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*For Immediate Release:*

## US Army GVSC to Upgrade Two Test Cells

**Twinsburg, Ohio, August 20, 2020:** Mustang Advanced Engineering (MAE) announced that the company has received a contract from the US Army Ground Vehicle System Center (GVSC) to upgrade two (2) test cells with complete 236 channel operational data acquisition and control systems for existing dynamometer test cells. The contract also provides GVSC the option to purchase two (2) additional upgrades within the next three (3) years including a 468 channel system. MAE recently installed two (2) engine dynamometer test cells at GVSC using the same data acquisition and control system architecture.

MAE will perform the test cell upgrade implementations using National Instruments (NI) PXI hardware running NI VeriStand (VS) as the test cells' controller. This configuration-based architecture provides out of the box functionality that will rapidly allow users to make changes to the test systems.

All data channels will be implemented using built in configurations for PXI chassis cards. This allows for scaling, calibration, alarming, and event-based monitoring using built in software features. The hardware read and write operations are conducted on the real time controller processor. Closed loop control that needs to be implemented on the controller will be done using the NI INERTIA add-on. This allows for high-speed closed loop control of temperature, speed, and flow processes as needed for test cell support.

All features will be configured on the Host PC and deployed over an Ethernet connection to the real-time (RT) controller. Once operating on the RT controller, they will run deterministically and push data to the host PC for storage. The controller will use an Ethernet connection to the host PC for HMI communication of command and display requests. This HMI will be able to be changed dynamically even when the RT controller is running.

"MAE has successfully installed two engine dynamometer test cells at GVSC in test cells 1 & 8 which have been performing flawlessly. These awarded upgrades for test cell 6 & 3 provide the Government significant advantages by utilizing the proven MAE solution with commonality in software and hardware architecture in test cells 1, 8, 6, and 3 as well as in any future awards for test cells 2 and 9.", said Eser Manav, V.P. Operations.

Visit [MustangAE.com](http://MustangAE.com) or contact [sales@MustangAE.com](mailto:sales@MustangAE.com) to find out more about Mustang Advanced Engineering and its line of engine dynamometers as well as software and hardware testing solutions.

### **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](http://MustangAE.com) for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram.

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