



Commitment to  
Community

**NAPA COUNTY OFFICE OF SHERIFF-CORONER**

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# **Napa County Sheriff**

## **AB 481 Equipment Report**

### **April 2022**



# NAPA COUNTY OFFICE OF SHERIFF-CORONER

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## Considerations:

The AB481-reportable equipment inventory sheets contained within this document were compiled near year-end 2021 and new-year 2022.

With respect to costs, funding, annual upkeep expenses and estimated effective lifespan, every effort has been made to be as accurate as possible while at the same time acknowledging that many factors directly affecting those aforementioned values are unpredictable.

Costs associated with the following items represent the best estimates at the time this document was prepared. Many of these items are not purchased from manufacturers, but from dealers, who adjust costs in accordance with market factors beyond the predictive abilities or control of Napa SO.

Due to the unpredictable nature of the law enforcement profession, many of the item estimated upkeep costs and effective lifespans are best estimates and may vary greatly on a year-to-year basis, due to the availability of training, type of operational incidents or other factors.

“Annual Allocation” refers to the quantity needed “on hand” over the course of a calendar year to meet all reasonably-anticipated operational and training needs. Some items may be carried over in inventory year to year depending on operational/training tempo.

With respect to terminology, “expendable equipment” items are items that typically have a one-time use and then cannot be used again, such as chemical agents or smoke grenades.

In an effort to be as efficient as possible, many items, both “expendable” and otherwise have operational applications across a diverse set of the Sheriff’s Office missions. For example, “40mm launcher (single and multi-shot capability)” is an item that is utilized by Patrol, SWAT, Mobile Field Force and other auxiliary assignments. The cost and unit allocation estimates that state “across all divisions” represents the best estimation of the requirements for those items to fill all needs for the Sheriff’s Office.

Additionally, there are costs for non-AB481 equipment that are intrinsically tied to the costs for the following items. For example, slings, carrying cases, magazines, sighting systems, flashlights, cleaning supplies, batteries and other non-AB481 reportable items are not included in the cost estimations, unit allocation or upkeep portions of this report.



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It should also be noted that the legislature has designated these items as “military equipment”. While the military may use some of the same equipment, the Sheriff’s Office (SO) deems all of this equipment as law enforcement equipment. Much the same as the military using handcuffs, there are items in common. The manner and reason they are used is significantly different.

For many years, this office has also displayed and offered education about our equipment and why we use it. The vast majority of equipment on this list was approved for funding through the County of Napa. From our Citizen’s Academy to National Night Out, we have always been open for discussion and education.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **12-Gauge Muzzle Bang/Launching Cartridge (1370 Launching Cup)**

#### Description:

The 12-Gauge Muzzle Bang / 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 during riotous behavior as well as tactical deployment situations against or for propelling grenades (Chemical Agent/Smoke) when using the 1370 Launching Cup.

#### Purpose & Use:

The 12-Gauge Muzzle Bang / Launching Cartridge used alone produces 170 dB of sound output. It is designed to be aimed at the floor or wall at a 45° angle. This round should not be direct fired at personnel. It is used as a crowd management tool in crowd control situations as a means of warning, intimidation or diversion. It may be deployed in the air over crowds or to the side for dissuading movement in a given direction. It may also be deployed to the far side of buildings to divert the attention away from an approach or entry. We have this equipment for a worst case scenario when lives or property is threatened by hostile intentions.

Launching Cartridge application: The 12-Gauge Muzzle Bang / Launching Cartridge used in conjunction with the 1370 Launching Cup provides the operator with the ability of projecting the Pocket Tactical family of hand delivered grenades. The use of the Launching Cup will project the grenades further than can be hand delivered. This increases the distance between law enforcement and crowds, reducing the chance for injuries to both parties.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$7/ea. Annual estimated training and operational allocation of approximately 300 units.

#### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use the 12-Gauge Muzzle Bang / Launching Cartridge.

#### Compliance Protocols:

Use of the 12-Gauge Muzzle Bang / Launching Cartridge shall conform to all relevant SO policies, including but not limited to SO Policy 302.9, 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

#### Public complaint procedures:

SO Department Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **40 mm launcher (single and multi-shot capability)**

#### Description:

The 40 mm less lethal launcher is device that has the ability to shoot multiple types of 40 mm projectiles.

#### Purpose & Use:

A 40 mm launcher is used to deploy less lethal munitions and chemical agents for a variety of missions. Specifically, this launcher has been used effectively to stop aggression from lethal force, open windows for viewing, and de-escalate situations.

#### Cost & Quantity Allocation:

This piece of equipment has no unique or temporary funding source. Unit cost of \$800. Annual estimated training and operational allocation of approximately 30 units across all divisions. Estimated effective lifespan 10+ years.

