

Military Equipment

711.1 PURPOSE AND SCOPE

The purpose of this policy is to provide guidelines for the approval, acquisition, and reporting requirements of "military equipment" as defined by the California State Legislature (AB 481; Government Code § 7070; Government Code § 7071; Government Code § 7072).

711.1.1 DEFINITIONS

Definitions related to this policy include (Government Code § 7070):

Governing body - In the case of a law enforcement agency of a county, including a sheriff's department, "governing body" means the Board of Supervisors.

Military equipment - Includes but is not limited to the following:

- Unmanned, remotely piloted, powered aerial or ground vehicles.
- Mine-resistant ambush-protected (MRAP) vehicles or armored personnel carriers.
- High mobility multipurpose wheeled vehicles (HMMWV), two-and-one-half-ton trucks, five-ton trucks, or wheeled vehicles that have a breaching or entry apparatus attached.
- Tracked armored vehicles that provide ballistic protection to their occupants.
- Command and control vehicles that are either built or modified to facilitate the operational control and direction of public safety units.
- Weaponized aircraft, vessels, or vehicles of any kind.
- Battering rams, slugs, and breaching apparatuses that are explosive in nature. This does not include items designed to remove a lock, such as bolt cutters, or a handheld ram designed to be operated by one person.
- Firearms and ammunition of .50 caliber or greater, excluding standard-issue shotguns and standard-issue shotgun ammunition.
- Specialized firearms and ammunition of less than .50 caliber, including assault weapons as defined in Penal Code § 30510 and Penal Code § 30515, with the exception of standard-issue service weapons and ammunition of less than .50 caliber.
- Any firearm or firearm accessory that is designed to launch explosive projectiles.
- "Flashbang" grenades and explosive breaching tools.
- Munitions containing tear gas or OC, and pepperballs, excluding standard, service- issued handheld pepper spray.
- TASER® Shockwave, microwave weapons, water cannons, and long-range acoustic devices (LRADs).
- 40mm projectile launchers, "bean bag," rubber bullet and specialty impact munition (SIM) weapons.
- Any other equipment as determined by a governing body or a state agency to require additional oversight.

Orange County Sheriff-Coroner Department

Orange County SD Policy Manual

Military Equipment

711.2 POLICY

It is the policy of the Orange County Sheriff's Department that members of this Department comply with the provisions of Government Code § 7071 with respect to military equipment.

711.3 MILITARY EQUIPMENT COORDINATOR

The Sheriff has designated the SAFE Bureau to act as the military equipment coordinator. The responsibilities of the military equipment coordinator include but are not limited to:

- (a) Acting as liaison to the Board of Supervisors for matters related to the requirements of this policy.
- (b) Identifying Department equipment that qualifies as military equipment in the current possession of the Department, or the equipment the Department intends to acquire that requires approval by the governing body.
- (c) Conducting an inventory of all military equipment at least annually.
- (d) Collaborating with any allied agency that may use military equipment within the jurisdiction of the Department (Government Code § 7071).
- (e) Preparing for, scheduling, and coordinating the annual community engagement meeting to include:
 - 1. Publicizing the details of the meeting.
 - 2. Preparing for public questions regarding the Department's funding, acquisition, and use of equipment.
- (f) Preparing the annual military equipment report for submission to the Sheriff and the Board of Supervisors, and ensuring that the report is made available on the Department website (Government Code § 7072).
- (g) Coordinating the processing of complaints and concerns submitted pursuant to Section 711.11 of this policy.

711.4 MILITARY EQUIPMENT CONSIDERATIONS

- (a) The military equipment acquired and authorized by the Department and approved by the Board of Supervisors is:
 - 1. Necessary because there is no reasonable alternative that can achieve the same objective of officer and civilian safety.
 - 2. Reasonably cost-effective compared to available alternatives that can achieve the same objective of officer and civilian safety.
- (b) Military equipment shall be used by a Department member only after applicable training, as described in applicable Department Policies and Procedures, including the completion of any course required by the Commission on Peace Officer Standards and Training.

Orange County Sheriff-Coroner Department

Orange County SD Policy Manual

Military Equipment

711.5 MILITARY EQUIPMENT INVENTORY

The following constitutes a list of qualifying equipment for the Department: See attached: Military Equipment Inventory.pdf

711.6 APPROVAL

The Sheriff or the authorized designee shall obtain approval from the governing body by way of an ordinance adopting the military equipment policy. As part of the approval process, the Sheriff or the authorized designee shall ensure the proposed military equipment policy is submitted to the governing body and is available on the Department website at least 30 days prior to any public hearing concerning the military equipment at issue (Government Code § 7071). The military equipment policy must be approved by the governing body prior to engaging in any of the following (Government Code § 7071):

- (a) Requesting military equipment made available pursuant to 10 USC § 2576a.
- (b) Seeking funds for military equipment, including but not limited to applying for a grant, soliciting or accepting private, local, state, or federal funds, in-kind donations, or other donations or transfers.
- (c) Acquiring military equipment either permanently or temporarily, including by borrowing or leasing.
- (d) Collaborating with another law enforcement agency in the deployment or other use of military equipment within the jurisdiction of this Department.
- (e) Using any new or existing military equipment for a purpose, in a manner, or by a person not previously approved by the governing body.
- (f) Soliciting or responding to a proposal for, or entering into an agreement with, any other person or entity to seek funds for, apply to receive, acquire, use, or collaborate in the use of military equipment.
- (g) Acquiring military equipment through any means not provided above.

711.7 COORDINATION WITH OTHER JURISDICTIONS

Military equipment used by any member of this Department shall be in accordance with this policy and all applicable Department policies. Military equipment used by other departments that are providing mutual aid within Orange County Sheriff's Department jurisdiction shall comply with their respective department's policies.

711.8 ANNUAL REPORT

Upon approval of a military equipment policy, the Sheriff or the authorized designee shall submit a military equipment report to the governing body for each type of military equipment approved within one year of approval, and annually thereafter for as long as the military equipment is available for use (Government Code § 7072).

Orange County Sheriff-Coroner Department

Orange County SD Policy Manual

Military Equipment

The SAFE Bureau shall make each annual military equipment report publicly available on the Department website for as long as the military equipment is available for use. The report shall include all of the following information for the preceding calendar year:

- (a) A summary of how the military equipment was used and the purpose of its use.
- (b) A summary of any complaints or concerns received concerning the military equipment.
- (c) The results of any internal audits, any information about violations of the military equipment policy, and any actions taken in response.
- (d) The total annual cost for each type of military equipment, including acquisition, personnel, training, transportation, maintenance, storage, upgrade, and other ongoing costs, and from what source funds will be provided for the military equipment in the calendar year following submission of the annual military equipment report.
- (e) The quantity possessed for each type of military equipment.
- (f) If the law enforcement agency intends to acquire additional military equipment in the next year, the quantity sought for each type of military equipment.

711.9 COMPLIANCE

The Department will ensure that employees comply with this policy. Each Division is responsible for ensuring compliance with this policy and will be subject to an annual audit by the SAFE Division. All potential policy violations will be referred to the Internal Affairs Division for investigation. (Government Code §§ 7070(d), 7072(a),)

711.10 COMMUNITY ENGAGEMENT

Within 30 days of submitting and publicly releasing the annual report, the Department shall hold at least one well-publicized and conveniently located community engagement meeting, at which the public may discuss and ask questions regarding the annual report and the Department's funding, acquisition, or use of military equipment.

711.11 PUBLIC CONCERNS

Any member of the public may submit a question or concern regarding the Department's military equipment by contacting OCSD via email at info@ocsheriff.gov. A response to the question or concern shall be completed and provided by the Department in a timely manner.

Any member of the public may submit a Civilian Complaint Form, which is available on the Sheriff's website. Once the complaint is received, it shall be routed to the Internal Affairs Bureau in accordance with Policy 1020 (Government Code § 7070(d)).

ORANGE COUNTY SHERIFF'S DEPARTMENT MILITARY EQUIPMENT INVENTORY

CATEGORY 1 - Unmanned, remotely piloted, powered aerial or ground vehicles

Unmanned Aerial System (UAS): An unmanned aircraft and the associated equipment necessary to control it remotely.

