QUESTIONS **FREQUENTLY ASKED**

QUESTION: Do NLW legal considerations differ from lethal

 sagets rentdation ore letnemqoleveb ent ni WLM for for and sevelopmental and restrictions on the continued development of NLW. Final legal on erea technologies. Based on these reviews, there are no oldeiv no besupped are sbrut enuble of (GWJNL) efforted on viable anpliance reviews allow the Joint Non-Lethal Weapons Armed Conflict (Law of War). Preliminary legal and treaty NLW Legal Use of to ensure that they comply with U.S. domestic and applicable international laws and treaties, to include the Law of 2060.1 and U.S. Law, both lethal and NLW must be reviewed ANSWER: No. In accordance with DoD Directives 3000.3, i suodea/

Use of Force

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Definition

MUN

inployment

veapons," such as acoustic halling devices. devices and munitions that are not normally considered solutions." This definition is very broad and include ANSWER: The definition of NLW includes "weapons, devices QUESTION: What is considered a NLW?

QUESTION: Are NLW required to be used prior to lethal

ethal weapons and deadly force. the threat, target, and situation, U.S. torces may immediately using lethal weapons or employing deadly force. Based on ANSWER: No. There is no requirement to use NLW prior to

local populace. The employment of NLW has helped reduce in local communities in "winning the hearts and minds" of the the use of NLW have been a positive and powerful influence mission accomplishment. The perceptions associated with the state of the set and helped to contribute to The use of NLW has also generated positive "psychologica the desired effect on the personnel/materiel targeted escalation of force situations. Specifically, the NLW created past operations, the effective employment of NLW resolved ANSWER: NLW provide another "option" for the force. In Suestion: Why are NLW important?

NOITAZIAAIJIMAA **CERTIFICATION AND**

nd often hostile circumstances.

anage to property.

conflict transitions and termination.

.enotions.

force include, but are not limited to, the following:

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standard of performance has been set and that the individual met prescribed course of fire. Certification acknowledges that a minimum discharge it with a reasonable degree of accuracy while completing a Certification requires the individual to demonstrate safe handling procedures of a particular munition and firing platform and to

spot" recognition is not measured in the performance. the task. Accuracy and shot placement as well as fine-tuning "sweet hits the target, or how many times he can repeat it is not important to discharging the system safely. Whether he hits the target, where he demonstrates that he can perform loading, unloading, aiming, and qualification but does not include a minimum standard. An individual Familiarization includes many of the tasks and conditions of a

to support mission objectives. NLW capability sets/mission modules, and the employment of NLW (weapons, munitions, and devices), service-specific issued/fielded a fundamental knowledge of NLW capabilities available in-theater

point and the "sweet spot" for the round. given distance with a given number of rounds. This is just part of the sim requirement. Other critical factors just as important include the sim qualification for nonlethal rounds is more than just hitting a target at a forces will also have basic knowledge of NLW capabilities. A assigned to support contingency operations (PKO, NEO, HADR) Public Affairs, Civil Affairs, Judge Advocate Staff and other personnel (8,7,3,4,6,2,3,4), in addition, headquarters staff/mission planners (J/G,2,3,4,6,2,3),

training course is available at Joint Knowledge Online The "Introduction to NLW (J3OP-US1236)" online

Link: https://jkodirect.jten.mil

:seldmsxe gniwollof edf successful techniques include, but are not limited to, of action to reduce CIVCAS. A few examples of assess the tactical situation as a preferred course NLW can provide more reaction time for troops to

ne loss of inte and collaters damage.

warn noncombatants and to help de-escalate. dazzling laser, and/or flash bang grenade, to signal and e Use NLW capability devices, such as acoustic hailing • العافي الك

ittiate intent. of bne feorion of an approaching possible threat and to nieg of anoitinum gninnew ອຍູກຣາ-ຍູກດໄ ໂຣກີອໄກດກ ອຂປ...

