

Statement-of-Work / Need

PA State Fire Academy
Mobile Flashover Simulator
November 16, 2022
Manufacturer: Draeger Inc.

The following outlines the repairs and upgrades needed to the Mobile Flashover Simulator currently in service at/for the PA State Fire Academy. The repairs include: 1) replacement of the burn chamber; 2) repair to the chimney; 3) trench vent repair; 4) light covers to prevent tar from dripping on the lens; 5) re-install the walking platform with latches; and 6) other minor additions/modifications.

The repairs are due to the warping and movement of the plates on the walls making it almost impossible to place the OSB (i.e., fuel source) in the proper location. Replacing the burn chamber and other upgrades will assure the unit remains in service for the next several years, safe operations of the simulator, and improve the conditions for safe transportation to/from the training sites across the Commonwealth.

It should be noted the deterioration to the unit is a result of sustained usage over its years of service. This mobile training system provides vital information and experience to firefighters. Notably, this year (i.e., 2022) the simulator experienced nearly 200 fire training sessions at 50 locations across the state teaching over 5650 firefighters; equally, the simulator has seen use of the same annual rate since 2017 (minus the COVID year).