1. Description, capabilities, quantity and cost:

- a. DJI MAVIC 2 PRO - Featuring an iconic Hasselblad L1D-20C camera which boasts a 1-inch CMOS sensor. Key features include its 5 mile range using DJI's new OcuSync 2.0 technology, up to 31 minutes of flight time with its 3850 mAh battery making it the longest flight time for a consumer drone on the market. Cost: \$2,300, Quantity: 7
- b. DJI MAVIC 2 ENTERPRISE DUAL - Featuring a fully integrated and stabilized dual sensor with Radiometric FLIR® thermal & visible imagery the Mavic 2 Enterprise Dual is one of the most capable aircrafts for its size and very affordable price point. Add-on modules include the spotlight, speaker and beacon. Cost: \$3,000, Quantity: 2
- c. DJI MAVIC 2 ENTERPRISE ADVANCED - The Mavic 2 Enterprise Advanced (M2EA) is a highly versatile yet compact tool and boasts a high-resolution 640x512 thermal camera as well as a 48MP visual camera. Thanks to the new RTK module, centimeter-level positioning can be achieved. Cost: \$6,500, Quantity: 1
- d. AEE MACH 4 - The AEE Mach 4 is a ruggedized aircraft with rugged Ground Station Controller created to withstand the rigors of field work whether in wet, dusty, windy, or dirty conditions. It has been field-tested in a variety of applications. Ideal for inspections, overwatch, photography, and general UAV use, the aircraft is designed for flexibility to fit virtually any workflow. Cost: Donated, Quantity: 1
- e. SKYDIO 2 - Powered by the Nvidia Jetson Computer System and features a standard 4K camera that shoots at up to 60 fps. The Skydio 2 uses six cameras, with a total of 48MP of resolution, for obstacle avoidance purposes, making it one of the safest drones around, in terms of avoiding a crash. Cost: Donated, Quantity: 1
- f. DJI MINI 2 - Featuring an ultralight and foldable airframe weighing as little as 249 grams that provides ultra-clear 4K video and up to 31 minutes of flight time. This platform is ideal for small spaces and indoor flights when equipped with propeller guards. Cost: \$599, Quantity: 7
- g. PARROT ANAFI THERMAL - Featuring the FLIR® Lepton 3.5 microbolometer (radiometric) thermal imager with a resolution of 160x120. An ultra-compact and portable drone capable of stunning 4K HDR aerial videography, and thermal imaging that can help a variety of professional industries. The dual sensors have been made to work in full synchronization, blending the thermal imaging over the visible footage. Cost: \$1,600, Quantity: 7

2. Purpose:

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

- a. Post-incident crime scene preservation and documentation,

- b. Bomb Squad missions,
- c. Response to hazardous materials spills,
- d. Traffic collision investigations,
- e. Search and Rescue (SAR) missions as defined in the Department SAR Operations Manual,
- f. Public safety and life preservation missions to include, but not be limited to, barricaded suspects, hostage situations, active shooters, apprehension of armed and dangerous and/or violent suspects, and high-risk search warrants,
- g. Disaster response and recovery to include natural or human caused disasters including a full overview of a disaster area for post incident analysis and documentation,
- h. Training flights in support of the Department UAV Training Manual,
- i. For fire response and prevention,
- j. When there is probable cause to believe that (1) the UAV may record images of a place, thing, condition, or event; and (2) that those images would be relevant in proving that a crime had occurred or is occurring, or that a particular person committed or is committing a crime and use of the UAV does not infringe upon the reasonable expectation of privacy,
- k. Pursuant to a search warrant,
- l. Inspection of Orange County property and facilities, to include OCIAC locations designated under the US Department of Homeland Security's Critical Infrastructure Sectors,
- m. Production of video for the Department and other County of Orange agencies/departments for promotional, educational and/or training purposes.

3. Authorized Use:

Only assigned operators who have completed the required training shall be permitted to operate any UAV during approved missions.

4. Expected Lifespan:

All UAV equipment has an estimated lifespan of 3-5 years.

5. Fiscal Impact:

The estimated annual cost of the UAV program maintenance is \$9,000.

6. Training:

All Department UAV operators will be licensed by the Federal Aviation Administration for UAV operation under 14CFR Part 107. In addition, each operator must attend ongoing currency flights and training.

7. Legal and Procedural Rules:

The Department will only deploy the UAV for official law enforcement purposes or approved missions pursuant to applicable Federal & State laws, OCSD UAV Policy 308, and in a manner that respects the privacy of our community.

Hazardous Duty Unmanned Vehicle, Robot: A heavy-duty remote controlled, tracked, robotic ground vehicle equipped with cameras, two-way audio communication, articulating arm with gripper, and a variety of remotely actuated tool options.

1. Description, capabilities, quantity and cost:

Remotec Andros F6A/B hazardous duty unmanned vehicle - A remotely operated hazardous duty robotic platform providing Certified Public Safety Bomb Technicians with the ability to remotely access, investigate, and render safe suspected hazardous devices and items. The F6A/B is a multi-mission platform which also provides Bomb Technicians with the ability to gain access to and observe the interior/exterior of a structure or location. This capability increases the safety of community members, public safety personnel, and suspects by providing the robot operator with the ability to observe and locate subjects and hazardous items without the risk of a face-to-face confrontation or unnecessary exposure to hazardous devices or materials. Additionally, the remote, two-way, communication capability allows personnel to de-escalate situations by negotiating the surrender of barricaded subjects. Robot may be controlled wirelessly with two-way radio frequency transceivers or spooled fiber optic line. Cost: \$250,000, Quantity: 3

2. Purpose:

The Remotec Andros is a multi-mission capable platform, which may be utilized for accessing, investigating, and rendering safe hazardous devices, providing tactical support during SWAT deployments, allowing for two-way communication and remote delivery of throw phones during crisis negotiations, and deployment of various detectors for monitoring hazardous materials.

3. Authorized Use:

The tactical robot shall only be deployed by Department personnel trained in its use, and with the approval of the SWAT Commander, Watch Commander, or their designee.

4. Expected Lifespan:

The remaining lifespan is approximately 5-10 years.

5. Fiscal Impact:

Annual maintenance costs under contract, not to exceed \$10,000.00.

6. Training:

Only Certified Public Safety Bomb Technicians are authorized to deploy the Remotec Andros F6A/B platform operationally. All Bomb Technicians receive robot operations training during the FBI Basic Bomb Technician Certification Course and all robot operators shall receive the initial training before deploying the robot in the field.

7. Legal and Procedural Rules:

The Department shall only utilize the robot for official law enforcement purposes and pursuant to State and Federal Law.

Transcend Vantage Tactical Robot (TR0560): A remotely controlled, tracked, robot equipped with cameras, two-way audio communication, and CS smoke deployment capabilities.

1. Description, capabilities, quantity and cost:

Transcend Vantage Tactical robot - A remotely operated tactical robot providing officers with the ability to observe the interior/exterior of a structure or location. This capability increases the safety of community members, officers, and suspects by providing the operator with the ability to observe and locate subjects without the risk of a face-to-face confrontation. Additionally, the remote, two-way, communication capability allows operators to de-escalate situations by negotiating the surrender of barricaded subjects. It also provides an option of transporting and deploying a CS smoke canister into

an area without exposing personnel to the threat area. Cost: \$10,475, Quantity: 1

2. Purpose:

To be used during tactical incidents to safely search the interior/exterior of structures and locations without exposing officers and/or community members to the risk of a face-to-face confrontation or hazard areas.

3. Authorized Use:

The tactical robot shall only be deployed by Department personnel trained in its use, and with the approval of the SWAT Commander, Watch Commander, or their designee.

4. Expected Lifespan:

The robot's lifespan is approximately 10 years.

5. Fiscal Impact:

Annual maintenance cost of approximately \$500.

6. Training:

All operators shall receive initial training before deploying the robot in the field.

7. Legal and Procedural Rules:

The Department shall only utilize the robot for official law enforcement purposes and pursuant to State and Federal Law.

TELEDYNE – FLIR PACKBOT 525: A transportable multi-mission robot remote controlled, tracked road wheel system, equipped with HD & thermal imaging cameras, 2-way audio communication, capable operating in CBRN & Hazardous Material environments.

