used solely to communicate and provide announcements.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>22 SWAT Officers each received 5 hours training</li> </ul>
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<b>Complaints/Violations</b>	0
<b>Expenditures for Reporting Period</b>	<b>Total=\$0</b> <b>110 Training Hours</b>

## 5. Armored Rescue Vehicles (Bearcat)

A wheeled, armored personnel carrier capable of providing high ballistic protection, cover, limited breaching capability, and transport of officers and/or civilians at critical incidents and high-risk tactical operations. An Armored rescue vehicle can be used to respond to critical incidents to enhance officer and community safety, improve scene containment and stabilization, enhance officers tactical advantage, aid in rescuing injured persons, protect life and property, improve the likelihood that an incident would be resolved without deadly force or other force options, and lead ultimately to a successful conclusion of a critical incident.

	<p>Lenco – 2022 Bearcat G3 (Quantity: See Appendix A)</p> <p>Manufacturer: Lenco  Manufacturer Description: <a href="https://www.lencoarmor.com/model/bearcat-g3-police-government/">https://www.lencoarmor.com/model/bearcat-g3-police-government/</a></p>
	<p>Lenco – 2012 Bearcat G2 (Quantity: See Appendix A)</p> <p>Manufacturer: Lenco</p> <p>Manufacturer Description: <a href="https://www.lencoarmor.com/model/bearcat-g2-police-government/">https://www.lencoarmor.com/model/bearcat-g2-police-government/</a></p>



\*The police department does not own this vehicle but has access through the Sonoma County Sheriff's Office

<b>Armored Rescue Vehicles</b>				
<b>Equipment Name and Model/Manufacturer</b>	<b>Qty</b>	<b>Initial Cost</b>	<b>Aug. 2022 to June 2023 expenses</b>	<b>Estimated 2023 Purchases/ Expenses</b>
<b>2022 Lenco Bearcat G3-Acquired in December of 2022</b>	<b>1</b>	<b>\$355,788</b>	<b>\$355,788 Initial Purchase \$6,671 for maintenance and outfitting \$32,441.64 for a thermal imaging</b>	<b>\$5000 for fuel and maintenance</b>

<b>Usage</b>	<p><b>Field Deployments</b></p> <ul style="list-style-type: none"> <li>• 11 high-risk search warrants and/or suspect apprehensions</li> <li>• 1 barricaded subject</li> <li>• 2 community events (Leadership Santa Rosa and Community Police Experience)</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>• Approximately 32-hours per SWAT team member</li> <li>• An additional 24-hour per SWAT team member advanced training is planned in June</li> </ul>
<b>Complaints/Violations</b>	0
<b>Expenditures for Reporting Period</b>	A 2022 Lenco Bearcat received City Council approval for purchase in October. The initial purchase of the armored

	<p>rescue vehicle was made using asset forfeiture funds. Maintenance costs and associated future costs for the above item comes from the Santa Rosa Police Department general budget for 2022-2023. The total maintenance for this reporting period for the 2022 Bearcat was \$6,671.00. Part of these costs include outfitting the Bearcat after the initial purchase. An additional \$32,441.64 was incurred to purchase a thermal camera to outfit the Bearcat.</p> <p><b>Total=\$394,900.64</b></p> <p><b>704 Total Training hours</b></p>
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In October of 2022, the Santa Rosa City Council approved the purchase of the 2022 Lenco Bearcat G3 and the amendment to the Military Equipment Policy to allow for its purchase. The item was purchased from Lenco for a cost of \$355,788 and delivered to the Santa Rosa Police Department in December of 2022



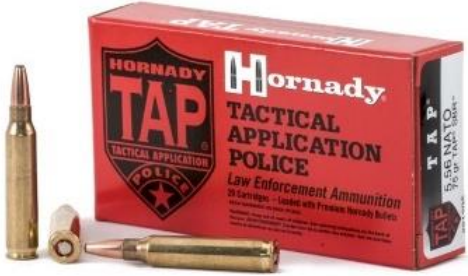
The department recently completed a purchase for a thermal imaging camera to the armored rescue vehicle in 2023. A thermal imaging camera allows officers to see in low-light settings and can aid in area searches, suspect apprehensions as well as surveillance. The total cost was \$32,441.64. As of the date of this report the item is still in the process of being delivered.

