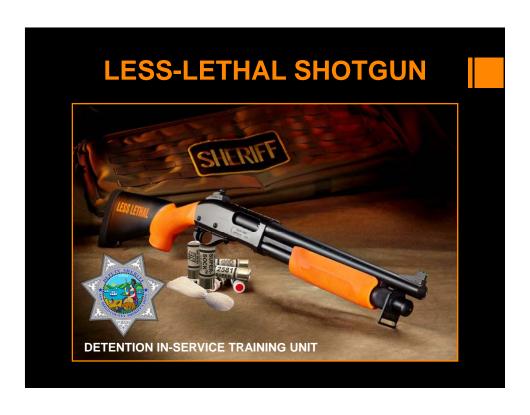
	Course Title:		1,	ess Lethal	
Certification:		STC#04162054 Stilliger Grenade STC#08267337 40mm		C33 Letriai	
Certification Date:		5/20/19 Pepperball 05/21/19 LL Shotgun 00/00/00 Stinger Grenade 05/20/19 40MM			
Expiration Date:		5/20/2021 Pepperball 05/21/2021 LL Shotgun 00/00/00 Stinger Grenade 05/20/21 40MM			
Review Date:		Pepperball       06/29/19         LL Shotgun       06/29/19         Stinger Grenade       06/29/19         40MM       06/29/19			
Time Block	Estimated Time	Learning Objective	Topic	Brief Overview of Topic/Instruction	Instructor
0700-0800	60	Introduction to Less Lethal Shotgun	Less Lethal Device Bean-Bag Shotgun	Department policy, firearms safety rules, nomenclature, loading and unloading, bean bag characteristics, deployment considerations, general care.	DTU Staff
0800-0810	10	Break 0800-0810			
0800-1100	180	Less Lethal Shotgun application and deployment	Less Lethal Device Bean-Bag Shotgun	List firearm safety rules, demonstrate Patrol Ready, chamber challenge and safely unload. Give verbal warnings, deploy two rounds on pre-staged target.	DTU Staff
1100-1200	60	Lunch 1100-1200			
1200-1300	60	Introduction to Pepperball Launcher	Less Lethal Device Pepperball Launcher	Department policy, nomenclature, launcher operations, chemical agent effects, projectile characteristics, deployment considerations, general care.	DTU Staff
1300-1310	10	Break 0800-0810			
1310-1600	180	Pepperball Launcher application and deployment	Less Lethal Device Pepperball Launcher	Demonstrate how to make Pepperball launcher operational, deploy training roundson pre-staged target. Loud verbal commands, deploy training rounds on primary and secondary target and demonstrate how to make the device safe.	DTU Staff
Day 2					
0700-0800	60	Introduction to Stinger Grenade	Less Lethal Device Stinger Grenade	Identify nomenclature, effects, deployment considerations, tactical commands/strategies, render safe procedures, and ATF reporting.	DTU Staff
0800-0810	10	Break 0800-0810			
810-1100	170	Stinger Grenade application and deployment	Less Lethal Device Stinger Grenade	Verbally describe how to ready the Stinger Grenade. Explain where and how to deploy device. Student will deploy on instructors command.	DTU Staff
1100-1200	60	Lunch 1100-1200			
1200-1300	60	Introduction to 40MM Single and Multi-Launcher	Less Lethal Device 40MM Launcher	Department policy, types of munitions, function check, deployment considerations, general care.	DTU Staff
1300-1310	10	Break 1300-1310			
1300-1600	180	40MM Single and Multi- Launcher practical application/deployment	Less Lethal Device 40MM Launcher	Describe the single and multi-shot 40mm less lethal launcher platform nomenclature. Demonstrate a functions check. Give lound verbal commands, deploy the single and multi-shot launcher on static targets. Demonstrate how to make the device safe.	DTU Staff



# **P&P REVIEW**

- I.85 USE OF DEFENSIVE DEVICES

  https://ssp.sdsheriff.com/DSB/DetentionPP/Section%20I%20Securit
  Use%20of%20Defensive%20Devices.pdf
- I.89 USE OF FORCE
- ADDENDUM F: USE OF FORCE GUIDELINES
- FACILITY GREEN SHEETS & POST ORDERS

#### **FIREARMS SAFETY RULES**

- ✓ Treat every weapon as if it were loaded.
- Never point a weapon at anything you don't intend to shoot.
- Keep your finger straight and off the trigger until you intend to deploy.
- Be mindful of your target's background, and surrounding areas.

# **Addendum F**

#### **Less Lethal Force:**

A lawful and within policy application of force delivered with the intent to subdue a subject, rendering them non-threatening and/or to gain their compliance.

Force includes the pointing of any firearm or weapon designed to fire a projectile and any incident involving the actual or attempted detention of a subject at gunpoint (defined as holding the barrel of a weapon on target).

#### **Intermediate weapons:**

Hard intermediate weapon control includes saps and batons when used to deliver strikes. Less lethal munitions used for long range impact also fall within the intermediate weapon's category.

