



Amaknak Formerly Used Defense Site Unexploded Ordinance and Chemical Agent Recognize, Retreat, Report Safety Training

> 12:00-2:00 PM Monday, August 30, 2021

Join by Phone: Teleconference Call: (844) 800-2712 Access Code: 199 212 1820#

For more information, please contact Ms. Rena Flint, FUDS Project Manager, by phone at (907) 753-2680 office, (907) 201-3108 cell, or by email at Rena.B.Flint@usace.army.mil.

Please visit https://www.poa.usace.army.mil/Library/reports-and-Studies, under the "Documents Available for Review" section, under the Environmental Cleanup section.

Or please contact, USACE- Alaska District Public Affairs Office, by phone at (907) 753-2520, or by email at Public.affairs3@usace.army.mil.

In addition to training Open to Community, UXO/CWM 3Rs Safety Training will be available to the Department of Public Safety (Aug 31) and the Amaknak FUDS Restoration Advisory Board (Aug 20). To join another meeting, please reach out to Ms. Rena Flint.

Introduction to found Military Munitions and the 3 R's of Explosive Safety

- Brian D McComas
- Ordnance and Explosives Safety Specialist (OESS)
- CEHNC OES



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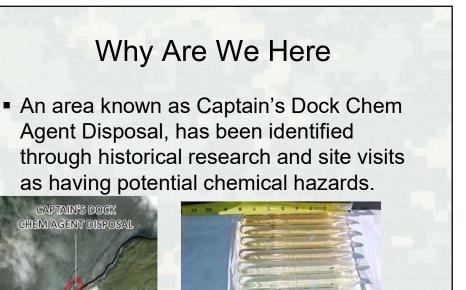
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Why Are We Here

■ The former Amaknak Military Facilities were used from 1911 to 1952.



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Why Are We Here

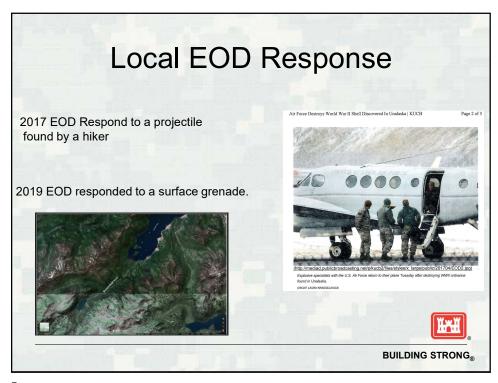
The Naval Facility assisted in the air defense of the harbor and operated an Anti-Aircraft Training Center (AATC) with firing ranges located on the Northwest side of Mount Ballyhoo on Amaknak Island.

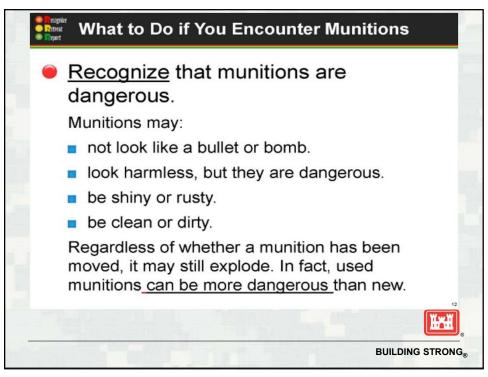


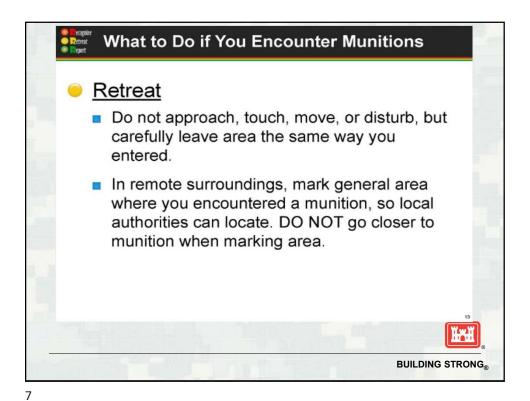


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Report what you saw and where you saw it.