**6. Specialized Firearms and Ammunition of less than .50 caliber, including Assault Weapons –**

**i. Specialized AR-15 Style Rifles and Ammunition –**

Specialized shoulder-fired long gun that fires a rifle caliber cartridge possessed by the SWAT team. The Department-approved AR-15 style weapon system is designed to fire a .223/5.56 caliber projectile. The barrel length of these rifles is less than 16 inches. These specialized rifles offer the ability to engage hostile suspects at distances generally greater than the effective distance of handguns. Additionally, AR-15 rifles offer advantages over handguns, such as increased accuracy potential and the ability to defeat soft body armor but are not appropriate for every situation.




The Department currently possesses the following types of AR15 Style Rifles:

	<p>FN American FN15 14.5" 5.56mm rifle (Quantity: See Appendix A)</p> <p>Manufacturer: Name of FN  Manufacturer Description:  <a href="https://fnamerica.com/rifles/fn-15-series/">https://fnamerica.com/rifles/fn-15-series/</a></p>
	<p>Sig Sauer 516 5.56 mm rifle (Quantity: See Appendix A)</p> <p>Manufacturer: Sig Sauer  Manufacturer Description:  <a href="https://www.sigsauer.com/media/sigsauer/resources/SIG516_Gen2.pdf">https://www.sigsauer.com/media/sigsauer/resources/SIG516_Gen2.pdf</a></p>
	<p>Hornady SBR Tap 5.56mm ammunition</p> <p>Manufacturer: Hornady  Manufacturer Description:  <a href="https://www.hornadyle.com/rifle-ammunition/75-gr-tap-sbr#!/">https://www.hornadyle.com/rifle-ammunition/75-gr-tap-sbr#!/</a></p>

**ii. 308 Caliber Rifles and Ammunition-** A shoulder-fired rifle with precision optics that fires a .308 Winchester cartridge. The .308 rifle provides SWAT Snipers the ability to engage hostile suspects at great distances with accuracy. The .308 rifle platform allows for precision rifle fire to be delivered at a faster rate than a bolt action Sniper Rifle.

**The Department currently possesses the following types of .308 Rifles:**




	<p>Tikka .308 Rifle – T3x Tact A1 (Quantity: See Appendix A)</p> <p>Manufacturer: Tikka .308 rifle  Manufacturer Description:  <a href="https://www.tikka.fi/en-us/rifles/tikka-t3x/t3x-tact-a1">https://www.tikka.fi/en-us/rifles/tikka-t3x/t3x-tact-a1</a></p>
	<p>Hornady – 168 grain ELD match ammunition (Quantity: See Appendix A)</p> <p>Manufacturer: Hornady .308 ammunition  Manufacturer Description:  <a href="https://www.hornady.com/ammunition/rifle/308-win-168-gr-eld-match#!/">https://www.hornady.com/ammunition/rifle/308-win-168-gr-eld-match#!/</a></p>
	<p>Hornady- 165 grain Heavy Barrier Ammunition</p> <p>Manufacturer: Hornady .308 ammunition-Heavy Barrier  Manufacturer Description:  <a href="https://www.hornadyle.com/rifle-ammunition/165-gr-gmx-tap-heavy-barrier#!/">https://www.hornadyle.com/rifle-ammunition/165-gr-gmx-tap-heavy-barrier#!/</a></p>

iii. **Submachine gun** – A magazine-fed carbine designed to fire handgun cartridges

	<p>H&amp;K MP 5 9mm (Quantity: See Appendix A)</p> <p>Manufacturer: Heckler and Koch 9mm</p>
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	submachine gun Manufacturer Description: <a href="https://hk-usa.com/hk-models/mp5-2/">https://hk-usa.com/hk-models/mp5-2/</a>
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- iv. **Launching Cartridges-** The launching cartridge incorporates an opaque shell and utilizes black powder as the propellant. It has the ability to be used alone as a muzzle bang for crowd management or for propelling grenades when using the 1370 launching cup.

