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For Immediate Release:

MAE Completes Helicopter Transmission Test Stand for DEVCOM

Twinsburg, Ohio, August 4, 2021: Mustang Advanced Engineering (MAE) announced the completion of a test stand capable of conducting experiments on a wide array of Army transmissions, gearboxes, and other powertrain systems for The U.S. Army Combat Capabilities Development Command (DEVCOM) Army Research Laboratory at their Aberdeen, Maryland facility (formerly known as VIPER). MAE delivered/installed a turn-key solution which includes interfacing with existing and/or new facility utilities. The test stand will be capable of testing the following powertrain configurations:

- Helicopter main transmission, single/dual inputs (1,000 HP each)
- Helicopter tail-rotor drivetrain 1,000 HP class
- Helicopter tail-rotor drivetrain 250 HP class

The test stand was delivered with five AC variable speed dyne motors configured in a common bus arrangement to allow the electrical power to be re-circulated within the system. This drive configuration offers significant power savings over the life of the test stand. The test stand includes a hydraulic blade simulation system to dynamically impart forces and moments to the helicopter main transmissions which simulate the blade forces. This is a state of the art, 6 degrees of freedom design concept. In addition, the turnkey system was supplied with all fixtures, test article mounting systems, torque disc calibration systems, MAE's TRANSdyne Control Software, and a comprehensive data acquisition package.

"Mustang is extremely pleased to deliver such an advanced and very versatile test stand," said Allen White, Project Manager at Mustang Dynamometer. "We have decades of experience with sophisticated transmission test stands, including similar advanced military testing systems." MAE is one of only a few companies in the world that has experience developing and delivering such highly specialized testing solutions for these challenging applications. MAE has experience building advanced testing solutions for helicopters like the OH-58 Kiowa, the AH-1, the Kawasaki OH-1, the Bell 47, and the HH-60G Pave Hawk. For more information, visit MustangAE.com or contact sales@MustangAE.com.

About MAE

Mustang Advanced Engineering is a leading supplier of advanced, custom engineered testing and measurement systems. Located in Twinsburg, Ohio since 1986, MAE delivers world-class testing solutions, custom design support, technical assistance, backed by a dedicated factory service team, making them a trusted source of expertise for the global industrial market. Visit MustangAE.com for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram.

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