

ARFF MOBILE SIMULATOR

“Taking Part 139 ARFF Training to airports and fire departments of all sizes”

To meet and exceed **14 Part 139.319 (i)(2)(vii) (Emergency Aircraft Evacuation Assistance)** training requirements, Mt. Vernon Outland Airport (KMVN), Mt. Vernon, Illinois, created a Mobile ARFF Simulator to assist first responders in complying with FAA requirements. This portable educational classroom gives first responders a hands-on experience dealing with many different aircraft incident/accident scenarios. The Mobile ARFF Simulator can also be used for training of **14 Part 139.319 (i)(2)(ii) (Aircraft Familiarization)** and portions of other subjects. Advisory Circular AC 150/5210-17C *“Programs for Training of ARFF Personnel”* should be the foundation for any ARFF Training Curriculum. The Mobile ARFF Simulator aids in satisfying some of the Advisory Circular’s training guidelines. Although the training specifications were created for 14 Part 139 airports, first responders serving airports of all sizes (non-FAR Part 139) could certainly benefit from understanding the twelve subject areas and tailoring a training curriculum to suit their department’s needs.

THE AIRCRAFT



The Mobile ARFF Simulator started life as a Piper PA-31T, PAY1 “Cheyenne I”. The PAY1 is a seven-seat cabin class twin engine turboprop. The aircraft was pressurized and routinely flew at altitudes of 18,000 – 30,000 feet. It cruised at approximately 365 knots. The maximum takeoff weight was 9,000 lbs. The PA-31T carried 382 gallons of Jet A (Turbine Engine) fuel.

The Mobile ARFF Simulator’s empennage has been removed so it can be trailered to off airport locations. First responders can get a “real feel” for emergency evacuation via an operable door, emergency exit, and all interior seats being intact. The simulator’s cockpit lacks most instrumentation but the control yokes, throttle quadrant levers, and upper switch panels remain so first responders can practice cockpit shutdown procedures. Foldable wings allow for protective stream evacuation practice and landing gear issues such as hot brakes or fires. Small samples of aviation fuel are safely carried on-board so that first responders can leave training with knowledge of the dangers associated with 100LL and JetA Turbine Engine Fuels.

For first responders to see actual aircraft construction, elements of the aircraft’s interior have been removed on the right-side wall of the Mobile ARFF Simulator. A complete curriculum, training videos, and a comprehensive Crash Chart Database are available with the ARFF Mobile Simulator.

The ARFF Mobile Simulator stands ready to train your first responders. Visit www.mtvernonairport.com or contact Chris Collins, Airport Director, Mt. Vernon Outland Airport, at (618) 315-5462 or Director@mtvernonairport.com for more information.

