Sinclair College Demonstrates Cutting-Edge National Live, Virtual and Constructive Unmanned Aerial Systems First Responder Training Capabilities in Integrated Multi-Site Exercises

May 2, 2018 (Dayton, OH) – May 1, 2018 (Dayton, OH) – The Sinclair College National UAS Training and Certification Center completed a series of integrated national live, virtual and constructive (LVC) first responder training exercises during the Association for Unmanned Vehicle Systems International (AUVSI) Xponential 2018 conference.

Enabled through coordination with Simlat as the college's key LVC technology partner, the National Center for Medical Readiness for exercise site support and remote integrations of Sinclair assets at Anne Arundel Community College and the Xponential conference, Sinclair implemented three training scenarios to highlight the utility of unmanned aerial systems (UAS) and distributed LVC integrated sites supporting first responder training. This was the first integration of fire, EMT and police professionals in a multi-site, national training exercise integrating Sinclair's novel and unmatched UAS and LVC technologies.

The three first responder scenarios focused on search and rescue, disaster response and special weapons and tactics (SWAT) operations. Each scenario lasted two hours and included coordinated pre- and post-exercise briefings, live UAS flights supporting first responders operating at the National Center for Medical Readiness in Fairborn, OH and virtual UAS operations conducted by crews in the Sinclair UAS Simulation Lab in Dayton, OH, Sinclair Tactical Ground Control Station on the Anne Arundel Community College campus in Arnold, MD and Sinclair Mobile Ground Control Station at the Xponential conference in Denver, CO.

"We have been developing our integrated LVC capabilities with focuses on UAS support for first responders and airspace integration with our partners over the past few years," said Dr. Andrew Shepherd, Executive Director and Chief Scientist for UAS at Sinclair College. "This exercise was our most ambitious project to date, highlighting the maturity, utility and effectiveness of the technology as a training and concept of operations development aid."

The exercises included over 70 participants and more than 150 observers drawn from the UAS and first responder communities at the integrated Ohio, Maryland and Colorado sites. "The capabilities demonstrated during the training exercises are truly remarkable," said Michael

Guadagno, Coordinator Ohio Region 3 USAR. "The integration of live UAS flights and dispersed participants aided by the simulated systems highlights just how powerful UAS paired with the LVC environment can be for first responder training and operations."

Jeffrey Miller, Chief Operating Officer for UAS at Sinclair College, added "Sinclair has been actively developing our UAS LVC capabilities with our core industry partner Simlat with the goal of providing unmatched complex operational capacity, which has now been demonstrated multiple times with national and international participating partner sites. We are excited to continue advancing the technology and providing it as an important service to assist in complex training and testing environments."

Sinclair would like to acknowledge and thank its partners at Simlat, the National Center for Medical Readiness, Anne Arundel Community College and all of the participating first responders who enabled the groundbreaking exercise's success.

Sinclair College's National UAS Training and Certification Center is at the forefront of UAS innovation, creating partnerships, developing leading curriculum and investing significantly to maintain a nationally prominent program dedicated to meeting the workforce needs of the growing UAS industry. Sinclair's UAS program supports applied research and development, consulting and training leveraging leading expertise and advanced unmanned and manned simulation, indoor flight facilities, aircraft, sensors, avionics, maintenance labs, additive and traditional manufacturing labs, data analytics software and a wind tunnel lab. More information about Sinclair's UAS efforts is available at uas.sinclair.edu.

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