	Defense Technology –Model 1210 (Launching Round) (Quantity: See Appendix A)  Manufacturer: Defense Technology Manufacturer Description: <a href="https://www.defense-technology.com/product/12-gauge-muzzle-bang-launching-cartridge-round/">https://www.defense-technology.com/product/12-gauge-muzzle-bang-launching-cartridge-round/</a>
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Specialized Firearms and Ammunition less than .50 cal				
Equipment Name and Model/Manufacturer	Qty	Initial Cost	Aug 2022 - June 2023 expenses	Estimated 2023 Purchases/ Expenses
.308 rifle-SAKO Limited Tikka T3X A1	4	\$1,425.00	\$0	0
.308 Hornady Ammunition 168 grain ELD Match	600	\$19.50 per case of 20	\$0	1500 Rounds
.308 Hornady Ammunition 165 grain heavy barrier	160	\$1.81 per round	\$0	0
5.56mm rifles -FN American FN15 14.5”	19	\$823.00	\$0	8- FN15 14.5” Rifle Approx.

				<b>\$10,000</b>
<b>5.56mm rifles-Sig Sauer Sig 516 10 »</b>	<b>17</b>	<b>\$1,225.00</b>	<b>\$0</b>	<b>0</b>
<b>5.56mm ammunition-Hornady SBR Tap 5.56mm</b>	<b>2000 rounds approx.</b>	<b>\$13.50 per case of 20</b>	<b>\$0</b>	<b>2000 Rounds</b>
<b>Subcompact Machine gun- H&amp;K MP 5 9mm</b>	<b>2</b>	<b>Estimated \$5,000</b>	<b>\$0</b>	<b>0</b>
<b>12 Gauge Launching Cartridge-Deftech Model 1210</b>	<b>100</b>	<b>\$7.13</b>	<b>\$0</b>	<b>0</b>

<b>Usage</b>	<p><b>Field Deployments</b></p> <ul style="list-style-type: none"> <li>• FN15 Rifles-11 high-risk search warrants and arrests. 0 rounds fired</li> <li>• 0 Deployments Sig Sauer, H&amp;K MP5, SAKO Limited Tikka</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>• FN15 Rifles-1300 total hours (1200 rounds SBR Tap) among 22 SWAT team members</li> <li>• SAKO Limited Taka-280 total hours, 70 hours per Sniper (1200 rounds Hornady 168 grain)</li> <li>• H&amp;K MP5 and Sig Sauer 516-0 hours of training</li> </ul>
<b>Complaints/Violations</b>	No complaints or violations
<b>Expenditures for Reporting Period</b>	<b>Total = \$0</b> <b>1580 Total Training Hours</b>

**v. Breaching Apparatuses**

**Specialized Shotguns and Ammunition** - During crisis situations, it may become necessary for a SWAT team to facilitate an entry into a target location. It is critical the point of entry is breached quickly and as safely as possible. A quick and effective breach is one key to a successful tactical mission. In some instances, a breach

initiated by a breaching shotgun loaded with specialized breaching rounds may be required to provide an added degree of safety and tactical advantage in order to accomplish a mission. Specialized Breaching Rounds are frangible and are designed to break into a powder form upon impact with a solid object (i.e., dead bolt lock, door frame, etc.) The Department possesses a limited inventory of Breaching Shotguns Ammunition which is to be used exclusively by trained members of the SWAT Team.