1. Description, capabilities, quantity and cost:

Teledyne-Flir PackBot 525 - A remotely operated robot purposely designed to operate in hazardous environments specific to Bomb Squad & Explosive Ordnance Disposal (EOD) operations. This robot gives public safety bomb technicians the ability to examine suspicious items and the ability to perform render safe operations on suspected destructive devices or weapons of mass destruction remotely. It also has the capability to interface CBRN & Hazardous Material sensors on the robot to conduct area surveying to determine if an environment is safe for personnel to enter. With this capability, the robot, operators can maintain a safe distance from the incident and move items remotely without jeopardizing the public or personnel. Cost: \$268,000, Quantity: 2

2. Purpose:

To be used during incidents involving suspected destructive devices, CBRN, Hazardous Materials, explosive environments to limit the exposure of public safety bomb technicians.

3. Authorized Use:

This robot is deployed for incidents involving hazardous environments that present a danger to the public and first responders and can only be operated by FBI trained and certified public safety bomb technicians. The use of the robot is dependent on the situation/incident and authorized by the jurisdiction of the agency the Orange County Sheriff's Department – Hazardous Devices Section (HDS) – Bomb Squad is assisting. Use will be approved by the on-scene Bomb Squad Commander.

4. Expected Life Span:

Life expectancy for this type of robotics platform is 10+ years.

5. Fiscal Impacts:

Annual maintenance cost is expected to be \$500 a year for each robot.

6. Training:

All OCSD HDS personnel will receive initial training prior to the deployment of this robot. Bomb technicians will be required to undergo annual robotics training to maintain proficiency with this piece of equipment. This annual training will also include scheduled maintenance checks to ensure the robot is being properly maintained and in good working condition to deploy on critical incidents.

7. Legal & Procedural Rules:

The Orange County Sheriff's Department shall only utilize the robot for official law enforcement purposes and pursuant to State and Federal Law.

CATEGORY 2 - Mine-resistant ambush-protected (MRAP) vehicles or armored personnel carriers

Armored Rescue Vehicles (ARVs): Commercially-produced, ballistically protected, wheeled vehicles designed for law enforcement purposes.

1. Description, capabilities, quantity and cost:

- a. Lenco BEAR - The Lenco BEAR is an armored rescue vehicle that provides its occupants with ballistic protection beyond ballistic shields or personal body armor. It offers greater safety to community members and officers during high-risk incidents. It is capable of seating a driver and 10-12 passengers. Cost: \$293,745, Quantity: 1
- b. Lenco BEARCAT - The Lenco BEARCAT is an armored rescue vehicle that provides its occupants with ballistic protection beyond ballistic shields or personal body armor, offering greater safety to community members and officers during high-risk incidents. The BEARCAT is smaller than the BEAR, providing greater mobility in tight city streets. The BEARCAT is equipped with a gas injection system as well as a camera pole. It is capable of seating a driver and seven (7) passengers. Cost: \$406,470.63, Quantity: 2
- c. International Armored Group (IAG) Armored Ford F350 Rescue Van - The IAG Armored Van is an armored rescue vehicle that provides its occupants with ballistic protection beyond ballistic shields or personal body armor. It offers greater safety to community members and officers during high-risk incidents. It is capable of seating a driver and 10-12 passengers. Cost: \$146,275, Quantity: 1
- d. Ford E350 Armored Medical Transport Van (MTV) - The Ford E350 Armored MTV is an armored rescue vehicle that provides its occupants with ballistic protection beyond ballistic shields or personal body armor, offering greater safety to community members and officers during high-risk incidents. It is capable of seating a driver and seven (7) passengers. Cost: \$138,000, Quantity: 1

2. Purpose:

Used in response to critical incidents to enhance officers and community safety, improve scene containment and stabilization, and assist in resolving critical incidents. Additionally, the ARVs may be deployed as displays for community outreach events.

3. Authorized Use:

The ARVs' use shall only be authorized by a Watch Commander or SWAT Commander based on the specific circumstances of a given critical incident. ARVs shall only be used by personnel trained in their deployment and in a manner consistent with Department policies/procedures.

4. Expected Lifespan:

All ARVs have an estimated lifespan of 10-15 years.

5. Fiscal Impact:

- a. Lenco BEAR: The Lenco BEAR was purchased in 2005 using UASI grant funding. Annual maintenance cost: \$6,600
- b. Lenco BEARCAT: The Lenco BEARCAT was purchased in 2018 using Department funding. An additional BEARCAT will be purchased in 2023 using Department funding. Annual maintenance cost: \$12,000
- c. International Armored Group (IAG), Armored Ford F350 Rescue Van: The IAG Armored Rescue Van was purchased in 2018 using Department funding. Annual maintenance cost: \$6,000
- d. Ford E350 Armored Medical Transport Van (MTV): The Ford E350 Armored MTV was purchased in 1998 with Department funding. Annual maintenance cost: \$6,000

6. Training:

All drivers/operators shall attend formalized instruction in vehicle operations, practical driving instruction, and deployment procedures.

7. Legal and Procedural Rules:

Armored personnel carriers will only be operated by Department members who have been trained in their operation and according to Department Policy.

Tactical Tractor: Commercially produced, ballistically protected, tractor vehicles designed for law enforcement purposes.

1. Description, capabilities, quantity and cost:

The Ring Power "The Rook" Tactical Tractor is a Caterpillar 299D3 with a cab, A/C, two-speed, self-level, dual level suspension undercarriage, advanced machine information and control system. The ROOK comes equipped with an electro/hydraulic implement control, RH; electro/hydraulic hydrostatic transmission control LH; hand and foot throttle, 12-volt electrical system, 100 ampere alternator, gauges, operator warning system indicators, a cloth seat with an ergonomically contoured armrest and a control interlock system. In addition, the machine carries a Cat C3.8 DIT Turbo, Tier IV compliant diesel engine that has 98 net HP @ 2500 RPM, SOS Sampling valves, Engine Oil and Hydraulic Oil, Tilt up Radiator/Hydraulic Oil Cooler, Lockable Engine Enclosure, 4 Machine Tie Down Points. The ROOK comes with ballistic resistant glass and is SCBA compatible for Hazardous Material and WMD response. NVR (Network Video Recorder), WIFI, Transmitting Capability and dual modem with FirstNet capability. Cost: \$509,799.00, Quantity: 1

2. Purpose:

Used in response to critical incidents to enhance officers and community safety, improve scene containment and stabilization, and assist in resolving critical incidents. Additionally, the tactical tractor may be deployed as displays for community outreach events.

3. Authorized Use:

The tactical tractor's use shall only be authorized by a Watch Commander or SWAT Commander based on the specific circumstances of a given critical incident. Tactical tractor shall only be used by personnel trained in their deployment.

4. Expected Lifespan:

All tactical tractors have an estimated lifespan of 10-15 years.

5. Fiscal Impacts:

Annual maintenance cost is \$6,000.

6. Training:

All drivers/operators shall attend formalized instruction in vehicle operations, practical driving instruction, and deployment procedures.

7. Legal & Procedural Rules:

The Orange County Sheriff's Department shall only utilize the tractor for official law enforcement purposes pursuant to State and Federal Laws.

CATEGORY 3 - High mobility multipurpose wheeled vehicles or vehicles that have a breaching apparatus attached

HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLES (HMMWV): Humvees (HMMWV) are utilized by Department personnel for Search and Rescue transportation as well as parade and non-enforcement special events with community relations programs and the public.

1. Description, capabilities, quantity and cost:

- a. AM GENERAL/H1 - #M1038, Four door, four-wheel drive utility vehicle with light bar, siren, and casualty litter. Assigned to Search and Rescue. Cost: Donated, Quantity: 1
- b. AM GENERAL/H1 - Hummer, Four door, four-wheel drive utility vehicle with light bar, siren. Designated for Public Relations events. Cost: Donated, Quantity: 3

2. Purpose:

Allow personnel to gain access to areas that patrol vehicles cannot traverse while conducting search and rescue operations. Vehicles are also used for public relations events.

3. Authorized Use:

Used in search and rescue operations and public relations events.

4. Expected Lifespan:

An AM General H1 Hummer has an estimated lifespan of 10-15 years.

