

UNMANNED HELICOPTER SLING LOAD (HSL) HOOKUP DEVICE

PROJECT OVERVIEW

The Unmanned HSL Hookup Device is a 3-arm, actuatable grappling hook using Auto-Capture Hook (ACH) technology for up to 25,000-pound loads. This system eliminates the need of personnel under the aircraft during HSL hookup operations. It also enables rapid load capture and release with minimal aircrew exposure.

BENEFITS

This project will allow for safer payload hook-up during sling load operations for more austere environments and enable multiple loading and unloading without the need of aircraft reset.

PATH FORWARD

This project will obtain Airworthiness Release for the system and will reach the necessary Technical Readiness Level to be transitioned to US Army Product Manager Force Sustainment Systems (PM FSS) for Developmental and Operation testing under the Sustainment Aerial Delivery Equipment – Sling Load (SADE-SL) Program of Record.



Current HSL operation – Manned hookup



Future of HSL operation – Unmanned hookup

DoD Executive Agent

Office of the Assistant Secretary of the Army for Installations, Energy, and Environment

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FOR FURTHER INFORMATION

National Defense Center for Energy and Environment
<http://www.denix.osd.mil/ndcee/home>

US ARMY DEVCOM Soldier Center
[\[https://www.army.mil/natick\]](https://www.army.mil/natick)