#### SWAT procedural rules that govern use:

The 40 mm launcher shall be used by SWAT team members under the direction of the SWAT team Commander.

#### Training Requirements:

Must complete annual SWAT firearms qualification and regularly required refresher training.

#### Compliance Protocols:

Use of the 40 mm launcher shall conform to all relevant SO policies, including but not limited to SO Policy 300,302,303,305,404, as well as all local, state and federal use of force laws.

#### Public complaint procedures:

SO Department Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **40MM Muzzle Blast Round**

#### Description:

The 40mm Muzzle Blast Rounds incorporate an aluminum shell and utilize smokeless powder as the propellant. The 40mm Muzzle Blast Rounds are designed to deliver chemical agents in the immediate area (30 feet) of the grenadier. The 40mm Muzzle Blast Round is available in OC (Oleoresin Capsicum) or CS (Chlorobenzylidenemalononitrile). 40mm Muzzle Blast is deployed from a 40mm launcher.

#### Purpose & Use:

The 40mm Muzzle Blast Rounds are normally used as a crowd management solution for the immediate and close deployment of chemical agent in crowd control management during riotous behavior. However, it has proven successful during tactical operations. As a pain compliance round for riot management, the 40mm Muzzle Blast Rounds are a device for deploying chemical laden powder at close ranges for indoor or outdoor operations. The 40mm Muzzle Blast provides instantaneous emission of chemical agent directly at or on riotous, non-compliant subjects close to the police line or within confined spaces. As a tactical round, the Muzzle Blast Rounds have been used in operations such as barricaded subjects, room clearing, space denial, and a means of contaminating crawl spaces and attics. The purpose of the Muzzle Blast Round is to minimize the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$28.00. Annual estimated training and operational allocation of approximately 10 units.

#### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use the 40mm Muzzle Blast Rounds.

#### Compliance Protocols:

Use of the 40mm Muzzle Blast Rounds shall conform to all relevant NSO policies, including but not limited to NSO Policy 404, 407 and 431. Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

#### Public complaint procedures:

Napa SO Department Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **NONEL (NONELECTIC DELAY DETONTOR) –Various lengths of orange shock tube**

#### **Description:**

NONEL nonelectric delay detonator consist of a length of orange shock tube with a High Strength detonator attached to one end. They are available in various lengths.

#### **Purpose & Use:**

Nonel is an energetic material component in explosive breaching charge construction. Explosive breaching is surgical and often offers a safer method of opening doors. Specifically, some doors are unable to be opened by mechanical breaching in a timely manner putting a greater risk to loss of life.

#### **Cost & Quantity Allocation:**

This expendable equipment has no unique or temporary funding source. Unit cost of \$10/ea. Annual estimated training and operational allocation of approximately 700 units across all divisions.

#### **SWAT procedural rules that govern use:**

Nonel shall be handled only by Explosive Breaching trained deputies or under their direct supervision and direction while constructing explosive breaching charges. Grain weights, measurement lengths and all calculations shall be verified by a trained Explosive Breacher. All Nonel shall be stored in compliance with ATF regulations and handled in accordance with best practices as established by Explosive Breaching training standards.

#### **Training Requirements:**

Deputies must successfully complete FETT Basic/Intermediate or higher-level Explosive Breacher Course. Must complete required FETT Explosive Breacher re-certification courses at regularly required intervals.

Must maintain compliance with local, state and federal storage, transportation and handling regulations.

#### **Compliance Protocols:**

Use of Nonel as part of SWAT Operations shall conform to all relevant NSO policies, including but not limited to SO Policy 404, 407, 408 as well as all local, state and federal use of force legislation.

#### **Public complaint procedures:**

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Armor Piercing (AP) projectiles (various calibers)**

#### Description:

AP rounds is designed to penetrate through hardened material that other rounds are unable to.

#### Purpose & Use:

For the designated marksman (DM) to have the capability to stop various types of vehicles and penetrate harden objects.

#### Cost & Quantity Allocation:

This expendable piece of equipment has no unique or temporary funding source. Unit cost of \$2.50/round. Annual estimated training and operational allocation of approximately 500 units.

#### SWAT procedural rules that govern use:

AP rounds shall be used by SWAT team members under the direction of the SWAT team Commander.

Use of AP rounds shall conform to all relevant local, state and federal use of force legislation.

#### Training Requirements:

Must complete annual SWAT rifle qualification and regularly required firearms training.

#### Compliance Protocols:

Use of the AP round shall conform to all relevant NSO policies, including but not limited to SO Policy 305,404

#### Public complaint procedures:

Napa SO Policy Number 1009 shall apply to all personnel complaints.





## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **BALLISTIC BREACHING ROUND (HOLLOW POINT CUTTER ROUND)**

#### Description:

The Ballistic Breaching Cutter Round is designed to work in correlation with a Ballistic Breaching Shot gun. The Ballistic Breaching Cutter Round is encased in a 12-gauge shotgun casing and usually consists of a hardened steel slug.

#### Purpose & Use:

A Ballistic Breaching Cutter Round is a shotgun shell specially made to be fired through hardened barriers, cut through concrete re-bar, penetrate security glass, car doors and punch into automotive engine blocks. These rounds may be used when the option of mechanical breaching would be ineffective.

#### Cost & Quantity Allocation:

This expendable piece of equipment has no unique or temporary funding source. Unit cost of \$30/box. Annual estimated training and operational allocation of approximately 5 units.

#### SWAT procedural rules that govern use:

The Ballistic Breaching Cutter Round shall be handled only by ballistic breaching trained deputies or under their direct supervision and direction. The firearm shall be handled in accordance with best practices as established by ballistic breaching standards.

#### Training Requirements:

Deputies must successfully complete a basic or higher-level Ballistic Breaching Course taught by an appropriate training company.

Must maintain compliance with local, state and federal use of force requirements.

#### Compliance Protocols:

Use of the Ballistic Breaching Round or Slug as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407, 408.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **BALLISTIC BREACHING ROUND (various material components)**

#### Description:

The Ballistic Breaching Round is designed to work in correlation with a Ballistic Breaching Shotgun. The Ballistic Breaching Round is encased in a 12-gauge shotgun casing and usually consists a variety of different materials allows for versatility of use based on target analysis.

#### Purpose & Use:

When properly utilized for a ballistic breaching task, it is designed to impact and structurally weaken the object it hits (thereby weakening the structure enough to allow successful tactical breaching) and then disperse into a relatively harmless powder. This round is used as an option to optimize mechanical breaching depending on the construction of the door.

#### Cost & Quantity Allocation:

This expendable piece of equipment has no unique or temporary funding source. Unit cost of \$25/box. Annual estimated training and operational allocation of approximately 10 units.

#### SWAT procedural rules that govern use:

The Ballistic Breaching Round or Slug shall be handled only by ballistic breaching trained deputies or under their direct supervision and direction. They shall be handled in accordance with best practices as established by ballistic breaching standards.

#### Training Requirements:

Deputies must successfully complete a basic or higher-level Ballistic Breaching Course. Must maintain compliance with local, state and federal use of force requirements.

#### Compliance Protocols:

Use of the Ballistic Breaching Round or Slug as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407, 408.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



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## **BALLISTIC BREACHING SHOTGUN**

### Description:

A short-barrel pistol-gripped 12-gauge pump action shotgun that has been modified to best perform ballistic breaching tasks. The breaching shotgun is designed to work in correlation with specific breaching rounds or slugs.

### Purpose & Use:

When it is properly employed, a breaching shotgun can provide teams with safe and fast door breaching. Ballistic breach may also be employed to breach non-traditional barriers. This shotgun offers a reliable platform for entry into denied areas when unknown doors or barriers are encountered. It can also be used in a planned event when the construction of the door requires more than mechanical breaching.

### Cost & Quantity Allocation:

This piece of equipment has no unique or temporary funding source. Unit cost of \$800/ea. Annual estimated training and operational allocation of approximately 2 units. Annual estimated upkeep costs dependent on rounds fired and preventative maintenance. Estimated effective lifespan 10+ years.

### SWAT procedural rules that govern use:

The Breaching Shotgun shall be handled only by ballistic breaching trained deputies or under their direct supervision and direction. The firearm shall be handled in accordance with best practices as established by ballistic breaching standards.

### Training Requirements:

Deputies must successfully complete a basic or higher-level Ballistic Breaching Course and receive regular refresher training.

Must maintain compliance with local, state and federal use of force requirements.

### Compliance Protocols:

Use of the Ballistic Breaching Shotgun as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407, 408.

### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



# NAPA COUNTY OFFICE OF SHERIFF-CORONER

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## **12-Gauge-Drag-Stabilized Munition**

### Description:

The 12-Gauge Drag Stabilized Munition is comprised of a translucent 12-Gauge shell loaded with a 40 gram, tear shaped bag made from a cotton and ballistic material blend and filled with #9 shot. The rounds are also available as green marking powder.