Call 911

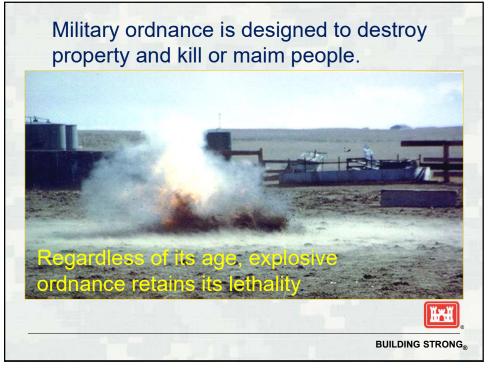
Authorities will clear area, and trained Explosives
Ordnance Disposal (EOD)
personnel will dispose of item.



- Culebra Puerto Rico: Current Formerly Used Defense Site (FUDS) Flamenco Beach, a young girl received burns.
- Oklahoma: In 2007 a young man was injured while digging for crystals on a former military installation.
- McGregor Range in New Mexico: Two women injured by an Unexploded Ordnance item while searching for scrap metal on an active range.



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Unexploded Ordnance (UXO)

- Military munitions that have been:
- primed, fuzed, armed, or otherwise prepared for action, and have been
- fired, dropped, launched, projected or placed in such a manner as to constitute a hazard to operations, installation, personnel, or material and
- remain unexploded either by malfunction, design, or any other cause. It should be noted that DMM although never fired or armed could in fact become UXO when subjected to abnormal Environments.

[Military Munitions Rule 40 CFR 266.201]

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Discarded Military Munitions (DMM)

• Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal.



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Live Military Munitions

- These items are used to kill, maim, area denial, destroy property etc.
- They have in most cases three explosive components:
- 1. Initiating Explosives
- 2. Booster (optional)
- 3. Main Charge or Chemical Agent



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Practice Munitions

- Practice munitions are used to simulate service ammunition.
- In practice munitions, the main charge is replaced by inert fill.
- Practice munitions normally contain a spotting charge. (Still Dangerous)



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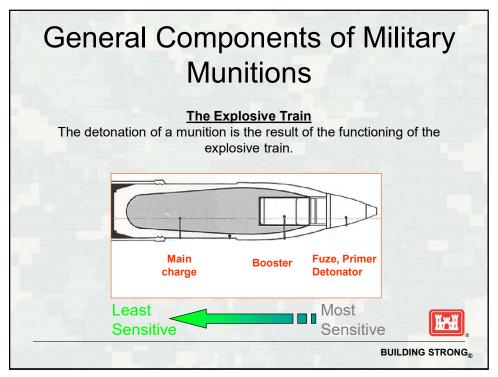
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Training (Drill) Munitions

- Training munitions are used to allow gunners to practice loading and firing the weapons systems
- Training ammunition is inert.



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Munitions Delivery Systems

- Fired, Launched or Projected
 - ▶ Projectiles, mortars, rifle grenades, rockets, missiles
- Dropped
 - ▶ Bombs and Dispensers
- Placed
 - ▶ Landmines, naval mines
- Thrown
 - ▶ Hand grenades



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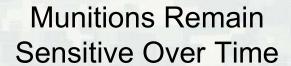
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Causes of UXO

- User error
- Improper fuze setting
- Malfunctioning of fuze
- Effects of an Abnormal Environment (kickout)



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- Fuze mechanisms can remain sensitive as they age.
- Some explosives degrade and form shock-sensitive salts over time.
- Some chemical fills do not significantly degrade over time.
- Some propellants become more sensitive over time due to loss of stabilizing agents.



Civil War Era



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Recognizing Hazards

A person's ability to recognize Military Munitions is the first and most important step in reducing the risk posed by explosive/chemical hazards



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Types of Military Munitions

- Grenades
- Rockets
- Projectiles/Mortars
- Guided missiles
- Bombs
- Submunitions/Improved Conventional Munitions (ICM)
- Mines
- Small arms ammunition

