



AIRDROP FROM UNMANNED AERIAL SYSTEMS (UAS)

CAPABILITIES:

Airdrop from UAS allows material and supplies to be delivered into hazardous locations where manned aircraft and aircrews have the potential of being damaged/destroyed or lost. UAS can also provide a quick response capability, such as medical emergencies, where ground lines of communication are limited or non-existent.

DESCRIPTION:

Multiple airframes have been used to demonstrate the Airdrop from a UAS capability, with payloads ranging from a few pounds to 2,200 pounds each. The aircraft can deliver unguided or guided payloads to the calculated air release point (CARP), activate the release of the payload and return to base. An Iridium Satcom has also been used to demonstrate the capability to change the aircraft flight path, the payload release point and the payload landing location while in flight.

TIGERSHARK:

- Payload weight: 10-25 pounds
- Release altitude: 500-10,000 feet AGL
- Payloads: 1

MAVERICK:

- Payload weight: 10-150 pounds
- Release altitude: 100-10,000 feet AGL
- Payloads: 1

K-MAX:

- Payload weight: 50-2,200 pounds
- Release altitude: 50 feet AGL-10,000 feet MSL
- Payloads: up to 4

POINT OF CONTACT:

**US Army Natick Soldier Research, Development & Engineering Center
Aerial Delivery Directorate**

COMM: (508) 233-4495

Email: usarmy.natick.rdecom-nsrdec.mbx.nati-amstrd-nsc-ad-b@mail.mil