### Purpose & Use:

12-Gauge Drag Stabilized Munition is a point-of-aim, point-of-impact, direct-fire munition that is most commonly used in situations where greater accuracy and deliverable energy is desired for the incapacitation of an aggressive, non-complaint subject at longer distances. These are considered Less Lethal Impact Munitions (LLIM). The munition is deployed from a designated and clearly marked less lethal 12-gauge shotgun.

### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$7.00. Annual estimated training and operational allocation of approximately 250 units.

### Training Requirements:

Deputies must successfully complete department-approved training to be able to use 12-Gauge Drag Stabilized Munitions.

### Compliance Protocols:

Use of 12-Gauge Drag Stabilized Munitions shall conform to all relevant SO policies, including but not limited to SO Policy 302.9, 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Chemical Agents- handheld delivered grenade devices**

#### Description:

The Chemical Agents handheld grenade devices utilizes an M201A1 Fuze with enclosed canister that come in a variety of sizes, configurations and irritant payloads. In the OC (Oleoresin Capsicum) or CS (Chlorobenzylidenemalononitrile) configurations, pelletized chemical agent is discharged through a gas port(s) from the canister.

#### Purpose & Use:

Chemical Agents handheld grenade devices can be used to conceal tactical movement. They can be used in crowd control management during riotous behavior as well as tactical deployment situations to detect and/or dislodge barricaded subjects. The purpose of Chemical Agents handheld grenade devices is to minimize the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects. The different configurations allows for indoor or outdoor deployments.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$45. Annual estimated training and operational allocation of approximately 15 units.

#### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use Chemical Agents handheld grenade devices.

#### Compliance Protocols:

Use of Chemical Agents handheld grenade devices shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **DETONATING CORD (DET CORD) (AKA – PRIMACORD) –Various grain weights per linear foot**

#### Description:

PRIMACORD detonating cords (Det Cord) are flexible linear explosives with a core of PETN explosive encased in a textile outer jacket. They are available in various grain weights per linear foot.

#### Purpose & Use:

PRIMACORD is an energetic material component in explosive breaching charge construction. Explosive breaching is surgical and often offers a safer method of opening doors. Specifically, many commercial doors are unable to be opened by mechanical breaching in a timely manner putting a greater risk to loss of life.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$0.60/linear foot. Annual estimated training and operational allocation of approximately 4000 linear feet across all divisions.

#### SWAT procedural rules that govern use:

Det Cord shall be handled only by Explosive Breaching trained deputies or under their direct supervision and direction while constructing explosive breaching charges. Grain weights, measurement lengths and all calculations shall be verified by a trained Explosive Breacher. All Det Cord shall be stored in compliance with ATF regulations and handled in accordance with best practices as established by Explosive Breaching training standards.

#### Training Requirements:

Deputies must successfully complete FETT Basic/Intermediate or higher-level Explosive Breacher Course. Must complete required FETT Explosive Breacher re-certification courses at regularly required intervals.

Must maintain compliance with local, state and federal storage, transportation and handling regulations.

#### Compliance Protocols:

Use of Det Cord as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407, 408 as well as all local, state and federal use of force legislation.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## **NAPA COUNTY    OFFICE OF SHERIFF-CORONER**

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### **Exact/Direct Impact 40MM Sponge Munitions**

#### **Description:**

The Exact Impact 40 MM Sponge Munition is a lightweight, high-speed projectile consisting of a plastic body and sponge nose. The round utilizes smokeless powder as the propellant, and, therefore, have velocities that are extremely consistent.

The Direct Impact 40 MM Foam Munition is a lightweight projectile that consists of a plastic body and a crushable foam nose that contains a powder payload. This payload area can hold inert, marking, OC (Oleoresin Capsicum) or CS (Chlorobenzylidenemalononitrile) powder. The crushable foam nose dissipates energy upon impact while releasing the powder payload. The munition is deployed from a 40mm launcher.

#### **Purpose & Use:**

The Exact Impact 40 MM Sponge Munition and the Direct Impact 40 MM Foam Round is a point-of-aim, point-of-impact, direct-fire munition that is most commonly used in situations where greater accuracy and deliverable energy is desired for the incapacitation of an aggressive, non-complaint subject at longer distances. These are considered Less Lethal Impact Munitions (LLIM).

#### **Cost & Quantity Allocation:**

This expendable equipment has no unique or temporary funding source. Unit cost of \$25. Annual estimated training and operational allocation of approximately 40 units.

#### **Training Requirements:**

Deputies must successfully complete department-approved training to be authorized to use the Exact Impact 40 MM Sponge munition and the Direct Impact 40 MM Foam munition.

#### **Compliance Protocols:**

Use of the Exact Impact 40 MM Sponge munition and the Direct Impact 40 MM Foam munition shall conform to all relevant SO policies, including but not limited to SO Policy 302.9, 404, 407 and 431.

