

**Requested Item - Transcend Robotics Vantage Robot**

**Description:**

A remote controlled, unmanned machine that operates on the ground, which is utilized to enhance the safety of the community and officers. The Vantage Robot would enhance the capabilities of SWAT and other tactical response teams to inspect a dangerous situation through video and audio capability by an officer in a safe location.

**Purpose & Use:**

This equipment allows the ability to inspect dangerous or hazardous environments through video and audio footage to resolve an incident safely. The video and audio footage obtained by the equipment would be live-streamed only, and not recorded or retained. The robot would be kept and maintained by SWAT. This equipment would be deployed by members of SWAT under the Crisis Response Unit (CRU) deployment procedures.

**Quantity Allocation:**

One (1)

**Fiscal Impacts:**

Initial Cost for Vantage Robot: \$ 17,500  
 Software Upgrade Cost (every 2 years): ~\$3,000  
 Ongoing Maintenance Cost: Staff time

**Training Requirements:**

Only properly trained NPD SWAT members are authorized to use the Vantage Robot.

**Compliance Protocols:**

In addition to State and Federal use of force legislation and State Government Code sections §7070-7075, the use of the Vantage Robot shall conform to all relevant City of Napa and Napa Police Department policies, including but not limited to Use of Force and Control Devices Techniques policies. The City of Napa and Napa Police Department policies are available on our respective websites.

Use of this equipment shall be documented in an incident report and/or applicable database in accordance with Penal Code §13652.1.

**Requested Item - 40mm Tactical 4-Shot Launcher**

**Description:**

The Defense Technology 40MM Tactical 4-Shot Launcher is a multi-shot launcher that will fire standard 40MM less lethal ammunition up to 4.8 inches in cartridge length.

**Purpose & Use:**

The 40 MM launcher is used by SWAT personnel as a less lethal tool to launch chemical agent munitions into a structure or impact munitions at a person from a safe distance, in accordance with current de-escalation practices. This tool limits the escalation of conflict where the employment of lethal force is prohibited or undesirable. Situations for using this less lethal weapon systems may include, but are not limited to:

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

**Quantity Allocation:**

One (1)

**Fiscal Impacts:**

Initial cost - \$2894.11  
Ongoing maintenance cost – approx. \$50 annually

**Training Requirements:**

SWAT team members utilizing 40MM less lethal chemical agents, or impact rounds and launcher, are trained by POST-certified less lethal and chemical agents instructors (AB 48).

**Compliance Protocols:**

In addition to State and Federal use of force legislation and State Government Code sections §7070-7075, the use of the 40 mm launcher shall conform to all relevant City of Napa and Napa Police Department policies, including but not limited to Use of Force and Control Devices Techniques policies. City of Napa and Napa Police Department policies are available on our respective websites.

Use of this equipment shall be documented in an incident report and/or applicable database in accordance with Penal Code §13652.1.

**Requested Item - Autel small Unmanned Aerial System (sUAS)**

**Description:**

The Autel EVO series of small unmanned aerial systems are drones that can be remotely controlled or fly autonomously using software-controlled flight plans in its embedded systems that work in-conjunction with onboard sensors and a global positioning system (GPS). UAVs have become an industry-standard in law enforcement.

**Purpose & Use:**

The use of drones by law enforcement teams such as SWAT, CNT, Accident Reconstruction, and Patrol teams has shown to be highly beneficial. With the future and our unique mission in mind, drone usage in various environments is essential and has already proven to enhance officer safety as well as mission capabilities. A variance in drone aircraft is essential because all missions produce unique challenges and parameters. Different drones provide varying capabilities and the integration of drone usage with special teams such as SWAT and CNT have shown the importance of having reliable and effective drones for officer safety and successful completion of intense, rapidly evolving critical incidents.