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

	<p>Royal Arms TESC365 grain-shotgun breaching rounds (Quantity: 33)</p> <p>Manufacturer: Royal Arms          Manufacturer Description: <a href="https://royalarms.com/shop/tesc3-frangible-breaching-ammo/">https://royalarms.com/shop/tesc3-frangible-breaching-ammo/</a></p>
	<p>KBT (Planned Purchase)</p> <p>Manufacturer: Aardvark          Manufacturer Description: <a href="https://aardvarktactical.com/kbt/">https://aardvarktactical.com/kbt/</a></p>

Explosive Breaching				
Equipment Name and Model/Manufacturer	Qty.	Initial Cost	Aug. 2022 - June 2023 Expenses	Estimated 2023 Purchases/ Expenses
Shotgun breaching rounds Royal Arms TESC365 grain-	33	\$112.50 per case of 25	\$0	0
KBT-Kinetic Breaching Tool	0	N/A	0	Approx. \$13,000

<b>Usage</b>	0 Deployments
<b>Complaints/Violations</b>	None
<b>Expenditures for Reporting Period</b>	0

Dependent on financial and organizational needs, the department is exploring the purchase of a kinetic breaching tool. This tool allows officers to breach doors by using .45 caliber firearm blanks to deliver up to 850ft lbs. of force. It is beneficial in instance where one or multiple doors need to be breached quickly and effectively such as an active shooter incident.

vi. **Unmanned Aerial and Tracked Systems-**

**i. Unmanned Aerial Systems.** An unmanned aircraft of any type that is capable of sustaining directed flight, whether pre-programmed or remotely controlled, and all of the supporting or attached systems designed for gathering information through imaging, recording or by any other means.

**The Department currently possesses the following types of UAS:**



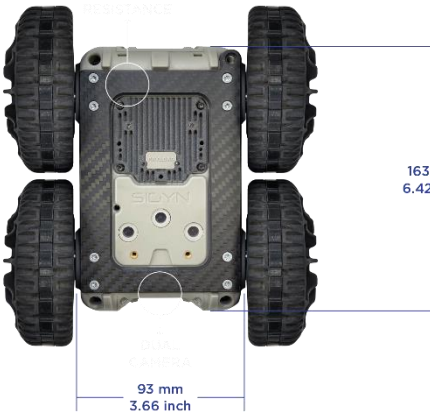
	<p>DJI – Matrice 210 UAS (Quantity: See Appendix A)</p> <p>Manufacturer: DJI  Manufacturer Description:  <a href="https://www.dji.com/matrice-200-series">https://www.dji.com/matrice-200-series</a></p>
	<p>DJI – Mavic 2 Enterprise UAS (Quantity: See Appendix A)</p> <p>Manufacturer: DJI  Manufacturer Description:  <a href="https://www.dji.com/mavic-2-enterprise">https://www.dji.com/mavic-2-enterprise</a></p>
	<p>DJI – Mavic Pro UAS (Quantity: See Appendix A)</p>

	<p>Appendix A)</p> <p>Manufacturer: DJI  Manufacturer Description:  <a href="https://www.dji.com/mavic">https://www.dji.com/mavic</a></p>
	<p>DJI Phantom 4 UAS (Quantity: See Appendix A)</p> <p>Manufacturer: DJI  Manufacturer Description:  <a href="https://www.dji.com/phantom-4">https://www.dji.com/phantom-4</a></p>
	<p>Autel EVO II (Quantity: See Appendix A)</p> <p>Manufacturer: Autel  Manufacturer Description:  <a href="https://auteldrones.com/collections/evo-ii">https://auteldrones.com/collections/evo-ii</a></p>
	<p>Loki MKII- (Quantity: See Appendix A)</p> <p>Manufacturer: Loki/Aardvark  Manufacturer Description:  <a href="https://loki.aardvarktactical.com/">https://loki.aardvarktactical.com/</a></p>

**ii. Unmanned Tracked Robots-** An unmanned tracked robot of any type that is capable of being remotely controlled as well as all of the supporting or attached systems designed for gathering information through imaging, recording or by any other means.