Must maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

#### **Public complaint procedures:**

SO Policy Number 1009 shall apply to all personnel complaints.



# NAPA COUNTY OFFICE OF SHERIFF-CORONER

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## **Ferret Round-40MM**

### Description:

The Ferret 40mm Round is a frangible projectile filled with chemical agent. It is designed to deliver chemical agents in barricade situations from a 40mm launcher. It is available with either liquid or powder carrier for the agent. The payload can hold OC (Oleoresin Capsicum) or CS (Chlorobenzylidenemalononitrile). Spin stabilization from barrel rifling affords maximum stand-off distance and accuracy for safety.

### Purpose & Use:

The Ferret 40mm Round is non-burning and suitable for indoor use. Used primarily by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of the structure or vehicle. It is primarily used to dislodge barricaded subjects from very small 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.

### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$27. Annual estimated training and operational allocation of approximately 20 units.

### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use the Ferret 40mm Round.

### Compliance Protocols:

Use of the Ferret 40mm Round shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.





## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Noise/Flash Diversionary Device (NFDD AKA – Flashbangs) – 12 gram and 4 gram**

#### Description:

NFDD utilizes an M201A1 type fuze with Hex design steel body. The bodies are reloadable and are reusable up to 25 times. The charges are available in full 12 gram loads, or 4 gram training charges.

#### Purpose & Use:

NFDD's are used to distract suspects during high risk operations.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$40/ea. Annual estimated training and operational allocation of approximately 50 units.

#### SWAT procedural rules that govern use:

NFDD's shall only be handled by trained deputies. Charges for the NFDD's will be installed by trained deputies. All devices shall be stored in compliance with ATF regulations and handled in accordance with best practices as established by NFDD training standards.

#### Training Requirements:

Certified instructors must complete certification every four years. Deputies must complete training to use NFDD from certified instructors prior to deployment, and receive annual instruction on deployment and use.

#### Compliance Protocols:

Use of NFDD as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407, 408.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations, as well as all local, state and federal use of force legislation.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Infrared laser (IR) designator (various configurations)**

#### Description:

Infrared Laser signaling device.

#### Purpose & Use:

IR laser is used as a "laser pointer" style pointing device that can be seen through night vision and has the capability of attaching to a weapon system. IR lasers are not visible to the naked human eye. Marking or targeting locations with this system improves communication and lowers confusion.

#### Cost & Quantity Allocation:

This piece of equipment has no unique or temporary funding source. Unit cost of \$2000. Annual estimated training and operational allocation of approximately 4 units. Estimated annual upkeep costs dependent on warranty coverage and routine/preventative maintenance. Estimated lifespan 5+ years.

#### SWAT procedural rules that govern use:

IR laser device shall be used by SWAT team members under the direction of the SWAT team Commander.

Use of the IR Laser designator shall conform to all relevant local, state and federal use of force legislation.

#### Training Requirements:

Show proficiency in manipulation and annual qualification.

#### Compliance Protocols:

Use of the IR laser designator shall conform to all relevant SO policies, including but not limited to SO Policy 305,404

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **LENCO BEARCAT G3 ARMORED VEHICLE**

#### Description

Off road and rural mission armored vehicle, seats 10-12 fully equipped officers, open floor plan that allows for rescue of downed personnel.

#### Purpose and Use

Armored vehicle system in a rugged off-road platform to provide enhanced off-road performance which allows for emergency response in rural regions and natural disasters scenarios for a variety of missions where standard armored SWAT vehicles would experience challenges. Optionally equipped with ram, "ramcam" that can penetrate a wall to allow live video feed inside a structure, technology meshing to allow the use of advanced technologies on scene, and all steel construction. Having the ability to safely approach areas of concern increases the ability of members of this office to conduct rescues or isolate violent offenders.

#### Cost & Quantity Allocation:

This equipment has no unique or temporary funding source. Unit cost of \$400,000/vehicle. Annual upkeep costs dependent on mileage, fuel, preventative maintenance. Annual estimated training and operational allocation of approximately 1 unit. Estimated effective lifespan approximately 10 years.

#### SWAT procedural rules that govern use

The Lenco Bearcat G3 is primarily operated by auxiliary drivers whose purpose is to drive and operate equipment on the Bearcat. However, all members of the SWAT team and auxiliary members have been provided in-person hands-on training on the vehicle and its capabilities.

#### Training Requirements

Every driver must possess a valid driver license, show competency when operating the Lenco Bearcat G3, and be up to date on the POST mandated Emergency Vehicle Operator Course (EVOC).

