F-15C Mission Training Center

**Description & Purpose:** The F-15C Mission Training Center (MTC) program provides U.S. Air Force F-15C aircrews with high-fidelity simulator-based training without the material, personnel costs, and environmental issues associated with training on operational aircraft. It allows F-15C pilots to train in devices that are concurrent with the latest aircraft configuration and capabilities, in tactical theatre environments that are not readily accessible.

The training centers include two high-fidelity F-15C simulators, featuring Boeing’s revolutionary Constant Resolution Visual System (delivering 360 degrees of high-definition a robust synthetic environment, and instructor/operator and brief/debrief stations. Each simulator can be operated individually as a single ship, in two-ship local training mode, or in a long-haul network mode over a distributed mission operations network to participate in battlefield simulations with other entities. The simulators can also be linked locally with two medium-fidelity F-15C Manned Combat Stations provided in each training center to allow local four-ship training.

The F-15C MTC provides the capability to train F-15C aircrew in high-fidelity training devices at all levels from individual events in a single ship mode of operation to large-scale, theater-specific, composite force combat mission training in the distributed training environment.

There are 12 F-15C MTC high fidelity trainers in service at three different sites.

**Customer:** The F-15C MTC is used by the U.S. Air Force at: Langley Air Force Base, Virginia; Kadena Air Base, Japan; and Royal Air Force Lakenheath, United Kingdom.

**General Characteristics:** The F-15C MTC program is scheduled to run through September 2017. Boeing is the prime contractor and provides the high fidelity F-15C crewstation simulation, instructor/operator station, visual integrated display system, and
BigTac™ Combat Environment Server. Boeing also provides key network elements that enable local networked and long-haul networked training.

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