5. Fiscal Impact:

Annual maintenance cost for each AM General Hummer H1 is approximately \$6,000.

6. Training:

Drivers/operators shall receive safe handling and maneuvering training on a closed training course.

7. Legal and Procedural Rules:

High mobility multipurpose wheeled vehicles will only be operated by Department members who have been trained in their operation and according to Department Policy.

CATEGORY 5 - Command and control vehicles

SWAT Mobile Command Vehicle (MCV): A vehicle used during critical incidents as a field-based command post, providing Incident Commanders with access to Department computer systems and radio communication center.

1. Description, capabilities, quantity and cost:

Chevy C5500 Chassis (North-Star custom built) vehicle - The SWAT MCV is utilized for SWAT/CNT and other critical incidents, significant, preplanned events, searching for missing persons, natural disasters, and community events in which SWAT is involved. Cost: \$230,728.29, Quantity: 1

2. Purpose:

Used for critical incidents based on the circumstances of a specific event, large event, or natural disaster to effectively and efficiently serve the community.

3. Authorized Use:

Only personnel trained in the use and deployment of the MCV, shall drive the vehicle under the direction of the Special Enforcement Bureau or their designee. Situations where the MCV may be deployed include but are not limited to critical incidents, natural disasters, and emergencies.

4. Expected Lifespan:

The MCV has an estimated lifespan of 15-years; however, upgrades are required in 5-year intervals to maintain communications and IT systems.

5. Fiscal Impact:

The MCV was purchased in 2007 using UASI grant funding. Annual maintenance cost is \$5,500.

6. Training:

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

7. Legal and Procedural Rules:

Command and control vehicles will only be operated by department members who have been trained in their operation and according to Department Policy.

Mobile Command Post Trailer (2002 AK Specialty Command Trailer 53'):

1. Description, capabilities, quantity and cost:

The mobile command post (MCP) trailer provides the Department the technological capabilities during civil unrests, protests, special events, and mutual aid requests. The MCP would provide the Mutual Aid Bureau the ability to deploy the trailer to a scene. Cost: \$1,500,000.00, Quantity: 1

2. Purpose:

A vehicle used during critical incidents as a field-based command post, providing Department Members with access to Department computer systems and a radio communication center.

3. Authorized Use:

Only personnel trained in the use and deployment of the MCP, shall drive the vehicle under the direction of the Special Operations Division or their designee. Situations where the MCP may be deployed include but are not limited to critical incidents, natural disasters, and emergencies.

4. Expected Lifespan:

The MCP has an estimated lifespan of 20 years.

5. Fiscal Impacts:

Annual maintenance cost is \$100,000.

6. Training:

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

7. Legal & Procedural Rules:

The Orange County Sheriff's Department shall only utilize the MCP for official law enforcement purposes pursuant to State and Federal Laws.

Mobile Command Post (MCP) (2017 Freightliner M6 40'):

1. Description, capabilities, quantity and cost:

The mobile command post (MCP) gives the Department the technological capabilities during civil unrests, protests, special events, and mutual aid requests. The MCP would give the Mutual Aid Bureau the ability to deploy the additional trailer to a scene. Cost: \$714,998.88, Quantity: 1

2. Purpose:

This is a Class "B" truck-based vehicle. The vehicle is assigned to the OCSD Transportation Bureau (#7412). This is deployed for homicides and other major criminal incidents. The Command Post has a small conference room, several general OCSD workstation computers, and a dispatch center. It has the capability of data satellite communications in the event that it is deployed in remote areas. The Command Post has an onboard generator for powering all of the onboard equipment. The onboard generator draws fuel from the vehicle's fuel tank. The Command Post gets connected to a fixed electrical supply ("Shore Power") via an extension cord as soon as possible. If "shore power" is not available, it can be connected to an external, trailer-mounted generator delivered by OCSD Research and Development. The trailer-mounted generator has its own fuel tank which needs to be refilled approximately every 3-4 days by OC

Public Works.

3. Authorized Use:

Only personnel trained in the use and deployment of the MCP, shall drive the vehicle under the direction of the IRC/Transportation Division or their designee. Situations where the MCP may be deployed include but are not limited to critical incidents, natural disasters, and emergencies.

4. Expected Lifespan:

The Mobile Command Post has an estimated lifespan of 15-20 years.

5. Fiscal Impacts:

Annual maintenance cost is approximately \$15,000.

6. Training:

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

7. Legal & Procedural Rules:

The Orange County Sheriff's Department shall only utilize the MCP for official law enforcement purposes pursuant to State and Federal Laws.

Mobile Command Center (MCC) (2006 Eagle Spartan 40'):

1. Description, capabilities, quantity and cost:

The Mobile Command Center (MCC) provides the Department technological capabilities during civil unrests, protests, special events, and mutual aid requests. The project would give the Mutual Aid Bureau the ability to deploy the MCC to the scene. Cost: \$365,117.00, Quantity: 1

2. Purpose:

This is a Class "B" truck-based vehicle is assigned to the OCSD Transportation Bureau (#7412). This is deployed for homicides and other major criminal incidents. The MCC has a small conference room, several general OCSD workstation computers, and a dispatch center. It has the capability of data satellite communications in the event that it is deployed in remote areas. The MCC has an onboard generator for powering all of the onboard equipment. The onboard generator draws fuel from the vehicle's fuel tank. The MCC gets connected to a fixed electrical supply ("shore power") via an extension cord as soon as possible. If "shore power" is not available, it can be connected to an external, trailer-mounted generator delivered by OCSD Research and Development. The trailer-mounted generator has its own fuel tank which needs to be refilled approximately every 3-4 days by OC Public Works.

3. Authorized Use:

Only personnel trained in the use and deployment of the MCP, shall drive the vehicle under the direction of the IRC/Transportation Division or their designee. Situations where the MCP may be deployed include but are not limited to critical incidents, natural disasters, and emergencies.

4. Expected Lifespan:

The Mobile Command Center has an estimated lifespan of 15-20 years.

5. Fiscal Impacts:

Annual maintenance cost is approximately \$15,000.

6. Training:

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

7. Legal & Procedural Rules:

The Orange County Sheriff's Department shall only utilize the MCC for official law enforcement purposes pursuant to State and Federal Laws.

Mobile Command Trailer (Keystone 30'):

1. Description, capabilities, quantity and cost:

The Mobile Command Trailer (MCT) is an enclosed 2004 Keystone travel trailer approximately 30' in length. The MCT has a small conference table/workstation suitable for at least two laptop computers. It also has dispatch capabilities for 800 MHZ and 400MHZ, an on-board generator, a printer, and two TV monitors for camera downloads or computer screen sharing. Cost: \$0, Acquired through HCA at no cost, Quantity: 1

2. Purpose:

Primarily used for Search and Rescue missions but has the capabilities to assist during civil unrests, protests, special events, and mutual aid requests. A vehicle used during critical incidents as a field-based command post, providing Incident Commanders with access to Department computer systems (via laptop) and, radio communication center.

3. Authorized Use:

Authorized Use: Only personnel trained in the use and deployment of this MCT, shall tow the vehicle under the direction of the Special Operations Division or their designee. Situations where the MCT may be deployed include but are not limited to critical incidents, natural disasters, and emergencies.

4. Expected Lifespan:

The Command Trailer has an estimated lifespan of 20-25 years.

5. Fiscal Impacts:

Annual maintenance cost is \$2,500.

6. Training:

Drivers/operators shall receive safe handling and maneuvering training on a closed training course. Once the driver/operator has shown competence in vehicle towing and handling, the driver/operator will tow the vehicle with an experienced driver throughout the county when needed.

7. Legal & Procedural Rules:

The Orange County Sheriff's Department shall only utilize the MCT for official law enforcement purposes pursuant to State and Federal Laws.

CATEGORY 7 - Battering rams, slugs and breaching apparatuses that are explosive in nature

Breaching Shotguns and Munitions: Shotguns and specialty munitions utilized to access secured structures.