#### Compliance Protocols

Use of the Lenco Bearcat shall conform to all relevant SO policies, including but not limited to 308 – Vehicle Operations and Parking Procedures and 703 – Vehicle Use

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Recon Robotics Throwbot (AKA- Throwbot)**

#### Description:

The Throwbot is a throwable micro-robot platform that enables operators to obtain instantaneous video and audio reconnaissance within indoor or outdoor environments.

#### Purpose & Use:

The Throwbot is used to gain mission critical information in harsh or hazardous environments. This system allows members of this office to gain information without putting a person in danger.

#### Cost & Quantity Allocation:

Any repairs or replacements will be through warranty and if it is not covered through warranty, then funding will come from the SWAT budget/funding source; there are no annual fees associated with this device. Annual estimated training and operational allocation of approximately 1 units. Estimated effective lifespan 5+ years.

#### SWAT procedural rules that govern use:

The Throwbot shall only be handled and controlled by trained deputies.

#### Training Requirements:

Deputies do not need to complete any formal training to be able to control the Throwbot with its easy-to-use, handheld controller.

#### Compliance Protocols:

Use of the Throwbot as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407 and 408.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Robotex Avatar Tactical Robot (AKA- Avatar)**

#### Description:

The Avatar is a robot platform that allows the operator the ability to inspect a dangerous situation through instantaneous video and audio reconnaissance (including push-to-talk/two-way audio capability) without the need to send personnel in to assess the situation. Optionally, the Avatar robot can be fitted with a “claw” that can provide limited lift/move/carry/manipulate of small objects to include opening doors.

#### Purpose & Use:

The Avatar is used to gain mission critical information in harsh or hazardous environments.

#### Cost & Quantity Allocation:

Any repairs or replacements will be through warranty and if it is not covered through warranty, then funding will come from the SWAT budget/funding source; there are no annual fees associated with this device. Annual estimated training and operational allocation of approximately 1 unit. Estimated effective lifespan 5+ years.

#### SWAT procedural rules that govern use:

The Avatar shall only be handled and controlled by trained deputies.

#### Training Requirements:

Deputies do not need to complete any formal training to be able to control the Avatar with its easy-to-use, handheld controller.

#### Compliance Protocols:

Use of the Avatar as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407 and 408.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Zistos Under-the-Door Camera (AKA- Under-Door-Camera)**

#### Description:

The Under-the-Door Camera provides a safe and covert way to view into a room.

#### Purpose & Use:

The Under-the-Door Camera provides operators the ability to gain critical mission information with limited penetration.

#### Cost & Quantity Allocation:

Any repairs or replacements will be through warranty and if it is not covered through warranty, then funding will come from the SWAT budget/funding source; there are no annual fees associated with this device. Annual estimated training and operational allocation of approximately 1 unit. Estimated effective lifespan 5+ years.

#### SWAT procedural rules that govern use:

The Under-the-Door Camera shall only be handled by trained deputies.

#### Training Requirements:

Deputies do not need to complete any formal training to be able to control the Under-the-Door-Camera with its easy-to-use, handheld controller.

#### Compliance Protocols:

Use of the Under-the-Door Camera as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407 and 408.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

Commitment to  
Community

### **Short barreled select fire AR-15 style rifle (various configurations)**

#### Description:

A Short barreled select fire AR-15 style rifle available in a variety of calibers, barrel lengths and configurations.

#### Purpose & Use:

The short barreled select fire AR-15 style rifle is the type of firearms that SWAT team members are issued and employ for a wide variety of missions. This rifle is used to match the threats of highly violent offenders who are armed with weapons that could overwhelm responding deputies.

#### Cost & Quantity Allocation:

This piece of equipment has no unique or temporary funding source. Unit cost of \$1500. Ongoing costs determined by rounds fired operationally and in training, routine and preventative maintenance. Annual estimated training and operational allocation of approximately 20 units. Estimated effective lifespan 10+ years.

#### SWAT procedural rules that govern use:

The rifle shall be assigned and used by SWAT team members who meet the department-set rifle qualifications and under the direction of the SWAT commander.

#### Training Requirements:

Must complete annual SWAT rifle qualification and regular firearms training.

#### Compliance Protocols:

Use of A Short barreled select fire AR-15 style rifle as part of SWAT Operations shall conform to all relevant SO policies, including but not limited to SO Policy 305, as well as all local, state and federal use of force laws.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **Smoke- handheld smoke grenade devices**

#### Description:

The handheld smoke grenade devices utilizes an M201A1 Fuze with enclosed canister that come in a variety of sizes, colors, configurations that uses HC (Hexachlorethane) and SAF-Smoke. Smoke is discharged through gas ports located on the canister.

