

# Fauquier County Department of Fire Rescue

## **OPERATING PROCEDURE**

No. 716

### **Burn Building Use, Care, & Maintenance**

Effective Date: April 5, 2024

Page 1 of 5

Revision Date:

Forms:

Approved By: Kalvyn W. Smith, Fire Rescue Chief



#### **PURPOSE**

The Fauquier County Fire and Rescue System facilitates numerous training courses throughout each year for the purposes of developing and maintaining a qualified and educated volunteer and career workforce.

#### **SCOPE**

This procedure pertains to all Fauquier County Fire and Rescue System personnel as well as the members of the and its associated departments. In addition, this procedure applies to all outside organizations who request use of the structures for training evolutions.

#### **PREFACE**

The department maintains a Class "A" burn structure and a Class "B" mobile fire trainer trailer. These facilities can be utilized for initial training courses which provide certification or to provide ongoing proficiency training for personnel. This procedure is intended to provide guidance on the use, care, and maintenance of these structures in compliance with National Fire Protection Agency 1402 & 1403 guidelines.

#### **I. PROCEDURE**

##### **A. Request for Use**

1. Any internal department who wishes to utilize the burn building or mobile fire trainer for certification courses or proficiency training of certified personnel can request use by sending notification to the officer in charge of the Fauquier County Fire and Rescue Training Division.
  - a. Any department requesting use of structure shall provide a detailed training plan which includes specific uses of building and any additional resources which may be needed.
  - b. A minimum of 30 days' notice shall be provided to ensure adequate time to process documentation and coordinate any additional resources which may be needed.

**Integrity**

**Teamwork**

**Unity**

**Performance**

<b>Burn Building Use, Care &amp; Maintenance</b>		No. 716
Effective Date: April 5, 2024	Revision Date:	Page 2 of 5

2. Any external department which wishes to utilize the burn building or mobile fire trainer for certification courses or proficiency training of certified personnel can request use by sending notification to the officer in charge of the Fauquier County Fire and Rescue Training Division.
  - a. Outside agency requests for use must be approved by the Fauquier County Board of Zoning.
  - b. Agencies must provide a proof of insurance and detailed training plan to include any course information and proposed specific uses of the structures.
  - c. Agency must provide a request for additional resource needs with detailed training plan.
  - d. A minimum of 30 days' notice must be provided to ensure adequate time to process documentation and coordinate any additional resources which may be needed.

## II. TYPES OF TRAINING

### A. Immediately Dangerous to Life and Health

1. Defined as Live Fire evolutions which encompass the use of actual fire-based scenarios in which combustible materials are lit to provide for realistic training evolutions.
2. The Fauquier County Fire and Rescue System Training Division shall provide a 1403 Compliance Officer for any/all Live Fire Training Evolutions. The 1403 Compliance Officer will assume responsibility to ensure all guidelines are adhered to for the duration of all training evolutions.
3. Requesting agency will provide any additional facilitation positions as required by NFPA 1403 unless making an official request to the Training Division when submitting detailed training plan.
4. If requesting facilitation personnel, specific positions should be defined in training plan submission. The Training Division will then coordinate personnel to assist with facilitating as requested pending any budgetary constraints which may exist.

### B. Skill and Proficiency Training

1. Defined as any training evolution which does not incorporate the use of ignited combustible materials.
2. The Fauquier County Fire and Rescue Training Division shall provide a facilities liaison to assist with coordination and use for the duration of the training evolution.
3. The requesting agency shall provide a detailed training plan which includes the desired use, and any additional personnel or evolution management resources which may be needed to ensure a safe event.

### III. LIVE FIRE TRAINING EVOLUTIONS

#### A. 1403 Standard on Live Fire Training Evolutions (2018)

1. All personnel utilizing the Class "A" Burn Structure, or the Class "B" burn trailer shall adhere at all times to regulations as defined in Chapters 6 & 7 of NFPA 1403.

#### B. Temperature Monitoring

1. The Class "A" Burn Structure is equipped with an affixed temperature monitoring system. The system has been configured with pre-designated temperature settings that trigger alarms when maximum temperatures have been reached.
  - a. Wall Sensors = 350 Degrees (Yellow) 450 Degrees (Red)
  - b. Ceiling Sensors = 1000 Degrees (Yellow) 1200 Degrees (Red)
2. Yellow Alarms
  - a. When a yellow alarm has been activated ignition personnel will be advised to discontinue feeding materials to the fire set.
3. Red Alarms
  - a. When a red alarm has been activated, ignition personnel will be advised to stop feeding materials to the fire set.
  - b. Ignition personnel will be advised to open a ventilation point to release heat from the room of origin.
4. If at any time the temperature of the burn structure reaches **1500 Degrees**, all fire evolutions will be discontinued for the day to ensure no damage is done to the burn

structure. A ventilation point should be opened, and safety teams will utilize a handline to suppress the fire set immediately. Care should be taken not to utilize more water than necessary so to not cool the building too rapidly which could create damage.

5. The temperature monitoring system should be tested prior to all live fire training evolutions by the 1403 Compliance Officer to ensure the system in its entirety is functional and working as designed.

#### **IV. BUILDING CARE AND MAINTENANCE**

- A. At the conclusion of a live fire training evolution there will be remaining debris. It is imperative that crews take the time to clean the facility.
  1. Crews should wait for the building to cool and be alleviated of any major smoke conditions.
  2. Fires should be suppressed thoroughly and completely.
  3. Personnel can utilize hose-lines to wash floors and walls of any remaining debris.
  4. Large portions of remaining debris must be placed onto the burn tables or within burn barrels.
  5. All personnel should adhere to respiratory protection policies and procedures during cleaning and remain on air utilizing self-contained breathing apparatus while interior.
  6. The exterior premises should be cleared of any/all debris and concrete apron of building should be washed down of all materials.
  7. At conclusion of cleaning any remaining smoldering debris will be allowed to continue to burn on table or within provided burn barrels to eliminate waste.
  8. All ingress/egress points will be closed and secured prior to departing training grounds.

#### **V. LIVE FIRE GUIDANCE MATERIALS**

- A. Fauquier County Fire and Rescue Department Training Division will provide a training manual for Live Fire Evolution requirements. Fire Rescue Manual (FRM) 1101, Burn Building Maintenance, will guide personnel on the following subjects.
  1. Position specific certification requirements

- a. 1403 Compliance Officer
- b. Safety Officer (Interior/Exterior)
- c. Crew Leaders
- d. Incident/Evolution Command
- e. Apparatus Driver/Operators
- f. Instructors

2. Position specific roles/responsibilities

- a. 1403 Compliance Officer
- b. Safety Officer (Interior/Exterior)
- c. Crew Leaders
- d. Incident/Evolution Command
- e. Apparatus Driver/Operators
- f. Instructors

3. Temperature Monitoring Requirements

- a. Testing/Validation
- b. Alarms/Monitoring

4. Fire Set Requirements

- a. Materials Permitted
- b. Quantity of Materials per Evolution
- c. Locations of Allowable Burn Sets

5. Apparatus and Water Supply Requirements

- a. Engines
- b. Tankers
- c. EMS Units
- d. Static Water Supply
- e. Hose-Line Placement Supply/Safety Lines

B. FRM 1101 is available on SharePoint and on [fauquierfirerescue.org](http://fauquierfirerescue.org) under Department Directives.