# **Addendum F (Continued)**

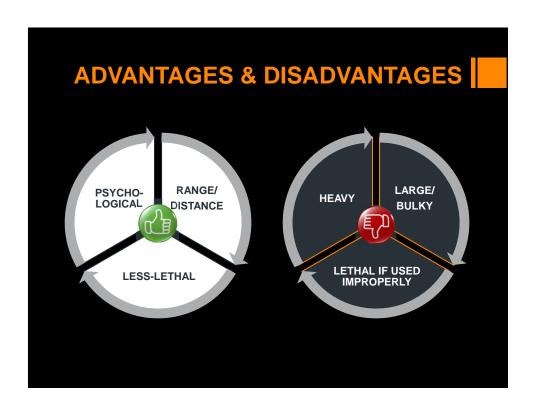
#### **Less Lethal Munitions:**

Extended range, kinetic energy impact specialty munitions that may be used from a distance ("Bean Bag", PepperBall, LL 40mm).

#### **Less Lethal specialty munitions:**

Projectiles used to stop aggressive behavior which, if not stopped, may result in injury or death. These projectiles are manufactured from wood, foam rubber, and other softer-than-lead materials. When used properly, by trained personnel, this type of munition is less likely to result in death or serious injury.

# PRIORITY OF HUMAN LIFE 1. HOSTAGES & INNOCENT CIVILIANS 2. LAW ENFORCEMENT PERSONNEL 3. SUSPECTS



# **USES FOR LESS LETHAL SHOTGUN**

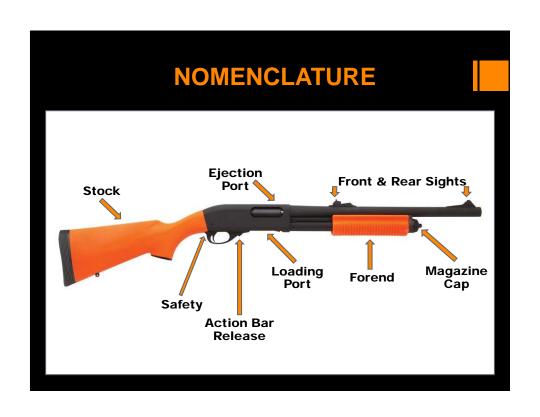
- Riot and Crowd Control.
- Armed subjects in custody.
- Subjects displaying assaultive behavior and/or aggravated active aggression.
- Tactical Operations.

# **LOADING AND UNLOADING**

- PATROL READY
- UNLOAD FROM PATROL READY
- UNLOAD FROM CHAMBER CHALLENGE







# **RESPONSIBILITY**

- YOU are responsible for the rounds loaded into the shotgun
- **YOU** are responsible for all rounds discharged from the shotgun.
- **ALWAYS** verify 12ga. rounds are less lethal (CTS # 2581 Super-Sock) before loading the less lethal shotgun.







# **OPTIMUM RANGE**

0 feet - Minimum 50 feet - Maximum

# **ISSUES**

Penetration
Energy
Accuracy
Flight Stability

# **KINETIC ENERGY**

- A form of energy created by the movement of mass.
- It is expressed in foot pounds.
- A foot pound is the amount of energy it takes to move one pound a distance of one foot.

#### **ENERGY COMPARISON**

- CPR compressions generate approximately .5 ft./lbs.
- A fastball generates approximately 97 ft./lbs.
- A .38 Special generates approximately . 377 ft./lbs.
- A CTS #2581 Super Sock less lethal round generates approximately 110 ft./lbs.

#### **BLUNT FORCE**

Upon contact with the human body. A blunt object creates a "SHOCK WAVE" effect. This is a product of the energy (Speed + Mass) delivered by the impact.

#### **BLUNT TRAUMA INJURY**

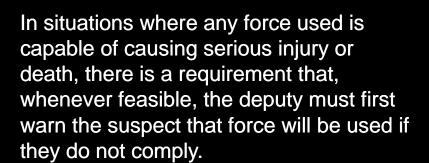
Compression of the tissues beyond their recoverable limit is the general injury mechanism associated with blunt trauma. If the compression is too fast, too deep, or a combination of both, serious injury or death may result.