#### Purpose & Use:

Handheld smoke grenade devices can be used to conceal tactical movement. They can be used in crowd control during riotous behavior. It can be used to detect and/or dislodge a barricaded subject. It can also be used as an emergency signaling device. The different configurations allows for indoor or outdoor deployments.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$43.00. Annual estimated training and operational allocation of approximately 8 units.

#### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use handheld smoke grenade devices.

#### Compliance Protocols:

Use of handheld smoke grenade devices shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.





## NAPA COUNTY OFFICE OF SHERIFF-CORONER

Commitment to  
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### **Spede-Heat 40mm Round**

#### Description:

The Spede-Heat 40mm Round incorporates an aluminum shell and utilizes black powder as the propellant. The Spede-Heat 40mm Round is designed to deliver one dual-ported chemical or smoke canister from a 40mm launcher at various ranges, product dependent. The Spede-Heat 40mm Round is available in OC (Oleoresin Capsicum) or CS (Chlorobenzylidenemalononitrile) and Saf-Smoke. Spede-Heat 40mm round is deployed from a 40mm launcher.

#### Purpose & Use:

The Spede-Heat 40mm Round can be used to conceal tactical movement. They can be used in crowd control management during riotous behavior. The purpose of the Spede-Heat 40mm Round is to minimize the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects. The different configurations allows for different distances and chemical agent or smoke deployments. These rounds are used for area denial both externally and inside structures.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$25. Annual estimated training and operational allocation of approximately 4 units.

#### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use the Spede-Heat 40mm Round.

#### Compliance Protocols:

Use of Spede-Heat 40mm Round shall conform to all relevant NSO policies, including but not limited to NSO Policy 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

#### Public complaint procedures:

Napa SO Department Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

Commitment to  
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### **Stinger Grenade**

#### Description:

The Stinger Grenade with Safety Clip is a combination Less Lethal Impact Munitions (LLIM) and Distraction Device that may incorporate optional CS (Chlorobenzylidenemalononitrile) or OC (Oleoresin Capsicum) laden powder, if desired. The Stinger Grenade is a maximum effect device as it delivers up to four stimuli for psychological and physiological effect: rubber pellets, light, sound, and optional chemical agent or OC.

#### Purpose & Use:

The Stinger Grenade is most widely used in crowd control management during riotous behavior as well as tactical deployment situations to detect and/or dislodge barricaded subjects. Upon deployment, the blast is sufficient to project the rubber balls (32 cal. /60 cal. Option) and optional chemical agent in a 50 foot radius.

#### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$50. Annual estimated training and operational allocation of approximately 8 units.

#### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use the Stinger Grenade.

#### Compliance Protocols:

Use of the Stinger Grenades shall conform to all relevant SO policies, including but not limited to SO Policy 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

Commitment to  
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### **Sub-compact select fire weapon system**

#### Description:

A sub-compact select fire weapon system is a shoulder fired weapon system that varies in calibers.

#### Purpose & Use:

A more compact, more easily concealed weapon system that can be deployed for appropriate situations.

#### Cost & Quantity Allocation:

This piece of equipment has no unique or temporary funding source. Unit cost of \$0.00 – legacy items already exist in inventory. Estimated annual upkeep determined by rounds fired and routine/preventative maintenance. Estimated effective lifespan 10+ years.

#### SWAT procedural rules that govern use:

The sub-compact select fire weapon system shall be used by SWAT team members under the direction of the SWAT team Commander.

#### Training Requirements:

Must complete annual SWAT firearms qualification and regularly required firearms training.

#### Compliance Protocols:

Use of the sub compact select fire weapon system shall conform to all relevant SO policies, including but not limited to SO Policy 305,404, as well as all local, state and federal use of force laws.

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

Commitment to  
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### **Firearms Suppressor (various calibers, lengths, attachment styles)**

#### Description:

A suppressor is a device typically attached at the end of a barrel of a firearm.

#### Purpose & Use:

A suppressor is used to muffle and distort the sound of a firearm as it is fired. Suppressors can decrease confusion during a violent confrontation by allowing deputies to communicate more effectively. It can also decrease muzzle blast allowing better vision during a violent encounter.

#### Cost & Quantity Allocation:

This piece of equipment has no unique or temporary funding source. Unit cost of \$1000. Annual estimated training and operational allocation of approximately 20 units (up to 1 unit per rifle). Estimated annual upkeep costs determined by rounds fired and routine/preventative maintenance. Estimated effective lifespan 10+ years.

#### SWAT procedural rules that govern use:

The suppressor shall be used by SWAT team members under the direction of the SWAT Commander.