Specifically, drone usage with Accident Reconstruction will show an immediate advantage in terms of man hours, scene documentation and point of view. The ability to quickly document a scene from an aerial platform which may then be easily input into software ideal for accident reconstruction, will save countless hours of road closures and overtime costs. The drones additionally provide the advantage of video from the vehicle’s point of view as well as easily navigable videos and photos of almost any portion of the collision scene. The drones would be stored within the traffic unit.

**Quantity Allocation:**

**Fiscal Impacts:**

One (1) Autel EVO II Pro

Initial cost - \$2500  
Ongoing maintenance cost – approx. \$1200 annually

One (1) Autel EVO II 640 T

Initial Cost - \$8195  
Ongoing maintenance cost – approx. \$1500 annually

**Training Requirements:**

Drone team pilots will be required to obtain FAA Part 107 licensing as well as locally developed NPD certification. Ongoing training will consist of 4 hours monthly and annual local certification. Part 107 licensing will conform to all standards, timeframes and policies set by the FAA.

**Compliance Protocols:**

In addition to State and Federal rules for sUAS's, use of the drones shall conform to all relevant City of Napa and Napa Police Department policies, including but not limited to the sUAS policy. Per FAA regulations, a yearly transparency report will be made available to the public. City of Napa and Napa Police Department policies are available on our respective websites.

Use of this equipment shall be documented in an incident report and/or applicable database per NPD policy.

**ITEM 3 (A):**

**Exact/Direct Impact 40mm Sponge Munitions**

**Description:**

The CTS 40mm 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. This Munition is deployed through a 40 MM launcher.

**Purpose & Use:**

This equipment is used by trained NPD SWAT members to incapacitate a violent, non-compliant subject at a greater distance in non-lethal situations to safely resolve an incident.

**Quantity Allocation:**

**Fiscal Impacts:**

Ninety-Six (96)

(1) 40MM CTS 4557 Sponge Round, 5-year shelf life, \$23.43 each: \$2249.28

Ninety- Six (96)

(2) 40MM CTS 4557HV Sponge Round, 5-year shelf life, \$25.24 each: \$2423.04

**Training Requirements:**

SWAT team members utilizing 40MM less lethal chemical agents, or impact rounds and launcher are trained in their use by POST certified less lethal and chemical agents instructors (AB 48).

**Compliance Protocols:**

In addition to State and Federal use of force legislation and State Government Code sections §7070-7075, the use of these munitions shall conform to all relevant City of Napa and Napa Police Department policies, including but not limited to Use of Force and Control Devices Techniques policies. City of Napa and Napa Police Department policies are available on our respective websites.

Use of this equipment shall be documented in an incident report and/or applicable database and subject to California Penal Code Section §13652.1.

**ITEM 3B:**

**Ferret Round-40MM**

**Description:**

The Defense Technology Ferret 40MM CS Liquid Barricade Penetrating Projectile round is a projectile filled with chemical agent. It is designed to deliver chemical agents in barricade situations from a 40MM launcher. The round holds 8 grams of liquid CS (Chlorobenzylidene malononitrile) agent. Spin stabilization from barrel rifling affords maximum stand-off distance and accuracy for safety.

**Purpose & Use:**

This is used in cases where armed or dangerous suspects are barricading themselves inside a structure and refuse to surrender. Its purpose is to minimize the risks to all parties through temporary discomfort and/or incapacitation of potentially violent or dangerous subjects to safely resolve an incident.

**Quantity Allocation:**

One Hundred  
Ninety-Two  
(192)

**Fiscal Impacts:**

Defense Technology Ferret 40MM CS Liquid Barricade Penetrating Projectile 5-year shelf life, \$28.97 each: \$5562.24

**Training Requirements:**

Officers must successfully complete department approved training to be authorized to use the Ferret 40MM round. Only SWAT officers are trained in their use by POST certified less lethal and chemical agents instructor (AB 48)

**Compliance Protocols:**

In addition to State and Federal use of force legislation and State Government Code sections §7070-7075, the use of these munitions shall conform to all relevant City of Napa and Napa Police Department policies, including but not limited to Use of Force and Control Devices Techniques policies. City of Napa and Napa Police Department policies are available on our respective websites.