# **POTENTIAL INJURIES**

- Damage to organs and blood vessels are the dominant injuries associated with blunt force trauma.
- Penetrating Trauma: The unintended and most undesirable outcome in the use of less lethal specialty munitions.
- Serious Injury: "means a serious impairment of physical condition, including but not limited to: loss of consciousness, concussion, bone fracture, protracted loss or impairment of function of any bodily member or organ, a wound requiring extensive suturing, and serious disfigurement." - Addendum F



# **VERBAL WARNINGS**



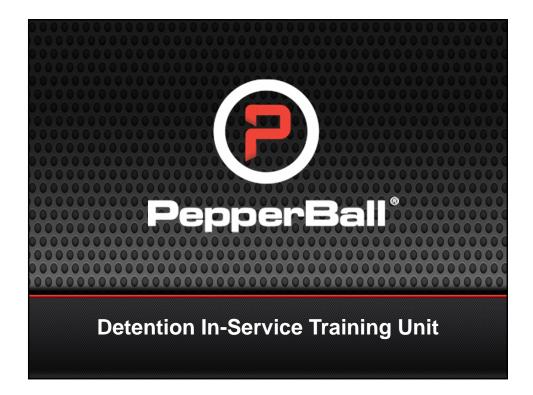
- ADDENDUM F SECTION: USE OF FORCE GUIDELINES



# **REPORTING PROCEDURES:**

- Notify supervisor as soon as practical, but no later than end of shift.
- Take photographs and document details promptly.
- Render fist aid to subjects who were struck by a specialty munition.
- Force includes the pointing of any firearm or weapon designed to fire a projectile
- One SO-120 Supplemental Report must be completed for each inmate struck by the Super Sock in NetRMS.
- In the event of death caused by a specialty munition, Department personnel will follow the procedures set forth in section 8.2 of the Sheriff's Department Manual of Policy and Procedures and in the detentions setting, section M.7 of the Detentions Services Policy and Procedure.





# PEPPERBALL DEFINED

- ■PepperBall is a less-lethal chemical agent delivery system that uses high-pressure air launchers to deliver chemical agents from a safe distance.
- Combines chemical agent exposure with kinetic impact.

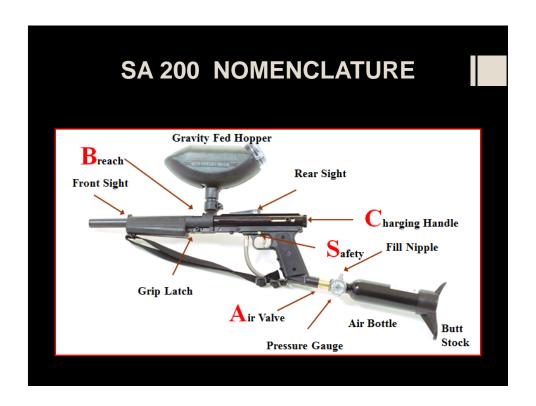
#### **ADDENDUM F**

- Less lethal munitions used for long range impact and electronic immobilization devices also falls within the intermediate weapon's category.
- Non-lethal chemical agents are used as a means of overcoming resistive or aggressive behavior. They may be used prior to hands-on control, if a physical confrontation appears to be unavoidable and injury may result.

#### **P&P REVIEW**

- I.85 USE OF DEFENSIVE DEVICES\*
  - https://ssp.sdsheriff.com/DSB/DetentionPP/Section%20I%20Security%20and%20Control/I.85%20Use %20of%20Defensive%20Devices.pdf
- I.89 USE OF FORCE
  - https://ssp.sdsheriff.com/DSB/DetentionPP/Section%20I%20Security%20and%20Control/I.89%20Use %20of%20Force.pdf
- ADENDUM F: USE OF FORCE GUIDELINES
  - https://ssp.sdsheriff.com/DepartmentResources/DeptPP/Procedures%20Section/Use%20of%20Forc %20Guidelines-Addendum%20F.pdf
- FACILITY GREEN SHEETS & POST ORDERS















# WHAT IS A PEPPERBALL PAVA?



- PAVA is one of six capsaicinoids found in pepper plants.
- PAVA is one of the hottest capsaicinoids and is an amide of Pelargonic Acid and Vanillylamine (thus, PAVA).
- PepperBall® products contain only purified non-oil based PAVA.
- PepperBall Technologies Inc. PAVA is produced at a pharmaceutical grade
- PAVA is also used in Tabasco sauce, spice packs and cooking oils
- PepperBall PAVA is non Flammable









# ANAPHYLACTIC SHOCK / REACTION



- 005% Are allergic to O C
- Anaphylaxis is a severe, whole-body allergic reaction to a chemical that has become an allergen.
- Symptoms develop rapidly, often within seconds or minutes
- Symptoms may include the following:
- ✓ Abdominal Pain/Cramping
- ✓ Abnormal Breathing Sounds
- ✓ Anxiety
- ✓ Confusion
- ✓ Cough
- ✓ Diarrhea
- ✓ Difficulty Breathing
- ✓ Difficulty Swallowing

- ✓ Fainting, Light-Headaches
- ✓ Hives, Itchiness
- ✓ Nasal Congestion
- ✓ Palpitations
- ✓ Skin Redness
- ✓ Slurred Speech
- ✓ Wheezing

# **DECONTAMINATION**



- Fresh Air and Cool Clean Water
- Normal Recovery Time 10 minutes
- Keep Calm
- Assure Suspect is Safe
- Condition Temporary
- Unusual Reaction
- Cross-contamination