EOF incident. from, thus avoiding a possible CIVCAS event due to an noncombatants will often recognize, stop, or turn away providing hailing and warning steps that unsuspecting The above techniques have proved very successful in

NLW Support Concept Diagram



In accordance with service directives, operational forces will have

NLW MUNITIONS & DEVICES

Vse disabling fire (on personnel and/or vehicles)

SADVID ni flues fon bluow gnibnuorue

Fire warning shots, if approved by ROE, and if

Show weapon; demonstrate the intent to use

pyrotechnics initially followed by one of the

flare/ long range warning munition, or bright

shots to defeat a threat and protect the force. EOF

flashbang/warning munitions), and/or deadly

to include warning, disabling (i.e., long range

graduate to lethal measures (direct action)

warning munitions) followed by flags, and may

lasers, and pyrotechnics, including long range

flares, bright visual signals to include, spotlights,

that begins with nonlethal force measures (i.e., pen

Escalation of Force (EOF) is a sequence of actions

DE-ESCALATION TECHNIQUES

neq a sa dous soiveb langis a volqme vlisitini <

is not a substitute for, but supports the ROE.

➤ Use deadly force

(noqsew gnimis)

pninnsw eldibuA <

:pniwollof

Vonlethal means (barriers)

(sngis ,stdgil) sbis lsusiV ≺

and collateral damage to property and the environment. while minimizing fatalities, permanent injury to personnel, primarily employed to incapacitate personnel or materiel Nonlethal munitions (NLM) are explicitly designed and

munitions and reduce the chance of serious injury or death. thigh or lower abdomen are more effective for nonlethal mass. However, striking larger muscle groups such as the on the target. Typically, Soldiers are taught to aim center aimed will play a great part in what effect the round will have munitions training. Where a particular nonlethal projectile is Achieving the proper aiming point is critical for all nonlethal



In detainee operations where all displays of violence must be brought under control quickly while avoiding unneces-

nitisseria rontact with the local population under stressful

Cordon and search operations where friendly forces come

ontrol missions and provide protection while minimizing

equipment enable Army elements to execute population

Crowd control and civil disturbance operations where

careful employment of force to minimize loss of life and destruction of property.

Convoy security in urban operations where population

riendly forces and improve public opinion and acceptance

Checkpoint operations where nonlethal capabilities protect

FOB perimeter security to prevent injury to personnel and

Examples of specific missions where NLW complement lethal

support, alleviate environmental concerns, and enhance post

to protect non-combatants, promote international political

ability to apply force proportional to the threat and the desire

operations where there is the need to enhance the Army's

Nonlethal capabilities have particular application in civil support

military engagement, contingencies, and major combat

NLW support all military operations—including peacetime

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density and characteristics of the area require the

prietnal munitions, protective equipment, and support

USE OF NONLETTHAL WEAPONS

nonlethal munitions and fielded capabilities/tools prior to use. on training, familiarization, and certification with each type of CIVCAS incidents. Troops should conduct proper handsto help de-escalate situations and reduce the potential for weapons, munitions, and fielded tools whenever possible Forces/Units in the Host Nation. Units should use nonlethal climate and focus to gain the local citizens trust of Coalition strategic importance due to the changing operational is one of the leading causes of CIVCAS and has had could lead to a civilian casualty (CIVCAS) event. EOF during potential escalation of force (EOF) incidents that lethal alternative capability to warn and deter individuals to leaders and Soldiers. NLW provide a safe, less-thanprovides a greater range of graduated response options The use of nonlethal weapons (NLW) and munitions

NLW can support a variety of missions by doing the

onnel and counter materiel tasks. Counter materiel tasks: • Stop/disable vehicles • Stop/disa	COAs. Provide a means to employ counter personnel tasks: • Deny areas to individuals. • Move individuals. • Disable combatants.
Provide EOF options in a variety of mission applications (Force Application/Force Protection) across effectively limit collateral damage to civilian property, reduce reconstruct costs, minimize the opportunity for costs, minimize the opportunity for literiticide incidents and lessen the filelihood of conflict escalation.	Provide troops with a means to hail and warn, deter, dissuade (de-escatiste, reduce tensions, intent of suspect individuals intent of suspect individuals necessary in accordance with rules of engagement (ROE) and EOF necessary in accordance with rules of engagement (ROE) and EOF
	-6.0.00

JNINIAAT NOULETHAL WEAPON

Service members. capabilities prior to fielding these devices to deploying WJN lennorepresentational training of counterpersonnel NLW fielding. Additionally, the Secretary of Defense will training on NLW capabilities is critical to effective prerequisite for deploying forces stating that proper 2011 highlights the importance of NLW training as a The National Defense Authorization Act (NDAA) of

