

**JEFFERSON COUNTY FIRE DISTRICT #1
STANDARD OPERATING GUIDELINES**

SOG 306

POSITIVE PRESSURE VENTILATION

I. PURPOSE

- A. To define the appropriate guidelines for positive pressure ventilation at fire incidents.

II. SCOPE

- A. These standards apply to all personnel of the District.

III. AUTHORITY AND RESPONSIBILITY

- A. It will be the responsibility of the Chief and the Officers to insure that these guidelines are followed.

IV. STANDARDS

A. Application

- 1. With fire involvement the first engine will attack the fire and set up positive pressure ventilation. The second engine will assist with the ventilation as needed.
- 2. With only smoke showing the first engine will set up the ventilation fan and then pull the pre-connect for fire attack. The second engine will assist with fire attack as needed.

B. Placement

- 1. Fans should be placed at the point of entry from the unburned side of the fire.
- 2. Fans should be positioned 6-10 feet back from the entry point. The objective is to create a pressure cone effect around the door. This position will also allow access for crews to enter the building.
- 3. An exit for the pressurized air must be provided and must be located in the fire area.
- 4. Buildings with large square footage may require multiple fans, perhaps at more than one location to effectively remove smoke. Where additional fans are required, placing two or more fans in tandem, one behind the other, is more effective than side by side.
- 5. If the location of the fire is unknown or a backdraft potential exists positive pressure ventilation should not be attempted.

C. Controlling Air Flow

- 1. Air flow from positive pressure must be controlled throughout the operation.

Too many openings or exit points reduce the effectiveness.

2. Windows and doors that are already open may need to be closed to direct the air flow into the fire area, or the most densely affected smoke area.
 3. Seal off areas that have been cleared of smoke to direct flow into another area.
- D. Restoring
1. Upon returning to the station the engineer will be responsible for returning the positive pressure equipment back into service.

APPROVED:

DATE 4-14-2004

Earl Cordes
Fire Chief