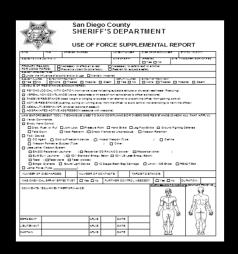


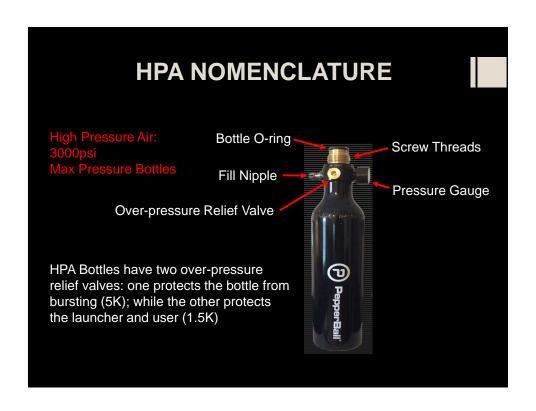


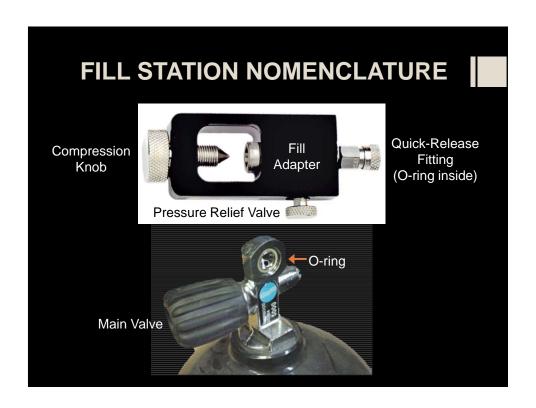
# **REPORTING PROCEDURES**



- One SO-120 Supplemental Report must be completed for each inmate struck by the PepperBall Launcher in NetRMS
- Again, photograph all injuries. Ensure to take the photos ASAP. Do not wait a prolonged period of time to take the photos!