1. Description, capabilities, quantity and cost:

- a. Breaching Shotgun Modified Remington 870 - Remington 870 shotgun modified for breaching- The breaching shotgun is a Remington 870 shotgun that is shortened and modified to improve maneuverability and effectiveness to access structures in a tactical environment. Cost: \$1,000, Quantity: 2
- b. Royal Arms Tesar-1 Orange Cap 275 GR. Copper Frangible - The 12-gauge Royal Arms Tesar-1 Breaching Round is a 12-gauge shell loaded with a compressed copper frangible slug. It is a widely used method to breach door locks or hinges for entry during tactical operations. When properly deployed, the Royal Arms Tesar-1 Breaching Round can defeat door lock mechanisms, doorknobs, hinges, deadbolts, safety chains, and padlocks on both solid wood or hollow core doors. Upon impact with the target, the compressed copper slug disintegrates into a fine powder reducing fragmentation. Cost: \$5, Quantity: 100
- c. Royal Arms Tesar-2 Black Cap 425 GR. Copper Frangible - The 12-gauge Royal Arms Tesar-2 Breaching Round is a 12-gauge shell loaded with a compressed copper frangible slug. It is a widely used method to breach door locks or hinges for entry during tactical operations. When properly deployed, the Royal Arms, Tesar-2 Breaching Round can defeat door lock mechanism, doorknobs, hinges, deadbolts, safety chains, and padlocks on metal doors, solid wood, or hollow core doors. Upon impact with the target, the compressed copper slug disintegrates into a fine powder reducing fragmentation. Cost: \$5, Quantity: 100

2. Purpose:

Used to defeat locking mechanisms on doors or gates to quickly gain access to a structure.

3. Authorized Use:

Breaching shotguns and munitions shall only be utilized by trained members of the Department's SWAT Team.

4. Expected Lifespan:

- a. Remington Breaching Shotguns: 10 years.
- b. Royal Arms Breaching Rounds: 5 years.

5. Fiscal Impact:

Annual maintenance of shotguns is approximately \$250.

6. Training:

All SWAT Team members deploying breaching shotguns and munitions shall receive initial training before utilizing them in the field.

7. Legal and Procedural Rules:

The Department will only utilize breaching shotguns and munitions for official law enforcement purposes in accordance with State and Federal laws.

CATEGORY 8 - Firearms of .50 caliber or greater

Rifles: Shoulder-fired firearms, with rifling cut into its barrel, intended to cause projectiles to spin, improving accuracy over a long distance.

1. Description, capabilities, quantity and cost:

McMillan TAC-50 - .50 Caliber, the McMillan TAC-50 Tactical Rifle features a 29" match grade fluted barrel, Jewel trigger, long range high powered scope, detachable magazine, and gray finish. The McMillan TAC-50 delivers optimal long range accuracy and reliability. Cost: \$12,850, Quantity: 2

2. Purpose:

Used as precision weapons to address threats that exceed the capability of the Department's standard-issue handgun.

3. Authorized Use:

Only members POST certified in the use of the rifle are authorized to deploy them in the field.

4. Expected Lifespan:

MCMILLAN TAC 50 Rifle: 10 years.

5. Fiscal Impact:

Annual maintenance for each rifle is approximately \$100.

6. Training:

Prior to deploying a rifle, members must complete a POST certified course in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize firearms in accordance with State laws, Federal laws and Department policy.

CATEGORY 9 - Ammunition of .50 caliber or greater

1. Description, capabilities, quantity and cost:

H&M .50 Caliber 750 Grain Rifle Round - The H&M .50 Caliber rifle ammunition is loaded to stringent specifications to guarantee proper ignition and provide consistent, pinpoint accuracy. Each component was selected to ensure uniformity which when coupled with strict quality control means that each round will be loaded to the proper length, consistent charges, consistent pressure, optimal velocity, and repeatable accuracy. This 50 BMG ammunition performs as well or better than hand loads. This rifle ammunition is loaded with one of the most accurate and consistent match bullets in the world: the 750 grain A-Max Boat Tail. Coupled with precision swagged cores and manufactured to the tightest standards in the industry. Cost: \$8 per round, Quantity: 100

2. Purpose:

To be used in Department rifles to address lethal threats to the community and Department personnel with greater accuracy, enhancing community safety.

3. Authorized Use:

Only members who are POST certified in the use of the rifle are authorized to utilize rifle ammunition.

4. Expected Lifespan:

The ammunition listed above does not have an expiration date.

5. Fiscal Impact:

The Department budgets \$196,000 annually for all Department firearm ammunition.

6. Training:

Prior to deploying a rifle, Members must complete a POST certified course in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize firearms in accordance with State laws, Federal laws and Department policy.

CATEGORY 10 - Specialized firearms and ammunition of less than .50 caliber

Rifles: Shoulder-fired firearms, with rifling cut into its barrel, intended to cause projectiles to spin, improving accuracy over a long distance.

1. Description, capabilities, quantity and cost:

- a. AR-15 Style .223/5.56 Rifle - A lightweight, shoulder-fired, magazine-fed, gas- operated, rifle with a long spirally grooved barrel intended to make a bullet spin and thereby have greater accuracy over a long distance with greater ballistic capabilities than a pistol. Modular accessories aiding in the operation and use may vary on each individual rifle.

I. Rock River Arms/Hodge Defense HDS/K9 5.56 Rifle- Cost: Donated, Quantity: 20

II. Colt Defense M4/Hodge Defense SWAT 5.56 Rifle- Cost: \$6,650, Quantity: 55

III. 2A Armament Balios 5.56 Rifle - Cost: Donated, Quantity: 2

IV. Barrett REC7 5.56 Rifle - Cost: Donated, Quantity: 1

V. Bravo Company RECCE-16 5.56 Rifle - Cost: \$1,499.99, Quantity: 190

VI. Colt M4 Carbine 5.56 Rifle - Cost: \$1,199.00 Quantity: 286

VII. Daniel Defense DDM4 5.56 Rifle - Cost: Donated, Quantity: 40

VIII. Fabrique Nationale FN 15 5.56 Rifle - Cost: Donated, Quantity: 1

IX. Geissele Super Duty Rifle 5.56 Rifle - Cost: Donated, Quantity: 1

X. Juggernaut JT-15 5.56 Rifle - Cost: Donated, Quantity: 1

- XI. Lewis Machine and Tool LMT Defender 5.56 Rifle - Cost: Donated, Quantity: 2
 - XII. LWRC IC-DI 5.56 Rifle - Cost: Donated, Quantity: 4
 - XIII. Noveske N3 5.56 Rifle - Cost: Donated, Quantity: 3
 - XIV. Radian Model 1 5.56 Rifle - Cost: Donated, Quantity: 1
 - XV. Rock River LAR-15 5.56 Rifle - Cost: \$1,025.00, Quantity: 8
 - XVI. Ruger AR-556 5.56 Rifle - Cost: Donated, Quantity: 2
 - XVII. Smith & Wesson M&P 15 5.56 Rifle - Cost: Donated, Quantity: 25
 - XVIII. Springfield Armory Saint Edge 5.56 Rifle - Cost: Donated, Quantity: 11
- b. Surgeon Scalpel 591 Short Action Tactical Rifle, .308 Caliber, equipped with rifle High/Low Power Magnification Scope and sound suppressor - Surgeon Rifle's Model Scalpel 591 Short Action Tactical Rifle features an 18" Heavy MTU style barrel, low/high power rifle scope, sound suppressor, detachable magazine, Accuracy International FDE Chassis, muzzle break, and Trigger Tech trigger. The Surgeon Scalpel 591 Rifle is built around precision and is capable of. Cost: \$9,800, Quantity: 12
 - c. LaRue Tactical Optimized Battle (OBR) Rifle, .308 Caliber - The Larue OBR 7.62, AR10 Style rifle features a 16.1" barrel, Larue MBT Trigger, Magpul PRS Stock, sound suppressor, and detachable magazine. The Larue OBR is precision built rifle focused on accuracy. The rifle is an AR10 platform which allows for a higher capacity of ammunition in a detachable magazine. Cost: \$8,815, Quantity: 3

2. Purpose:

A precision weapon used to address a threat with more accuracy at greater distances than a handgun.

3. Authorized Use:

Only members POST certified in the use of the rifle are authorized to deploy them in the field.