**The Department currently possesses the following types of unmanned tracked robots:**

	<p>Robotex Avatar III (Quantity: See Appendix A)</p>
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	<p>Manufacturer: Robotex  Manufacturer Description:  <a href="https://robotex.com/products/avatar-eod-robot/">https://robotex.com/products/avatar-eod-robot/</a></p>
	<p>Fotokite Sigma Mobile  Manufacturer: Fotokite  Manufacturer Description:  <a href="https://fotokite.com/situational-awareness-system/">https://fotokite.com/situational-awareness-system/</a></p>
	<p>Skyhero Sigyn MK1  (Planned Purchase)  Manufacturer: Aardvark  Manufacturer Description:  <a href="https://loki.aardvarktactical.com/sigyn/">https://loki.aardvarktactical.com/sigyn/</a></p>

Unmanned Aircraft/Tracked Robot System (sUAS)				
Equipment Name and Model/Manufacturer	Qty	Initial Cost	Aug. 2022 -June 2023 expenses	Estimated 2023 Purchases/ Expenses
Drone-DJI Phantom 4 Pro	1	\$1,999.00	\$999.8	\$0
Drone-DJI Mavic Pro	1	\$1,433.00	\$0	\$0
Drone-DJI Mavic 2	5	\$1,749.00	\$544.32	\$0
Drone-DJI Matrice 210	1	\$24,506.59	\$	\$0

<b>Drone-Autel EVO II</b>	<b>2</b>	<b>\$8,700.00</b>	<b>\$35.00</b>	<b>8 Autel EVOII @ \$4300.00 each (1 Autel is estimated to cost \$10,500 due to the addition of an infrared package)</b>
<b>Drone-Loki MKII</b>	<b>1</b>	<b>\$13,709.4 (Crime mitigation funds)</b>	<b>\$13,709.40</b>	<b>\$0</b>
<b>Robot-Robotex Avatar III</b>	<b>1</b>	<b>\$54,244.4 (Funded by UASI grant)</b>	<b>\$ 0</b>	<b>\$0- Company is out of business and robot is no longer supported- see below replacement</b>
<b>Tethered Drone-Fotokite</b>	<b>1</b>	<b>Approx. \$70,000</b>	<b>0</b>	<b>Will include drone and video storage subscription service.</b>
<b>Skyhero Sigyn MK1</b>	<b>1-Future Purchase</b>	<b>Approx. \$10,000</b>	<b>\$0</b>	<b>1 Robot- The current Robotex Avatar robot is non-functional. This is a suggested replacement.</b>

<b>Usage</b>	<p><b>Field Deployments-Drones</b></p> <ul style="list-style-type: none"> <li>• Total number of flights 165</li> <li>• Total flights for search warrants- 16</li> <li>• Total flights for missing persons- 9</li> <li>• Total flights for criminal suspect apprehension- 20</li> <li>• Total flights for crime scene/ vehicle accidents- 41</li> <li>• Total training flights- 66</li> <li>• Total demonstration flights- 6</li> </ul>
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	<ul style="list-style-type: none"> <li>Total number of interior drone deployments during SWAT high-risk search warrants- 7</li> </ul> <p><b>Training- Drones-</b></p> <ul style="list-style-type: none"> <li>222 total hours among 16 drone operators (does not include interior drone)</li> <li>Interior Drone- 6 hours of training per SWAT operator an additional 20-hour course for 1 SWAT operator</li> </ul> <p><b>Field Deployment Robots</b></p> <ul style="list-style-type: none"> <li>Total number of deployments during SWAT high-risk search warrants-5 (No longer functional)</li> </ul>
<b>Complaints/Violations</b>	No complaints or violations
<b>Expenditures for Reporting Period</b>	<p><b>Drones</b></p> <p>Phantom 4- \$49.99-rapid battery charger</p> <p>Phantom 4- \$144.30-battery pack chargers and pouches</p> <p>Phantom 4- \$805.51-4 batteries</p> <p>DJI Mavic 2- \$544.32-3 drone batteries</p> <p>Autel EVO II-\$35.00- Propeller guards</p> <p>Safety Drone Subscription Service-\$800</p> <p>The above items were purchased using the police department field services division budget.</p> <p>Loki MKII Interior Drone-\$13,709.40-drone purchase</p> <p>Interior Drone Training Class- \$693.00</p> <p><b>Total=\$15,981.52</b></p> <p><b>374 Total Training Hours</b></p>