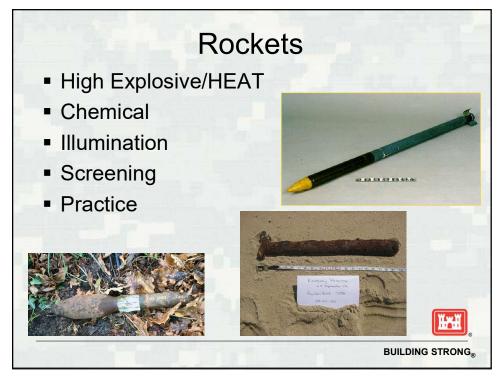


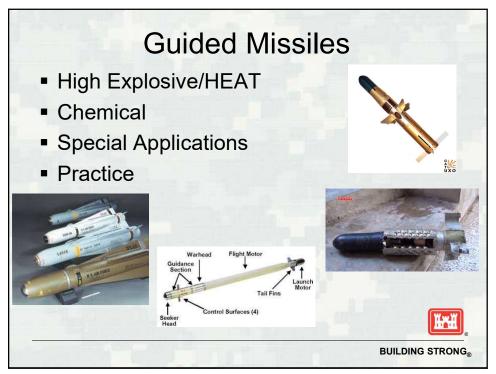
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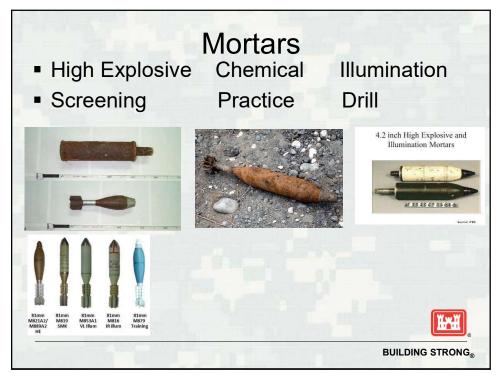








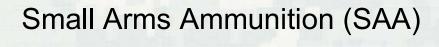












- .50 caliber and smaller ammunition
- Typically do not contain explosive hazards.
- Pose no significant explosive hazard.
- Refer to this as SAA.



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Explosive Hazards and Safety Considerations

- Explosive Hazards
- Chemical Hazards
- What to do if <u>you</u> find a Military Munition



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Basic Considerations

 Unknown explosives, consider it to be the most hazardous type, hazardous features and hazardous condition



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High Explosives (HE)

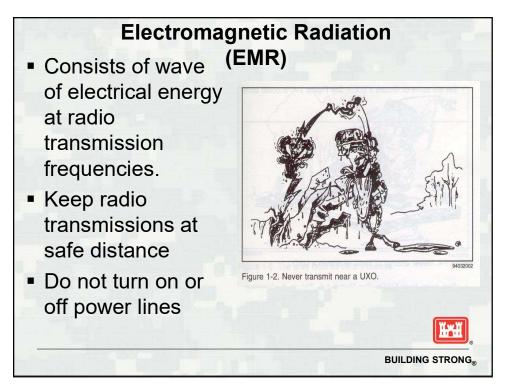
- Heat, shock, friction
- Sunlight, Sensitivity
- Proper container
- Gloves, wash hand
- Protective gear for smoke and fumes
- DO NOT TOUCH!!

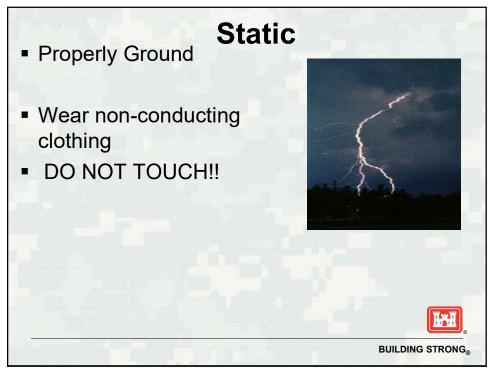




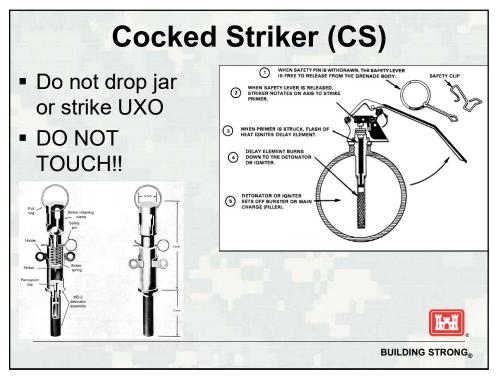
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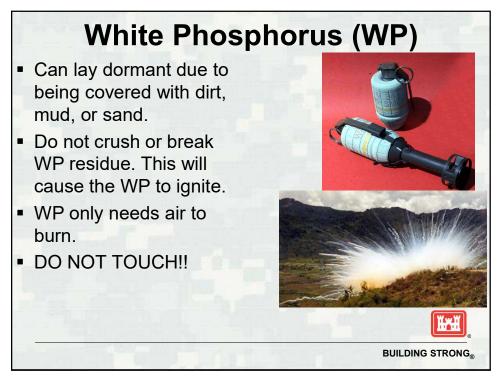