4. Expected Lifespan:

- a. AR-15 style .223/5.56 rifles listed above have an expected lifespan between 5 and 10 years depending upon use.
- b. Surgeon Scalpel 591 Tactical Rifle: 8 years.
- c. McMillan TAC 50 Rifle: 10 Years
- d. LaRue Tactical Rifle: 8 Years

5. Fiscal Impact:

Annual maintenance for each rifle is approximately \$100.

6. Training:

Prior to deploying a rifle, members must complete a POST certified course in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize firearms in accordance with State laws, Federal laws and Department policy.

Rifle Ammunition: Ammunition specifically designed for use in Department rifles.

1. Description, capabilities, quantity and cost:

- a. Speer, .223 caliber, 62 grain, Gold Dot Soft Point rifle ammunition - The Speer .223 Gold Dot Soft Point rifle round is built with a 62 grain lead projectile encased with a copper jacket with the lead tip exposed. The projectile is designed to deform upon impact to significantly limit the amount of over-penetration past the intended barrier. This ammunition is the current issued duty rifle ammunition for duty rifles. Cost: .51¢ per round, Quantity: 109,630 rounds
- b. Black Hills 5.56 Caliber 62 Grain TSX Rifle Round - The Black Hills 5.56 Caliber TSX rifle round is built with a 62 grain triple shock (TSX) proprietary bullet constructed of 100 percent copper and contains no lead. These bullets typically retain 100 percent of their original weight and are regarded as one of the best performing 5.56 Caliber loads available. Cost: \$1.40 per round, Quantity: 1,000 rounds
- c. Black Hills 5.56 Caliber 77 Grain OTM Rifle Round - The Black Hills 5.56 Caliber 77 OTM rifle round is a precision built bullet with a 77 grain Sierra Open Tip Match (OTM) bullet. It features a boat tail design to improve long range accuracy. The bullet jacket is constructed of a copper-alloy which is harder than other lead materials. Cost: \$1.06 per round, Quantity: 1,000 rounds
- d. Federal/American Eagle .223/5.56 Caliber Training Ammunition. Federal XM193X American Eagle 5.56x45mm NATO 55 grain Full Metal Jacket Boat Tail - American Eagle rifle ammunition offers consistent, accurate performance at a price that's perfect for high-volume shooting. The loads feature quality bullets, reloadable brass cases and dependable primers. Cost: .30¢ per round, Quantity: 12,000 rounds
- e. Federal/Winchester .223/5.56 Caliber Frangible Training Ammunition. Federal and Winchester Frangible .223 Remington ammunition is loaded with a 42 grain Reduced Hazard Training (RHT) bullet. BallistiClean features frangible Reduced Hazard Training bullets that breakup immediately on contact with metal targets, significantly reducing ricochet and backlash danger. BallistiClean loads feature a copper-plated primer and a "NT" (non-toxic) headstamp to clearly identify BallistiClean as a training round at a glance, eliminating confusion with duty rounds. With this Federal ammunition, range operators have no hazardous waste disposal problems and it meets or exceeds all OSHA and EPA standards. Cost: .58¢, Quantity: 1,000 rounds
- f. Federal Gold Medal .308 168 GR Rifle Round - The Federal Gold Medal .308 Winchester ammunition is new production ammo that features a 168 Grain Sierra MatchKing Hollow Point Boat Tail bullet and a non-corrosive boxer primer. The .308 Winchester ammunition has a brand new never fired virgin brass casing that can be reloaded up to seven times for those shooters that reload their .308 Winchester ammunition. Sierra MatchKing Boat-tail bullet with Federal's proprietary delivery system. Federal's Gold Medal .308 Winchester ammo offers a muzzle speed of 2,650 feet per second and muzzle energy of 2,619 foot pounds. Cost: .78¢ per round, Quantity: 12,000 rounds

2. Purpose:

To be used in Department rifles to address lethal threats to the community and Department personnel with greater accuracy, enhancing community safety.

3. Authorized Use:

Only members POST certified in the use of the rifle are authorized to utilize rifle ammunition.

4. Expected Lifespan:

The ammunition listed above does not have an expiration date.

5. Fiscal Impact:

The Department budgets \$680,000 annually for all Department firearm ammunition to include rifle, handgun, and shotgun ammunition. Approximately \$200,000 of the ammunition budget is used for ordering rifle ammunition.

6. Training:

Prior to deploying a rifle, members must complete a POST certified course in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize firearms in accordance with State laws, Federal laws and Department policy.

CATEGORY 12 - Flash-bang devices and munitions containing tear gas or oleoresin capsicum

Sting-Ball: A device used as a crowd management tool.

1. Description, capabilities, quantity and cost:

CTS #9590, #9593, #9594 - Non Irritant Sting-Ball, These less lethal devices are multi- effect with a loud blast, bright flash and dispersion of stinging approximately 180 .31 caliber rubber balls. There is a fuse delay approximately 2.5 seconds with an approximate 50 foot effective radius. This device can be used as a diversionary device as well as less lethal. Cost: \$56.65, Quantity: 324

2. Purpose:

Lawful application of force delivered with the intent to subdue or render non-threatening. The less lethal munitions may be used as an option to de-escalate a potentially dangerous/deadly situation, with a reduced potential for death or serious injury to all persons involved. It is accepted that the probability exists for bodily harm to occur. However, it must also be accepted that the application of such force may be the only alternative to using lethal force to stop the subject's actions.

3. Authorized Use:

Situations where the deployment of less-lethal impact or munitions are authorized include but are not limited to:

- a. Self-destructive, dangerous, and/or combative individuals
- b. Circumstances where a tactical advantage can be obtained

4. Expected Lifespan:

Sting-balls have a life span of 5 years.

5. Fiscal Impact:

Annual maintenance for all sting-balls is \$50 total.

6. Training:

Prior to deploying the Sting-Ball, members must complete a POST certified course in the operation of the Sting-Ball. Additionally, all members that operate any Less Lethal Devices are required to pass a qualification course of instruction according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize less lethal devices in accordance with State laws, Federal laws and Department policy.

Light Sound Diversionary Devices (LSDD): A device used to distract or divert a person's attention.

1. Description, capabilities, quantity and cost:

- a. Combined Tactical Systems, 7290 Flash-Bang - A non-bursting, non-fragmenting, light sound diversionary device that emits a bright light and thunderous noise. Ideal for distracting or diverting a potentially dangerous person's or persons' attention. Cost: \$39.53, Quantity: 0
- b. Combined Tactical Systems, 7290M Mini Flash-Bang - A non-bursting, non-fragmenting, light sound diversionary device that emits a bright light and thunderous noise. Ideal for distracting or diverting a potentially dangerous person's or persons' attention. Cost: \$37.15, Quantity: 115
- c. Combined Tactical Systems, 7290-9 Flash-Bang - A non-bursting, non-fragmenting light sound diversionary device that provides 9 unique flash bang actions within a single hand safe assembly. Cost: \$125, Quantity: 2

2. Purpose:

A light sound diversionary device is ideal for distracting or diverting a person's or persons' attention by emitting a bright light and thunderous noise.

3. Authorized Use:

Light sound diversionary devices shall only be used by trained members of the Department's SWAT Team.

4. Expected Lifespan:

Until deployed.

5. Fiscal Impact:

No annual maintenance.

6. Training:

Prior to deploying a light sound diversionary device, members must complete a POST certified course in the operation of the light sound diversionary device. Additionally, all members that operate any rifle are required to pass a range qualification according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize light sound diversionary devices for official law enforcement purposes and pursuant to State and Federal law.

PepperBall Launcher and Munitions: A device that allows a law enforcement officer to maintain distance from an assailant or crowd.