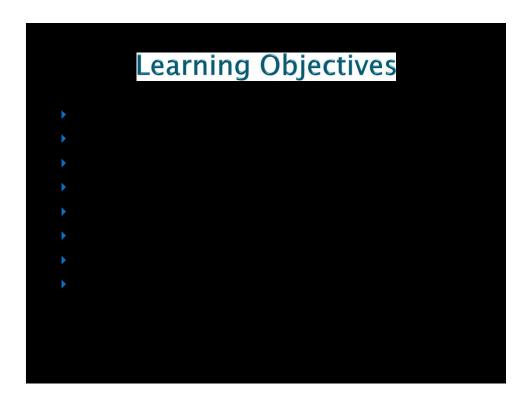




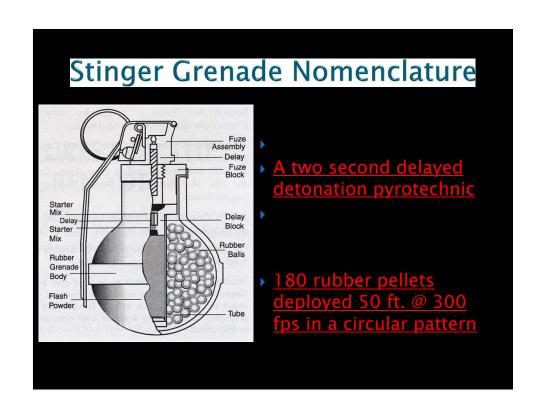




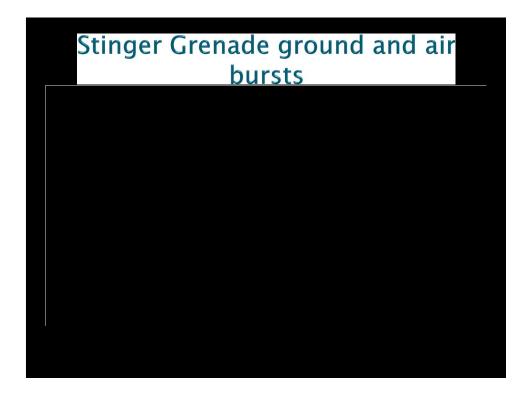








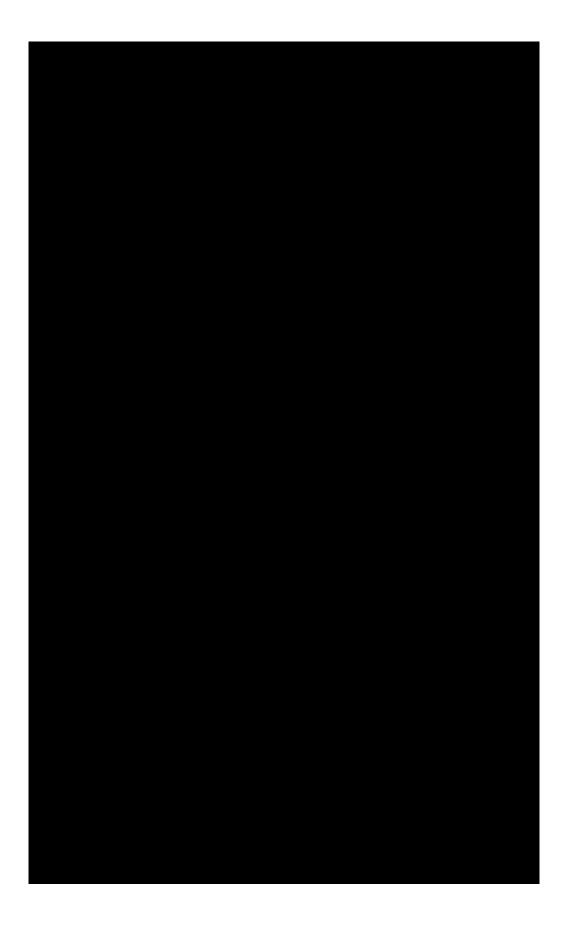




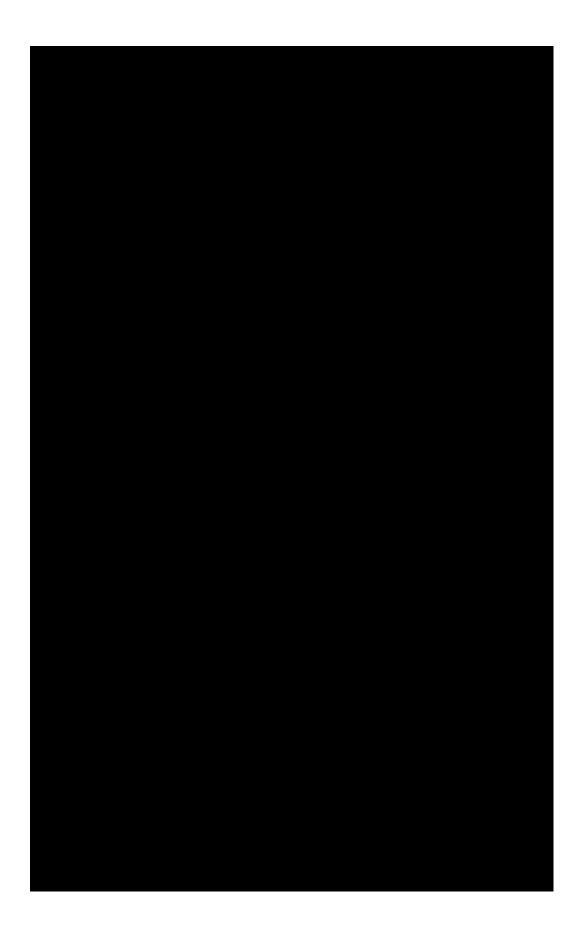


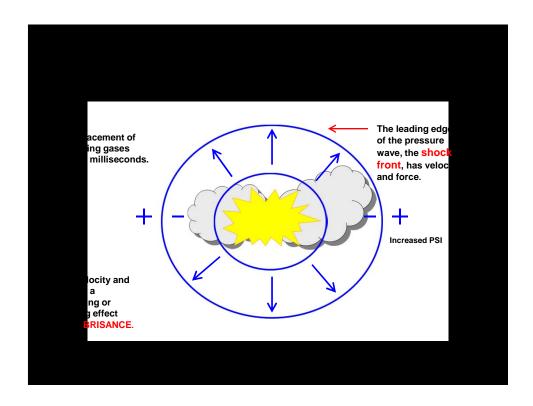


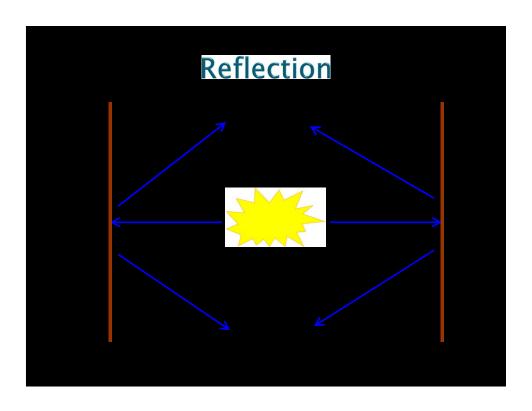


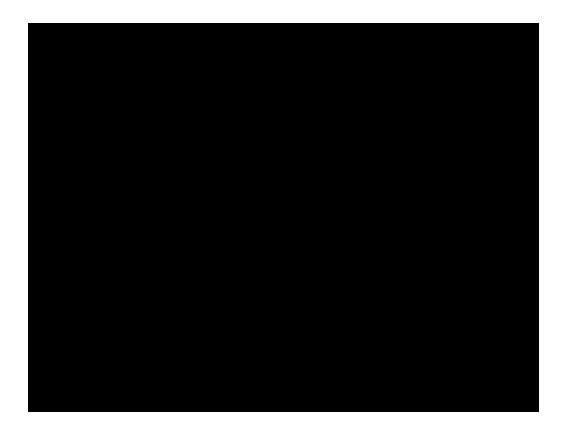










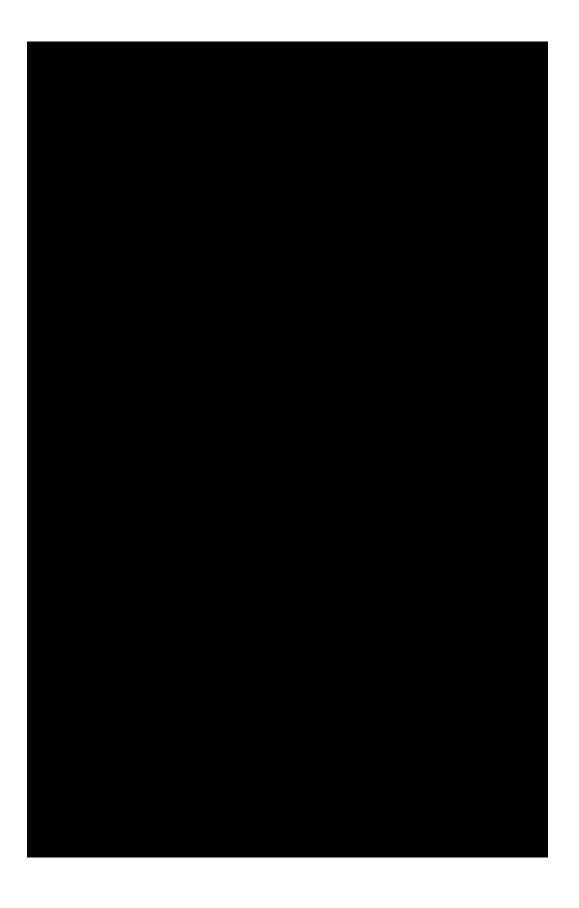














Render Safe Procedures

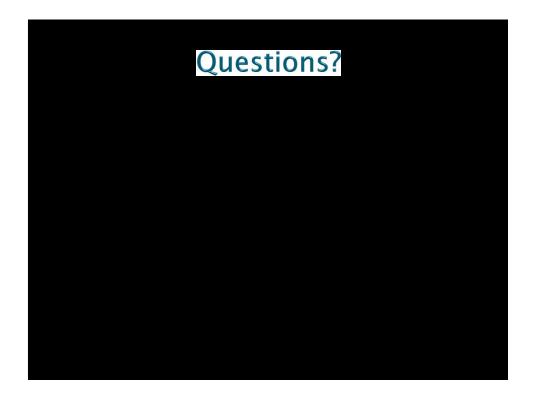
