



# Fire Protection Training

Procedures Handbook 4300

FIRE PROTECTION SYSTEMS

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**TOPIC:** Support of Fire Suppression Systems

**TIME FRAME:** 15 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* A written quiz

*Behavior:* The student will list and describe the appropriate Fire Department support activities for each type of fire suppression system.

*Standard:* With a minimum of 70% accuracy

**MATERIALS NEEDED:**

- Appropriate visual aids
- Audio visual equipment

**REFERENCES:**

- IFSTA, Private Fire Protection and Detection, 1st Edition, Chapter 2
- NFPA, Fire Protection Handbook, 16th Edition

**PREPARATION:**

Private fire suppression systems provide an excellent means of controlling fires prior to the Fire Department's arrival. One of the first tasks for the Fire Department upon arrival is to support operating fire suppression systems. Knowledge of how to safely work with these systems is imperative.



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SYSTEMS

PRESENTATION	APPLICATION
<p><b>I. SUPPORTING FIRE SUPPRESSION SYSTEMS</b></p> <p><b>A. Sprinkler Systems</b></p> <ol style="list-style-type: none"><li>1. Fire department support of operating sprinkler systems is one of the highest priorities.<ol style="list-style-type: none"><li>a. Connecting an engine to a water source and discharging into the Fire Department sprinkler connection will ensure adequate discharge pressures on all open heads.</li><li>b. The next concern will be to determine whether continued operation of the open heads is warranted</li><li>c. Unnecessarily allowing sprinkler heads to operate will cause excessive water damage</li></ol></li></ol> <p><b>B. Standpipe Systems</b></p> <ol style="list-style-type: none"><li>1. Fire department support of standpipe systems consists of hooking an engine to the system<ol style="list-style-type: none"><li>a. To boost pressure in a wet system or</li><li>b. To supply a dry system thus producing effective fire streams on hose lines</li></ol></li></ol>	<p>What is one of the highest priorities when arriving at a sprinklered property?</p>



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<p>C. CO2 Systems</p> <ol style="list-style-type: none"><li>1. There are no specific fire department support activities to augment CO2 systems</li><li>2. Concerns for the fire department personnel are:<ol style="list-style-type: none"><li>a. Has system discharged?</li><li>b. Is fire extinguished?</li></ol></li><li>3. If system has not activated, consider activating it manually</li><li>4. Follow applicable safety precautions</li></ol> <p>D. Halogenated Hydrocarbon Systems</p> <ol style="list-style-type: none"><li>1. There are no specific fire department support activities to augment halogenated hydrocarbon systems</li><li>2. Concerns for fire department personnel are:<ol style="list-style-type: none"><li>a. Has system discharged?</li><li>b. Is fire extinguished?</li></ol></li><li>3. If system has not activated consider activating it manually</li><li>4. Follow applicable safety precautions</li></ol> <p>E. Dry Chemical Systems</p>	<p>Instructor Note: Explain local policy for supporting each of the following fire suppression systems</p>



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<ol style="list-style-type: none"><li>1. There are no specific Fire Department support activities to augment dry chemical systems</li><li>2. Concerns for the fire department personnel are:<ol style="list-style-type: none"><li>a. Has system discharged?</li><li>b. Is fire extinguished?</li><li>c. If system has not activated consider activating it manually</li></ol></li></ol> <p>F. Foam Systems</p> <ol style="list-style-type: none"><li>1. There are no specific fire department support activities to augment foam systems</li><li>2. Concerns for fire department personnel are:<ol style="list-style-type: none"><li>a. Has system discharged?</li><li>b. Is fire extinguished?</li></ol></li><li>3. If system has not activated, consider activating it manually</li></ol>	



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## ***SUMMARY:***

Private fire suppression systems are an excellent means of controlling fires prior to Fire Department arrival. It is extremely important to know how to support each type of system to ensure the system works as designed.

## ***EVALUATION:***

A written quiz.

## ***ASSIGNMENT:***

To be determined by instructor(s).