1. Description, capabilities, quantity and cost:

- a. Tippmann Pepperball Launcher - Semi-automatic, gas operated launcher, gravity feed, steel barrel with charging handle. The safety is a push button, cross bolt trigger safety. It will launch a standard Pepperball projectile. The projectiles are fired at the velocity of between 300 to 380 feet per second. It has approximately 8 to 10 foot pounds of kinetic energy. Target range is 0-30 feet (individual) and a maximum range of 100 feet (area of saturation). Cost: \$199.95 (with loader) each, Quantity: 179
- b. PepperBall Inert Practice Projectiles - Projectiles contain a harmless, scented powder, best suited for practice or direct impact when chemical exposure is not desired, .68 caliber and weigh 3 grams. Cost: .89¢ each, Quantity: 58,996
- c. Live SD™ Projectiles - Projectiles contain 2.0% PAVA. It is effective for direct impact and area saturation. .68 caliber and weighs 3 grams. Cost: \$2.78 each, Quantity: 61,077

2. Purpose:

Lawful application of force delivered with the intent to subdue or render non-threatening. The less lethal munitions may be used as an option to de-escalate a potentially dangerous/deadly situation, with a reduced potential for death or serious injury to all persons involved. It is accepted that the probability exists for bodily harm to occur. However, it must also be accepted that the application of such force may be the only alternative to using lethal force to stop the subject's actions.

3. Authorized Use:

Situations where the deployment of less-lethal impact or munitions are authorized include but are not limited to:

- a. Self-destructive, dangerous, and/or combative individuals
- b. Circumstances where a tactical advantage can be obtained

4. Expected Lifespan:

- a. Tippmann Pepperball Launcher: 20 years.
- b. All Pepperball projectiles have a life span of 3 years.

5. Fiscal Impact:

Annual maintenance for the Tippmann Pepperball Launcher is approximately \$50 each.

6. Training:

Prior to deploying the pepper ball launcher and munitions, members must complete a POST certified course in the operation of the pepper ball launcher. Additionally, all members that operate any less lethal devices are required to pass a qualification course of instruction according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize less lethal devices in accordance with State laws, Federal laws and Department policy.

Chemical Agent and Smoke Canisters: Canisters that disburse chemical agents and/or smoke when deployed.

1. Description, capabilities, quantity and cost:

- a. Combined Tactical Systems, CS Canister, #5230 - The 5230 CS Canister is a large diameter burning device that discharges a high volume of smoke and chemical agent through multiple emission ports. It expels its payload in approximately 20-40 seconds. The payload is discharged through five

emission ports. This launchable canister is 6.20 in. by 2.6 in and holds approximately 100 gm of active agent. Cost: \$27.92, Quantity: 30

- b. Combined Tactical Systems, Outdoor Tactical CS, #8230 - The 8230 Outdoor tactical CS is the smallest diameter burning device that discharges high volume of smoke and chemical agent through multiple emission ports. It expels its payload in approximately 20-40 seconds. This launchable device is 4.90 in. by 1.41 in and holds approximately 195 gm of active agent. Cost: \$21.12, Quantity: 50
- c. Combined Tactical Systems, White Smoke Canister, #5210 - The 5210 White Smoke Canister is a pyrotechnic smoke device used for concealment or as a signaling device. It expels its payload in approximately 20-40 seconds. The payload is discharged through five emission ports. This launchable canister is 6.20 in by 2.60 in and holds approximately 460 gm of active smoke. Cost: \$26.41, Quantity: 30
- d. Defense Technology, CS Spede-heat Continuous Discharge Chemical CS #1072 - The Spede-Heat CS is high volume, continuous burn and it expels its payload in approximately 20-40 seconds. The payload is discharged through four gas ports on top of the canister, three on the side and one on the bottom. This launchable device is 6.12 in. by 2.62 in. and holds approximately 2.9 oz. of active agent. Cost: \$26.66, Quantity: 20
- e. Combined Tactical Systems, CS Canister Baffled Grenade, #5230B - The 5230B CS Canister Baffled Grenade is a large diameter burning grenade that discharges a high volume of smoke and chemical agent through multiple emission ports. It expels its payload in approximately 20-40 seconds. The payload is discharged through four emission ports. This launchable canister is 6.20 in. by 2.6 in and holds approximately 25 gm of active agent. Cost: \$43.00, Quantity: 19

2. Purpose:

Lawful application of force delivered with the intent to subdue or render non-threatening. The less lethal munitions may be used as an option to de-escalate a potentially dangerous/deadly situation, with a reduced potential for death or serious injury to all persons involved. It is accepted that the probability exists for bodily harm to occur. However, it must also be accepted that the application of such force may be the only alternative to using lethal force to stop the subject's actions.

3. Authorized Use:

Situations where the deployment of less-lethal impact or chemical munitions are authorized include but are not limited to:

- a. Self-destructive, dangerous, and/or combative individuals
- b. Circumstances where a tactical advantage can be obtained
- c. Tactical situations involving the deployment of the Department's SWAT Team.

4. Expected Lifespan:

5 years from manufacturing date.

5. Fiscal Impact:

No annual maintenance costs.

6. Training:

Prior to deploying Chemical Agent and Smoke Canisters, members must complete a POST certified course in the operation of Chemical Agent and Smoke Canisters. Additionally, all members that operate any Less Lethal Devices are required to pass a qualification course of instruction according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize chemical munitions in accordance with State laws, Federal laws and Department policy.

CATEGORY 13 - SPECIALIZED TACTICAL EQUIPMENT (CRISIS NEGOTIATIONS TEAM - CNT):

Long Range Acoustic Device (LRAD): The LRAD is a high-intensity directional acoustical array for long-range, crystal clear hailing, notification, and an unmistakable warning tone. The LRAD is primarily used as a communication device.

1. Description, cost, quantity, and capabilities:

Self-contained, portable, and featuring an extended voice broadcast range out to 600 meters, the LRAD 100X ensures voice messages are clearly broadcasted. LRAD's optimized driver, waveguide, and power efficiency technology enables the LRAD 100X to provide several hours of clear, continuous communication from a single battery charge. Cost: \$13,129.27 per LRAD 100X, quantity: 2.

2. Purpose:

To establish a focused, directional sound pattern for targeted communication with subjects in buildings, vehicles, and any other individual within a 600-meter radius. The LRAD 100X ensures law enforcement officers will be able to communicate at a safe distance from the subject. The LRAD 100X may also be used to issue a warning tone.

3. Authorized Use:

The LRAD 100X shall only be used by personnel trained in its deployment and used in a manner consistent with State and Federal law and training.

4. Lifespan:

LRAD 100X has an estimated lifespan of 10-25 years.

5. Fiscal Impact:

Annual maintenance cost of approximately \$300.

6. Training:

All operators shall receive initial training before deploying the LRAD 100X in the field.

7. Legal and Procedural Rules:

The Department shall only utilize the LRAD 100X for official law enforcement purposes and pursuant to State and Federal Laws.

CATEGORY 14 - Kinetic energy weapons and munitions

Less Lethal Remington 870, 12-gauge pump action shotgun and munitions:

1. Description, capabilities, quantity and cost:

- a. Less lethal Remington 870, 12-gauge action shotgun - The Remington 870, 12-gauge shotgun has a receiver mounted side saddle, a fore-end mounted flashlight and three-point sling. The stock is painted "ORANGE". Cost: \$400, Quantity: 96
- b. Remington 870, 12-gauge action shotgun - The Remington 870, 12-gauge shotgun has a receiver mounted side saddle ammunition holder for carrying launching cartridges. It has a fore-end mounted flashlight and three-point sling. The stock is painted "GREEN". This shotgun was modified to fit the Model LC5 launching cup by CTS. Cost: \$400.00, Quantity: 2
- c. Combined Tactical Systems, 2581 12 Gauge Super-Sock Bean Bag, Point Control Impact Munition - The 2581 12-gauge super-sock bean bag is fired with the Remington 870, 12-gauge action shotgun. The 2581-12 super sock bean bag weighs 40 grams and has a terminal velocity of 280 ft. per second and delivers kinetic impact energy. The 2581-12-gauge super sock bean bag is in its deployed state immediately upon exiting the barrel. It does not require a minimum range to "unfold" or "stabilize." The super-sock is an aerodynamic projectile, and its accuracy is relative to the shotgun, barrel length, environmental conditions, and the operator. The optimal fire distance of the super-sock is 10 to 40 feet. The effective range is 75 feet. Cost: \$5.18, Quantity: 5,982
- d. Combined Tactical Systems, 2600-12 gauge launching cartridge munition - The Model 2600 Launching Cartridge is a shortened 12 Gauge cartridge designed to be manually loaded into the chamber for each shot, and used in conjunction with the Model LC5 launching cup. Cost: \$5.50, Quantity: 20

2. Purpose:

Lawful application of force delivered with the intent to subdue or render non-threatening. The less lethal munitions may be used as an option to de-escalate a potentially dangerous/deadly situation, with a reduced potential for death or serious injury to all persons involved. It is accepted that the probability exists for bodily harm to occur, however, it must also be accepted that the application of such force may be the only alternative to using lethal force to stop the subject's actions.