The Santa Rosa Police Department is planning to purchase 8 Autel EVO II drones. These drones will replace the drones produced by DJI. DJI drones are foreign products that are imported into the United States. Several security concerns have recently been raised regarding the domestic use of them. If funding for these drones is unavailable due to operational costs, the purchases of all or some of the drones will be delayed. One of the drones will be outfitted with an infrared bundle (FLIR) to replace the DJI Matrice 210. The infrared bundle will allow the drone to operate more efficiently in low-light settings.

Additionally, the Santa Rosa Police Department desires to purchase a Fotokite tethered drone. This drone would be used for large-scale events and during incidents such as

natural disasters to provide situational awareness. Unlike regular drones, tethered drones do not need to be piloted and are physically connected to a power and communication source to provide ongoing runtime and uninterrupted communications.

The purchase of the Skyhero Sigyn MK1 robot would be as a replacement to the Robotex Avatar. Due to the Avatar no longer being functional, SWAT does not have a working robot. A robot would allow SWAT to see real time video of an unsearched area without an officer making an entry; this decreases the risk of being involved in a violent confrontation.

## Tactical Team Deployment

As noted throughout this report, many of the military equipment items were used or deployed during SWAT team operations. Below is a synopsis of the 11 separate SWAT deployments that occurred during this reporting period:

- August 2022-SWAT search warrant for a shooting and robbery suspect where the victim was shot and suffered a life-threatening injury
- September 2022-SWAT search warrant for a shooting suspect where victim was shot and suffered life threatening injuries
- November 2022-SWAT arrest of a suspect in a robbery/shooting. The incident occurred in October where two victims were shot. The suspect was apprehended in a vehicle stop conducted by the SWAT team.
- December 2022- SWAT Search Warrant and suspect apprehension for a gang related shooting
- January 2023-SWAT Search warrant for suspects involved in illegal firearm sales
- January 2023-SWAT Search warrant for a shooting suspect that occurred in January.
- February 2023-3 -separate SWAT Search warrant for a homicide involving a knife and a separate shooting where victims suffered life threatening injuries. a separate victim was shot in February. Suspect had prior gang and violent crime history.
- March 2023- SWAT search warrant in Windsor, CA related to a homicide where a knife was used and a separate shooting occurred.
- April 2023-SWAT search warrant for a bank robbery suspect where suspect threatened to shoot the teller. Suspect had a lengthy violent criminal history.

## Complaints and Questions Regarding Military Equipment Usage

The Santa Rosa Police Department takes all complaints seriously regarding the service provided by the department and the conduct of its employees. Information on how to make a complaint can be found at [SRCity.org/2443/File-a-Complaint](https://www.srcity.org/2443/File-a-Complaint). Questions related to military equipment may be sent to [AB481@srcity.org](mailto:AB481@srcity.org). Additionally, below is a link to the Santa Rosa Police Department policy manual which includes the military equipment policy:

[https://www.srcity.org/DocumentCenter/View/37499/Santa\\_Rosa\\_PD\\_Policy\\_Manual-Dec-2022?bidId=](https://www.srcity.org/DocumentCenter/View/37499/Santa_Rosa_PD_Policy_Manual-Dec-2022?bidId=)