Use of this equipment shall be documented in an incident report and/or applicable database.

**ITEM 4:**

**Chemical Agents and Smoke Canisters**

**Description:**

These canisters contain chemical agents that are released when deployed. The chemical agents handheld canister devices utilize a M201A1 Fuze with enclosed canister that come in a variety of sizes, configurations and irritant payloads. The CS (Chlorobenzylidene malononitrile) configuration is a pelletized chemical agent and is discharged through a gas port from the canister.

**Purpose & Use:**

This is used in cases where armed suspects are threatening to commit or have committed violent crimes; or are barricading themselves inside a structure and refusing to surrender. Uses may also include smoke used to obscure, or as a marking/locating signal. Having the ability to insert a chemical agent into a structure minimizes the risk to all parties through pain compliance, temporary discomfort, and or incapacitation of violent or potentially violent subjects to safely resolve the incident. Chemical Agents and Smoke may be used in crowd control situations.

**Quantity Allocation:**

**Fiscal Impacts:**

Forty-Eight (48)

(1) Combined Tactical System (CTS) 5230JL- CS Smoke Pyro Jet Lite Canister Grenade Outdoor, \$42.22 each: \$2026.56

Ninety-Six (96)

(2) Combined Tactical Systems (CTS) 5230B- CS Baffled Canister Grenade, up to 20 a year for training and deployments, 5-year shelf life, \$47.22 each: \$4533.12

**Training Requirements:**

SWAT officers must successfully complete department approved training to be authorized to use chemical agents handheld canister devices (AB 48).

**Compliance Protocols:**

In addition to State and Federal use of force legislation and State Government Code sections §7070-7075, the use of chemical agents and smoke canisters shall conform to all relevant City of Napa and Napa Police Department policies, including but not limited to Use of Force policies. They must also maintain compliance with local, state, and federal storage, transportation, and handling regulations. City of Napa and Napa Police Department policies are available on our respective websites.

Use of this equipment shall be documented in an incident report and/or applicable database and subject to California Penal Code Section §13652.1.

**ITEM 9:**  
**Noise/Flash Diversionary Device (NFDD AKA – Flashbangs)**

**Description:**  
 Combined Tactical Systems (CTS) 7290M – Mini Bang is a device that emits a loud sound and bright light to momentarily disorient or distract a person or animal. This time allows officers to gain a tactical advantage.

**Purpose & Use:**  
 Noise/Flash Diversionary Device (NFDD AKA – Flashbangs) are used to distract suspects during high-risk operations that may include but not limited to: barricaded subjects, hostage situations, or high risk search warrants.

To ensure operational readiness, the requested inventory amount for these products were increased.

<b>Quantity Allocation:</b>	<b>Fiscal Impacts:</b>
Seventy-two (72)	(1) Combined Systems (CTS) 7290M – Mini Bang, Steel Body for training and deployments, 5-year shelf life; \$48.19 each:
Ten (10)	(2) Combined Systems (CTS) 7290MT- Mini Flashbang, \$50.42 each: \$504.20

**Training Requirements:**  
 SWAT team members utilizing 40MM less lethal chemical agents, or impact rounds and launcher are trained in their use by POST certified less lethal and chemical agents instructors (AB 48).

**Compliance Protocols:**  
 In addition to State and Federal use of force legislation and State Government Code sections §7070-7075, the use of the 40 mm launcher shall conform to all relevant City of Napa and Napa Police Department policies, including but not limited to Use of Force and Control Devices Techniques policies. City of Napa and Napa Police Department policies are available on our respective websites.

Use of this equipment shall be documented in an incident report and/or applicable database in accordance with Penal Code §13652.1.

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