# ATF Reporting

 Whenever a Stinger Grenade is deployed a report must be filed with the Bureau of Alcohol Tobacco and Fire Arms (ATF).

•

### **Common Errors**

- •

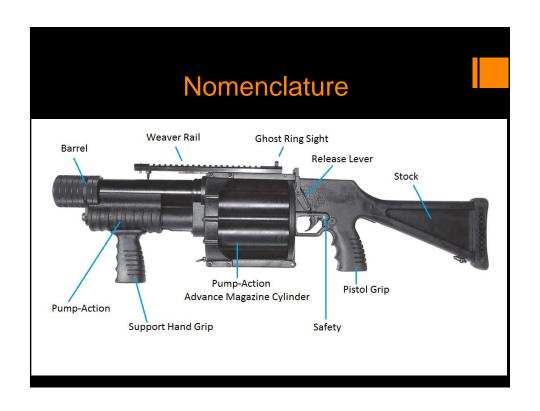


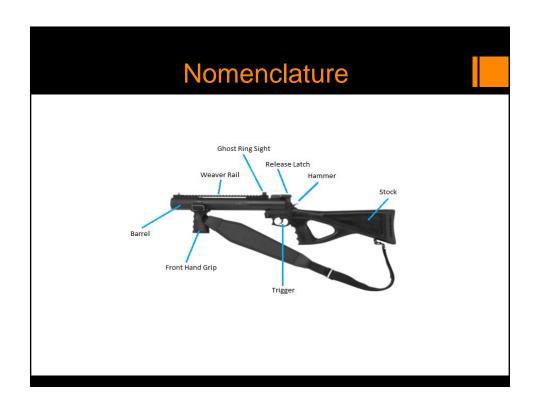


#### **LEARNING OBJECTIVES**

- Characteristics and types of 40 MM munitions
- Demonstrate function check and operation
- Discuss deployment considerations
- General Care
- Practical Application





