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## **AIR POWER**

# Air Force to Launch Munitions from C-17s

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By Jan Tegler



C-17 and C-130 airlifters into strike aircraft.

During the experiment, called the Rapid Dragon campaign, the rear cargo door of a C-17 will open

The Air Force is planning a live-fire demonstration before the end of the year that could transform

for a high-altitude air drop of a large roll-on/roll-off pallet loaded with munitions, according to the service's strategic development planning and experimentation office. Dean Evans, Rapid Dragon program director at the office, described the platform as a standalone

and types of munitions. The office went from a conceptual design to test in just 10 months, he said. The testing is part of a

fast-paced, 24-month experimentation budgeted at \$23.7 million.

JASSM-ERs or other munitions at a target hundreds of miles away.

palletized weapons system and a smart, reconfigurable modular box able to launch varying numbers

Munitions could include the extended range version of Lockheed Martin's 2,000-pound Joint Airto-Surface Standoff Missile Extended Range (JASSM-ER), which would receive targeting data from a beyond-line-of-sight command-and-control node via an aircraft-agnostic battle management system incorporated into the pallet.

The data is uploaded to the missiles, then cleared for release. The pallet rolls out the back, dropping

by parachute at a safe distance from the C-17, stabilizes and then automatically fires up to 32

In July, the Air Force successfully simulated the scenario during test flights at White Sands Missile Range, New Mexico, with a Special Operations Command EC-130SJ and a C-17A from the 418th Flight Test Squadron. Later this year, they will do a live-fire test using JASSM-ERs from an EC-130SJ.

The box can be enlarged or diminished in size, "like stacking Lego blocks," depending on how many weapons are desired and what type of airlift aircraft will drop it, Evans said.

C-130 and a nine-JASSM-ER arrangement for the C-17 with the goal of expanding the number of munitions that can be employed from the modular box.

The office and the test community are currently working on a six-JASSM-ER configuration for the

can make JASSM work, making anything else work in the future should be easier," Evans said.

The weapons will be fired in a nose-down direction from the box, Evans noted. Getting the missiles

The campaign chose to test with the JASSM-ER first because of its large size and complexity. "If we

to "pull up," or correct their trajectory once fired, is the most daunting technical challenge, he said. The campaign is "right on track to demonstrate unconventional release" in a flight test preceding the live-fire test, he added.

Testing with other munitions will be carried out in the next phase of Rapid Dragon in 2022 and 2023

with similar simulations leading to live-fire testing, demonstrating that the box is weapons agnostic and capable of firing kinetic and non-kinetic weapons, he said. So far, the project hasn't defined how the palletized weapons system will be commanded and

controlled. But in a podcast with the Mitchell Institute for Aerospace Studies last March, Air Mobility Command Commander Gen. Jacqueline Van Ovost indicated that Air Force Global Strike Command might be responsible. Van Ovost asked, "How do you inform and have Global Strike [Command] manage that? We're just a

platform. Instead of dropping [munitions] on a ramp somewhere at some island, we're just dropping them in the sky. And after they drop out of the sky, someone else lights them off and takes them to the target." When and if the Air Force decides to proceed with the capability isn't known, but Evans emphasized

"That's why we've been able to move so fast and increased the probability that this won't be lost in the Valley of Death," he said, referring to the inability of some projects to transition into acquisition programs of record.

that the campaign was breaking new ground in how the service arrives at a new capability — by

engaging major commands and the testing community from inception.

**Topics:** Air Power

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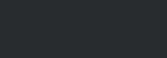
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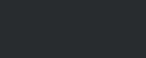
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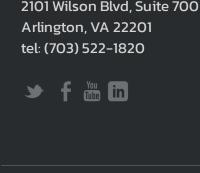
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