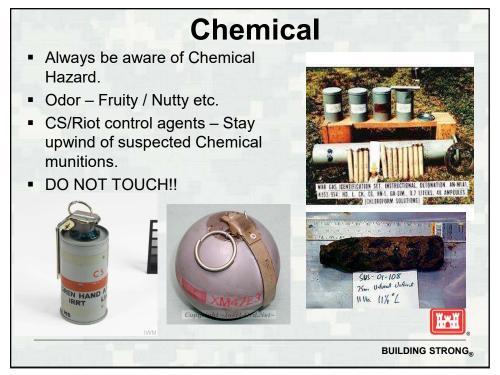


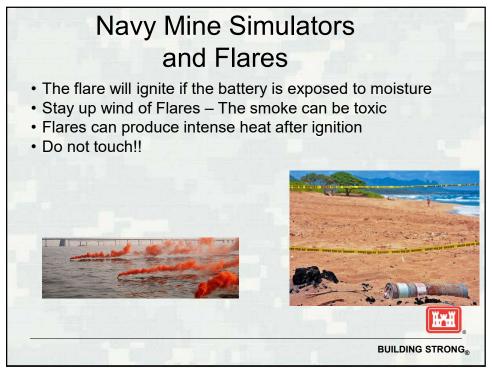


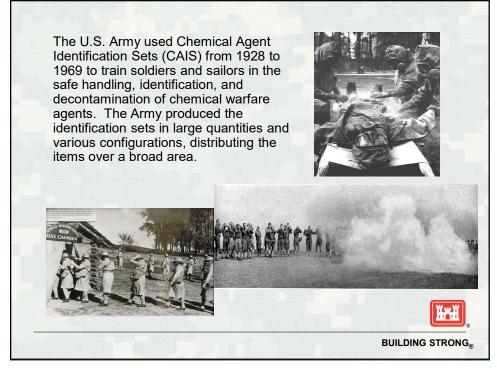


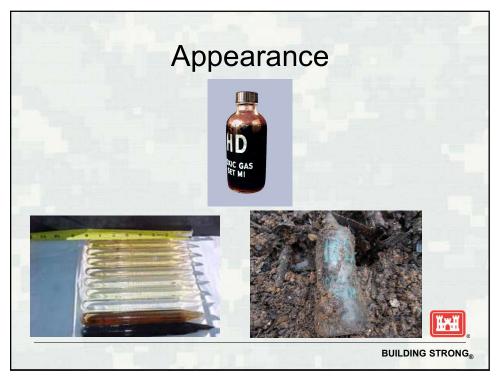




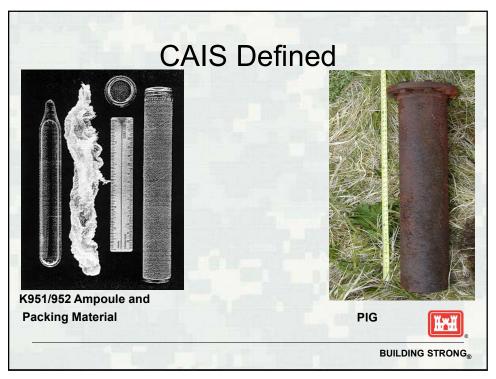


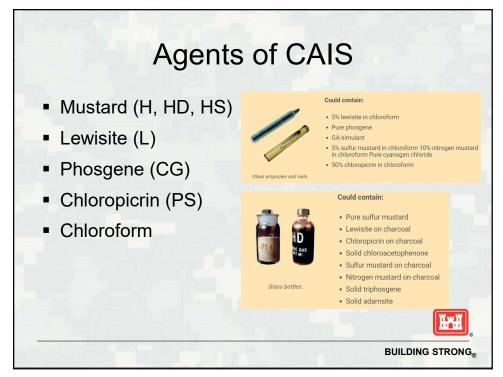












If you discover or think you may have discovered a CAIS, contact your local emergency or law enforcement personnel. Do not touch or move these items as they may contain small amounts of chemical agent. The chemical agent that CAIS may contain, even if solidified, can cause serious injury.



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