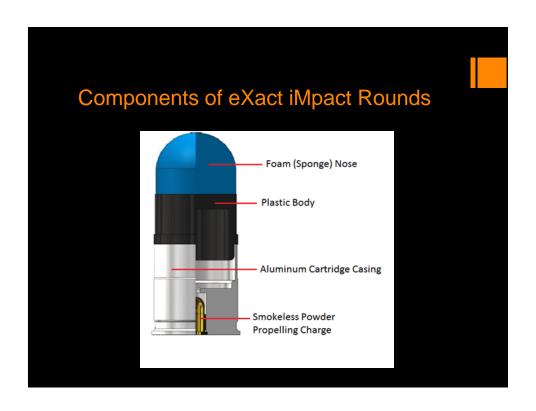










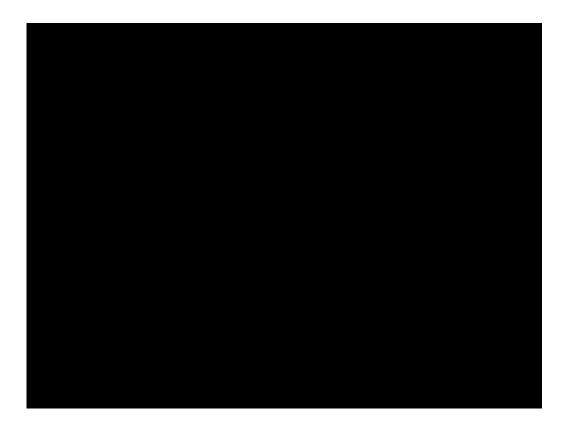




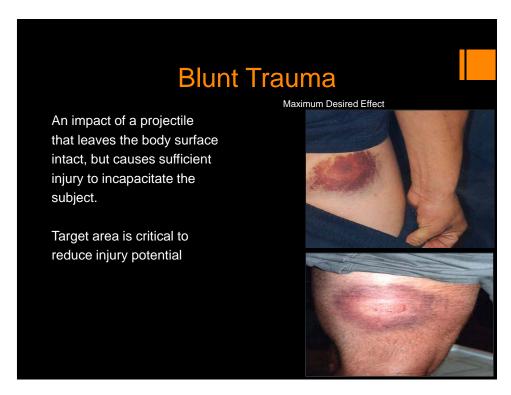












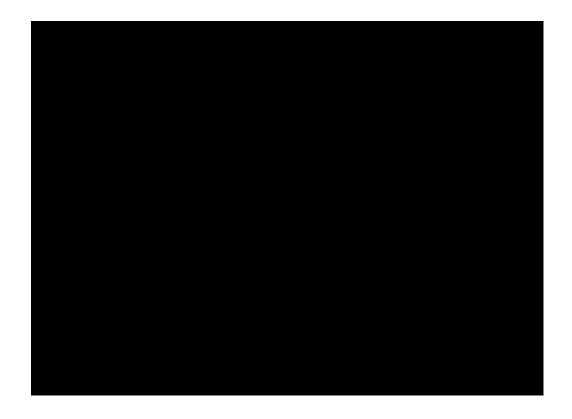




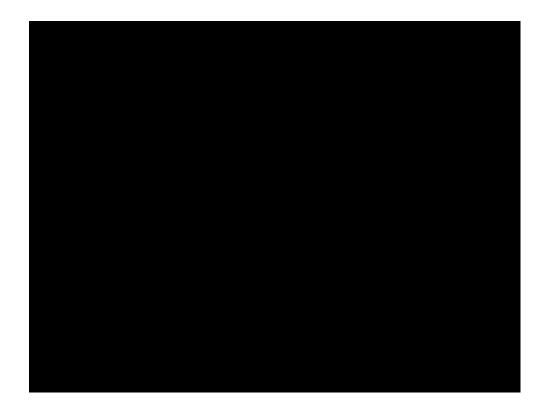




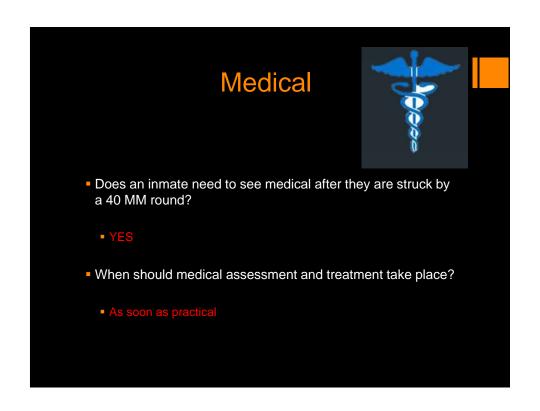


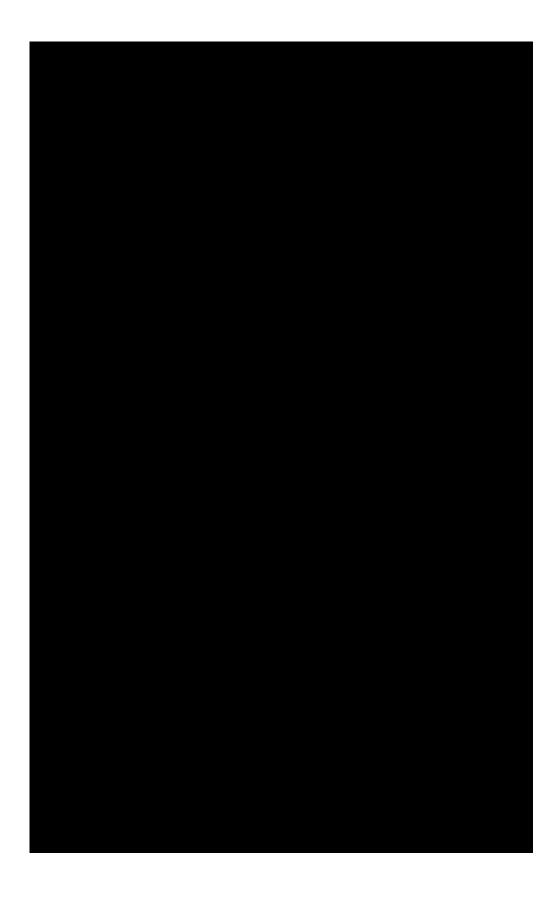


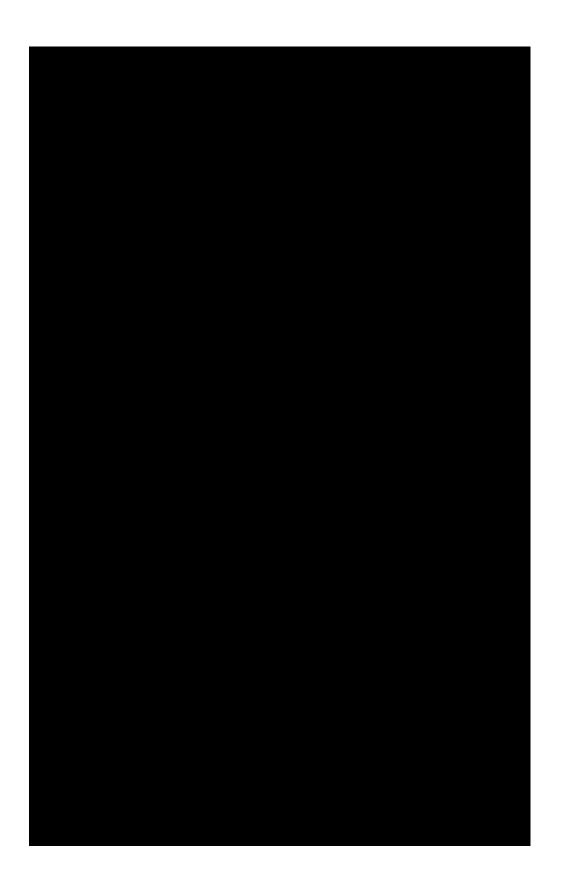


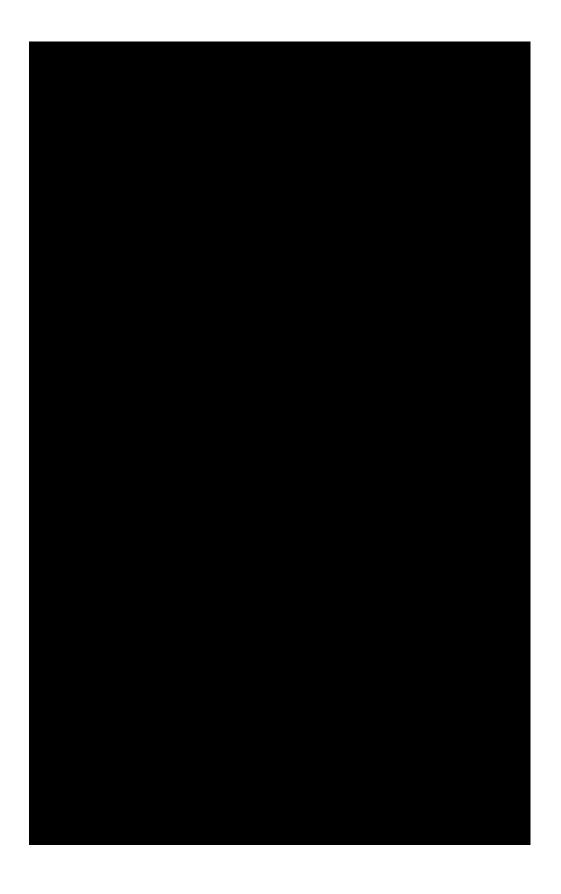












## Maintenance Detailed Cleaning

- Cleaning should be conducted after firing or stored for extended period of time with hot soapy water and Break Free CLP.
- Clean barrel out with a 37/40 MM Cloth Bore Brush. Avoid wire brushes.
- <u>DO NOT</u> use oil or lubricant in the bore.

#### Wrap Up



- Be familiar with the operation of the 40 MM
- Types of munitions utilized
- Cleaning and Maintenance
- Be familiar with Detentions P&P Sections as it pertains to the use of less-lethal Defensive Devices and Use of Force, Addendum F