3. Authorized Use:

Situations when the deployment of less-lethal impact or munitions are authorized include, but are not limited to self-destructive, dangerous, and/or combative individuals.

4. Expected Lifespan:

- a. Remington 870, 12-gauge pump action shotgun: 10 years.
- b. 2581-12-gauge super sock bean bag: 5 years.
- c. 2600-12-gauge launching cartridges: 5 years.
- d. LC5-Launching cup: 5 years.

5. Fiscal Impact:

Annual maintenance for the Remington 870, 12-gauge pump action shotgun is approximately \$50 each.

6. Training:

Prior to deploying the less lethal shotgun, members must complete a POST certified course in the operation of less lethal shotguns. Additionally, all members that operate any less lethal devices are required to pass a qualification course of instruction according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize less lethal devices in accordance with State laws, Federal laws and Department policy.

40MM Launchers and Munitions: 40MM Launchers are utilized by Department personnel as a less lethal tool to deploy less lethal impact munitions.

1. Description, capabilities, quantity and cost:

- a. Penn Arms Single Shot Launcher, #L140 - The 40MM single-shot, break-open frame, launcher with a rifled barrel, fixed stock and combo rail. Features include: Double- action trigger, trigger lock push button and hammer lock safeties. It will fire standard 40MM less lethal ammunition, up to 6 inches in cartridge length. It will launch a 40MM less lethal round up to 150 feet. Cost: \$999.80, Quantity: 92
- b. Penn Arms Multi-Shot Launcher, #L540 - The 40MM multi-shot spring-advance magazine drum launcher with a six-shot capacity, rifled barrel, 6-inch cylinder and break-action loading. Spring cylinder advance actuated by trigger pull. The safety is a push button, cross bolt trigger safety. It will fire standard 40MM less lethal ammunition, up to 6 inches in cartridge length. It will launch a 40MM less lethal round up to 150 feet. Cost: \$2,782.07, Quantity: 35
- c. Combined Tactical Systems, 40MM Exact Impact Sponge Round, #4557 - A less lethal 40MM sponge round that is smokeless, spin stabilized and 4 inches long. The 40MM sponge projectile is fired from a single or multi-round purpose-built 40MM Launcher. The 60-gram sponge baton is a spin-stabilized projectile delivering blunt trauma effect. The 40MM exact impact sponge round provides an accurate and effective performance when fired from the approved distance of no less than five (5) feet from the target. The optimal Range for the 40MM sponge round is 10 to 75 feet. Cost: \$18.85, Quantity: 6,364
- d. Combined Tactical Systems, 40MM .60 Cal. Sting-Balls, Smokeless, 4.8-Inch-Long Skip Round, #4558 - The 40MM crowd dispersal cartridge contains a payload of .60 caliber stinging pellets. The 40MM Skip projectile is fired from a single or multi-round purpose-built 40MM Launcher. The Skip firing, aiming the impact munitions toward the ground three (3) to ten (10) feet in front of the target. Skip firing attenuates some of the blunt trauma on the target and reduces the possibility of impacting the human target and reduces the possibility of impacting the human target above the belt line. Cost: \$20.63, Quantity: 2,350
- e. Combined Tactical Systems, 40MM .30 Cal. Sting-Balls, Smokeless, 4.8-Inch-Long Skip Round, #4553 - The 40MM crowd dispersal cartridge contains a payload of .30 caliber stinging pellets. The 40MM Skip projectile is fired from a single or multi-round purpose-built 40MM Launcher. The Skip firing, aiming the impact munitions toward the ground three (3) to ten (10) feet in front of the target. Skip firing attenuates some of the blunt trauma on the target and reduces the possibility of impacting the human target and reduces the possibility of impacting the human target above the belt line. Cost: \$18.53, Quantity: 44
- f. Combined Tactical Systems, 40MM CS Liquid Barricade, Spin Stabilized, 4.1 Inch Long, #4330 - The liquid CS projectile is fired from a single or multi-round purpose- built 40MM Launcher. The Liquid CS filled projectile penetrates intermediate barriers and delivers irritant agents into an adjacent room. When deploying CS liquid projectile, Members should be thirty (30) feet back from the target, aiming

approximately thirty (30) degrees up in angle. Only trained members of the Department's SWAT Team are authorized to deploy the CS liquid projectile. Cost: \$23.50, Quantity: 107

- g. Combined Tactical Systems, 40MM CS Powder Barricade, Spin Stabilized, 4.1 Inch Long, #4431 - The powder CS filled projectile is fired from a single or multi-round purpose-built 40MM Launcher. The Powder CS filled projectile penetrates intermediate barriers and delivers irritant agents into an adjacent room. When deploying CS powder projectile, Members should be thirty (30) feet back from the target, aiming approximately thirty (30) degrees up in angle. Only trained members of the Department's SWAT Team are authorized to deploy the CS powder projectile. Cost: \$23.50, Quantity: 20
- h. Combined Tactical Systems, 40MM Aerial Flash-Bang, 100 Meter Warning Signal, 4.1 inch, #4090-1 - The 40MM Aerial Flash-Bang 100 Meter Warning Signal is fired from a single or multi-round purpose-built 40MM Launcher. The 100-meter 40MM aerial flash-bang produces an intense bright light and sound. It is used to determine intent or used to hail or warn approaching individuals, vehicles, or marine vessels. The light output is between 6 million and 8 million candela. The sound output is between 165- 175 dB. The effective range is 100 Meters. Cost: \$39, Quantity: 6
- i. Combined Tactical Systems, 40MM Aerial Flash-Bang, 200 Meter Warning Signal, 4.1 inch, #4090-2 - The 40MM Aerial Flash-Bang 200 Meter Warning Signal is fired from a single or multi-round purpose-built 40MM Launcher. The 200-meter 40MM aerial flash-bang produces an intense bright light and sound. It is used to determine intent or used to hail or warn approaching individuals, vehicles, or marine vessels. The light output is between 6 million and 8 million candela. The sound output is between 165- 175 dB. The effective range is 200 Meters. Cost: \$39, Quantity: 8
- j. Combined Tactical Systems, 40MM Aerial Flash-Bang, 300 Meter Warning Signal, 4.1 inch, #4090-3 - The 40MM Aerial Flash-Bang 300 Meter Warning Signal is fired from a single or multi-round purpose-built 40MM Launcher. The 300-meter 40MM aerial flash-bang produces an intense bright light and sound. It is used to determine intent or used to hail or warn approaching individuals, vehicles, or marine vessels. The light output is between 6 million and 8 million candela. The sound output is between 165-175 dB. The effective range is 300 Meters. Cost: \$39, Quantity: 8

2. Purpose:

Lawful application of force delivered with the intent to subdue or render non-threatening. The less lethal munitions may be used as an option to de-escalate a potentially dangerous/deadly situation, with a reduced potential for death or serious injury to all persons involved. It is accepted that the probability exists for bodily harm to occur. However, it must also be accepted that the application of such force may be the only alternative to using lethal force to stop the subject's actions.

3. Authorized Use:

Situations where the deployment of less lethal impact or chemical munitions are authorized include but are not limited to:

- a. Self-destructive, dangerous, and/or combative individuals
- b. Circumstances where a tactical advantage can be obtained
- c. Tactical situations involving the deployment of the Department's SWAT Team.

4. Expected Lifespan:

- a. Penn Arms Single/Multi Shot Launcher: 15 Years.
- b. All munitions listed above: 5 years.
- c.

5. Fiscal Impact:

Annual maintenance for the single/multi shot launchers is approximately \$50 each.

6. Training:

Prior to deploying 40MM Launchers and Munitions, members must complete a POST certified course in the operation of 40MM Launchers and Munitions. Additionally, all members that operate any Less Lethal Devices are required to pass a qualification course of instruction according to Department policy.

7. Legal and Procedural Rules:

The Department will only utilize less lethal devices in accordance with State laws, Federal laws and Department policy.