#### Training Requirements:

Must complete annual SWAT rifle qualification and regularly required firearms training.

#### Compliance Protocols:

Use of a suppressor shall conform to all relevant SO policies, including but not limited to SO Policy 305,404

#### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



# NAPA COUNTY OFFICE OF SHERIFF-CORONER

Commitment to  
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## **40 MM Warning/Signaling Round**

### Description:

The 40mm Aerial Warning/Signaling Round series are designed to produce 170 dB of sound, and 5 million candelas of light. Each munition is manufactured to deflagrate at a set distance and altitude and has the option of marking or irritant payloads. These distances are 50,100,200 and 300 meters from the point of origin. The munition is deployed from a 40mm launcher.

### Purpose & Use:

40mm Aerial Warning/Signaling Round are used to distract/disorientate individuals and provide less lethal response against potential threats. It is also effective in directing the movement of riotous crowds.

### Cost & Quantity Allocation:

This expendable equipment has no unique or temporary funding source. Unit cost of \$40. Annual estimated training and operational allocation of approximately 5 units.

### Training Requirements:

Deputies must successfully complete department-approved training to be authorized to use the 40mm Aerial Warning/Signaling Round.

### Compliance Protocols:

Use of the 40mm Aerial Warning/Signaling Round shall conform to all relevant SO policies, including but not limited to SO Policy 302.9, 404, 407 and 431.

Must also maintain compliance with local, state and federal storage, transportation and handling regulations and all relevant local, state and federal use of force legislation.

### Public complaint procedures:

SO Policy Number 1009 shall apply to all personnel complaints.



# NAPA COUNTY OFFICE OF SHERIFF-CORONER

Commitment to  
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## **sUAS - Small Unmanned Aircraft System**

### Description:

DJI Mavic small unmanned aircraft, quadcopter affixed with camera. Registered with the FAA as a small drone, used both commercially and privately for aerial photo / video. Flight Range; 4.3 miles, Flight time 27 minutes and top speed of 40 MPH. Expected lifespan; Approx. 5 years. Multiple factors can vary Manufacturer's description; Powerful flagship camera drone equipped with camera to facilitate professional-level imaging. It also offers omnidirectional obstacle sensing for a smooth flight experience.

### Purpose & Use:

The members of the Napa County Sheriff's Office small Unmanned Aerial Systems (sUAS) Team shall provide aerial observation support for the Sheriff's Office and other law enforcement and public safety entities within Napa County. Missions will be accomplished lawfully, safely and professionally, while adhering to our Commitment to Community and respecting the privacy of the citizen's we serve.

### Cost and Quantity:

\$3800-6000 initial cost; minimal annual maintenance. Quantity 7.

### Legal and procedural rules:

Refer to SO policy 606. Refer to sUAS Program Operations and procedures manual and FAA COA's and Regulations.

### Required training:

Agency-authored Pilot Training Program; FAA Part 107 license. Both are refreshed bi-annually.

### Compliance mechanisms:

Operational use under the review of the sUAS Commander or Pilot in Command.



## NAPA COUNTY OFFICE OF SHERIFF-CORONER

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### **sUAS - Small Unmanned Aircraft System**

#### **Description:**

Inspired Flight IF1200, small unmanned hexacopter with batteries and remote control. Affixed with camera and registered with FAA. Capabilities; Flight Range 6 miles, Flight time 40 minutes and top speed of 49 MPH. Expected lifespan Approx. 5 years. Multiple factors can vary Manufacturer's description "Designed for the most demanding of industrial applications, the IF1200 supports 8kg payloads and up to 40 minute flight times. With unparalleled ruggedness, flight performance, and an open-system architecture, the IF1200 is a workhorse platform fully designed, manufactured & supported in the USA."

#### **Purpose & Use:**

The members of the Napa County Sheriff's Office small Unmanned Aerial Systems (sUAS) Team shall provide aerial observation support for the Sheriff's Office and other law enforcement and public safety entities within Napa County. Missions will be accomplished lawfully, safely and professionally, while adhering to our Commitment to Community and respecting the privacy of the citizen's we serve.

#### **Cost and Quantity:**

\$54,000 initial purchase; minimal annual expenses. Quantity 1.

#### **Legal and procedural rules:**

Refer to SO policy 606. Refer to sUAS Program Operations and procedures manual and FAA COA's and Regulations.

#### **Required training:**

Manufacturer Train the trainer course, Agency-authored Pilot Training Program; FAA Part 107 license. Both are refreshed bi-annually. Compliance mechanisms Operational use under the review of the sUAS Commander or Pilot in Command.