:WJN gnisu nahw barabisnoo In accordance with TC 3-19.5, three objectives are

and at the needed range/distance?) Accuracy (Are munitions hitting the target in the desired location

eliable and desired effect on the target?) Effectiveness (Are the munitions producing an effective and

Reduction of injury (Are the injuries inflicted truly nonlethal?)

operations. potentially volatile, lethal situations during military strategic effects. The use of NLW can help de-escalate environments in which tactical actions often have better postured for today's complex operational military forces trained in both lethal and NLW are It has been a proven in recent operations that

6TA 19-08-006

Mitigation (CIVCAS) Vilense 3 neilivi 3

Equipment, and Capabilities , elooT lethal Tools,



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The "sweet spot" is the finite distance between the point away from the launcher muzzle where the projectile has lost enough energy that it will not cause serious injury and the point where the projectile has lost so much energy that a hit is no longer effective and/or accurate. The "sweet spot" will be different for each munition, but typically it is between 10 and 55 meters.

NLW Effects at Distances

C Type of Nonlethal Munition Ir	Potential to Cause Serious njury or Death	Sweet Spot	Potentially Ineffective
40MM Sponge Grenade Round, M1006	0m-10m	10m-50	0 50m+
40MM Crowd Dispensed Round (area), M10	29 0m-10m	10m-3	0m 30m+
12-GA Crowd Dispersal Round (area), M101	3 0m-10m	10-20n	n 20m+
12-GA Fin Stabilized Round, M1012 0m-5m	0-5m	5m-15	m 15m+
66MM Nonlethal Grenades, L96, M98 & M99	9 0m-80m	80m-1	00m 100m+

Accuracy is a key factor that works in combination with "sweet spot" and aim point to achieve the desired effect in the targeted subject. Nonlethal rounds while in some cases are considered accurate, will never be as accurate as lethal rounds. They are most accurate at the beginning of their "sweet spot" and less accurate at the terminal end of the "sweet spot." This is due to their loss of energy and the possible effects of the environment such as wind, rain, or extreme temperature on relatively slow and large rounds.

The only way to predict how a particular nonlethal munition will perform across the "sweet spot" area is to train with it and the appropriate firing platform. Accuracy is where the "sweet spot" and aim point intersect on the target to produce a desired effect.



C - Mar 1999 FMR - Apr 20 DESCRIPTION 40 mm low velocity cartridge 40mm low velocity cartridge Projectile - 48, 48-caliber rubber balls Projectile - Foam rubber Delivers strong, non-penetrating blow to the bod Fired from M203 Grenade L Fired from M203 Grenade Launch mounted on M16A1 or M4 Engagement Range - 10m - 50m
Muzzle Velocity - 265 ± 20 ft./sec (81 ± 6 m/sec)
Length - 5.272" (13.4 cm) Engagement Range - 10m to 30m Muzzle Velocity - 450 ft/sec Length - 4.8" (12.2cm) otal Weight - 68gm (0.15 lb) Total Weight - 202.22gm (7.0 oz)

The U.S. Army currently fields the M1006 Non-Lethal Cartridge, designed for point target engagement, and the M1029 Crowd Dispersal Cartridge, capable of engaging multiple targets at once. Each is intended for close quarter engagement and is fired from standard M203 and M320 Grenade Launchers



Individual Serviceman's Non-Lethal System (ISNLS) DESCRIPTION Potential Applications Technical Applications Greater stand-off range, 100m-300m Counter-personnel Control crowds Greater Non-lethal and Effective engagement ranges Incapacitate individual(s) 10m to 150m+ Consistent Target Effect at wide engagement ranges and groups Variability/Scalability of Effect Greater Integration with lethal systems for flexible use of force The ISNLS is a compressed air-operated, semi-automatic launcher designed to fire non-lethal projectiles at ranges of 10m to 100m. The pneumatic launche fires a polystyrene .68 caliber projectile that can either mark or deliver a blum impact to a target, giving Soldiers the ability to engage targets with non-letha force at increased distances and accuracy. The magazine holds 15 rounds and



individuals through an area, and suppress individuals. This technology has the potential to support multiple missions including force protection checkpoints, patrols/convovs and crowd control.





Potential Applicatio Non-lethal vehicle capture system Access denial to vehicle capability Use at tactical checkpoints and facility entrances

The VLAD is a pre-emplaced, man-portable, expandable spiked net, When a vehicle runs over the spikes, they puncture and grab the tires, and the net wraps around the axle to stop the vehicle.

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