



Mission Payload Module - Non-Lethal Weapons System Fact Sheet



<http://jnlwp.defense.gov>

What is it?

The Mission Payload Module – Non-Lethal Weapons System (MPM-NLWS) is a pre-Milestone B technology development program focused on a non-lethal, counter-personnel capability. The MPM-NLWS is a vehicle-mounted, tube-launched delivery system. The program is concurrently developing the system and payloads. Non-lethal payloads include audio and optical effects to suppress crowds.

How will it work?

The MPM-NLWS will provide a non-lethal capability to suppress threats at appropriate standoff ranges to achieve crowd dispersion, area denial, access point control, unit defense, and convoy protection. “Suppression” includes either or both of the following effects:

- light stimulus to impair an individual’s ability to accurately aim a weapon.
- sound/pressure stimuli to impair an individual’s ability to hear commands at conversation volume.

Human Effects Testing

The Human Effects Center of Excellence at Fort Sam Houston in San Antonio, Texas, is a source within the DoD for non-lethal human effects expertise and is currently assessing MPM-NLWS human effects to quantify the risk of significant injury and help developers characterize and understand effects at various ranges.

A Human Effects Review Board periodically reviews human effects data for accuracy and completeness. These reviews are standard non-lethal program practices to ensure that developers program, conduct, and consider results of appropriate human effects assessments. Additionally, the board recommends operator training and safety margins to ensure operational effectiveness and mitigate injury risks.

System Evolution

The first increment of the MPM-NLWS will be integrated onto the Marine Corps Transparent Armor



Potential Mission Payload Module configuration
(Conceptual Drawing)



A close-up of the Marine Corps Transparent Armored Gun Shield
Official Department of Defense Photo

Gun Shield of the High Mobility Multipurpose Wheeled Vehicle. Follow-on increments may integrate the system on a variety of tactical vehicles, unmanned ground vehicles, or naval surface vessels.

Organizations Involved

The following organizations are involved in the MPM-NLWS program:

- Department of Defense
 - U.S. Marine Corps (lead service)
 - U.S. Navy
 - U.S. Army
- Department of Homeland Security
 - U.S. Coast Guard

