



ABINGTON TOWNSHIP FIRE DEPARTMENT

OG - 700-107

Guideline for Use of the Haagen Propane Fire Simulator

1.0 PURPOSE

- 1.1 This guideline shall serve as an overview for utilizing the Propane Fire Simulator.
- 1.2 The Haagen Fire Simulator is intended to be used for introductory oriented training of the new firefighter. The simulator provides for a very basic awareness of a heat source, when combined with the use of cold smoke, to replicate a small fire condition within a building.
- 1.3 This arrangement provides for a very basic introduction to the new firefighter the aspect of orientation to fire behavior, use of the self contained breathing apparatus, limited visibility environments, and perhaps the suppression of such using portable fire extinguishers.

2.0 RESPONSIBILITY

The responsibility to ensure that the above actions are taken in an appropriate manner is defined as indicated below:

- 2.1 Company Members (CM)
- 2.2 Company Officers (CO)

3.0 PROCEDURE

- 3.1 To use the simulator, connect the heat panel to a propane cylinder.
 - 3.1.1 With the cylinder turned on, propane gas will flow to the various burners, past a thermo-couple, which will keep the gas valve open as long as there is a heat source at the burner.
 - 3.1.2 When the thermocouple is cooled with either a water or CO-2 extinguisher, the valve will close, thus, eliminating the heat source at the panel.
 - 3.1.2.1 Note – if fire extinguishers are to be used for suppression training, only pressurized water or CO-2 extinguishers are to be used. A dry chemical extinguisher will damage the unit.
- 3.2 With the propane tank open, use a small propane torch to heat the thermo-couple while pressing the button next to the burner.
 - 3.2.1 Once the thermo-couple heats, gas will flow into the burner.
 - 3.2.2 When lighting the burners of the simulator, begin lighting the top burners first and work your way down the panel.
- 3.3 When the training is completed, disconnect the propane cylinder and return the cylinder to the storage cage for propane.
- 3.4 The Fire Simulator is to be stored in the Accessory Storage and Training Building when not in use.

4.0 RECORDS

4.1 Activity Usage Form

Located on the desk within the Accessory Building is an Activity Usage Form. This form is to be completed if the Haagen Propane Fire Simulator is used and deficiencies or future needs need to be addressed.