MetaVR to provide visuals for additional US Air National Guard F-16 simulators

F-16 simulators equipped with MetaVR's Virtual Reality Scene Generator form part of the Mission Tactics Trainer (MTT) program operated by the Air National Guard and Air Force Reserve Command's Training Systems Support Center

Brookline, MA, 5th February, 2020:

A total of 380 MetaVR Virtual Reality Scene Generator™ (VRSG™) real time 3D licenses have been purchased for Air National Guard (ANG) F-16 Mission Tactics Trainer (MTT) simulators in what is the largest single VRSG order ever received by the company.

The simulators will be fielded in Tucson, AZ; Madison, WI; Atlantic City, NJ; Montgomery, AL; and at Joint Base San Antonio, Lackland, TX, and Andrews Air Force Base (AFB), MD.

VRSG supports both the ANG and Air Force Reserve Command advanced pilot training in all current F-16 MTT configuration simulation systems in use. Most recently the system was rolled out across F-16C Block 30 simulators at Buckley AFB, CO, in 2019, where it is used for proficiency and currency maintenance pilot training by the 140th Wing of the Colorado ANG.

The system simulates multiple views for the F-16: out-the-window, embedded HUD, HMD/HMIT, real-time streaming protocol (RTSP) in the central display unit, ground map radar, targeting pod, and maverick missile displays. Combined with MetaVR 3D terrain and models, cockpit displays with native 4K (4096 x 2160) resolution offer combat pilots an immersive field-of-view that renders the out-the window virtual environment with near 20/20 visual acuity.

The system is also in use on F-16C Block 30 simulators at Kelly Field, Lackland AFB; F-16C Block 30/40 simulators at Tucson ANG Base, AZ; and the F-16 Network Training Centre at Luke AFB. Elsewhere, VRSG supports Air Force Research Laboratory F-16 training research simulators; Air Force Reserve Command F-16C Block 30 Multi Task Trainers installed at Homestead Air Reserve Base (ARB), FL, and Fort Worth Naval Air Station JRB, TX; and on Belgian and Portuguese F-16 simulators for the 309th SMXG European Participating Air Forces program.

"VRSG has been delivering advanced image generation for F-16 combat aircraft simulators for many years, and this latest order is testament to the system's capabilities to support a wide range of operational training scenarios," Garth Smith, President of MetaVR, commented. "We undertake continuous development of features and content to keep VRSG concurrent and compatible with the F-16 in its various configurations, in order to deliver a geospecific, high-fidelity training experience for the pilots that operate these aircraft, enabling them to maintain currency in hyper-realistic environments to help ensure mission success."

MetaVR recently supplied the ANG with geospecific 3D terrain of most regions of the world for rendering in VRSG. MetaVR's world terrain, in round-earth geocentric Metadesic™ format, was

provided for unlimited program reuse and redistribution. This terrain is updated routinely, based on customer needs.

Image: F-16 cockpit view of VRSG showing geospecific 3D terrain of Kelly Field, Lackland Air Force Base, built by MetaVR for the ANG. (Credit: US Air Force.)

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About MetaVR

MetaVR, founded in 1997, develops commercial PC-based software for the military simulation and training markets, featuring high-speed 3D visualization content and rapid creation of networked virtual worlds using real-world data. MetaVR's real-time visual systems provide the fidelity of geospecific simulation with game-quality graphics. Users can build (with real-world photographic imagery, elevation data, and feature data) high-fidelity virtual worlds with our terrain generation tools, and render in real time, at 60Hz frame rates, the resulting virtual world with our real-time 3D visualization application, Virtual Reality Scene Generator. MetaVR systems are used for applications such as UAS/RPA trainers, manned flight simulators, mission planning and rehearsal, joint fires and JTAC simulation training, urban operations training, and emergency response management training. For more information, visit www.metavr.com.