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## LIVE FIRE / LIVE BURN TRAINING SOG

### SCOPE

This guideline applies to all members of the Stoney Point Fire Department and shall be adhered to by all members. This SOG addresses live fire training for all Department members. The SOG includes live fire operations conducted by SPFD and live fire operations which SPFD firefighters will participate in that are conducted by another or outside agency.

### PURPOSE

The intent of this SOG is to ensure our firefighters participating in live burn operations are provided a realistic training environment that is adequately controlled and as safe as possible. We want our firefighters to learn under realistic conditions without injury.

This SOG provides guidance on live fire training. It addresses and outlines the procedures to be followed by the Department in conducting this type operation and procedures and prohibitions for SPFD member participating in live fire operations conducted outside the Department.

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### DEFINITIONS

**SHALL** - Indicates a mandatory requirement.

**STANDARD OPERATING GUIDELINE (SOG)** - Documents that help establish how an organization will operate and how its members are expected to carry out specific duties outlined in general terms.

**Live Fire Operations** – training operations which include live fires within an acquired structure or a training structure specifically designed for live fire operations.

**Live Fire Instructor (AKA a 1403 Instructor)** – a Level II fire instructor who has successfully completed the OSFM 1403 Live Burn Instructor Course, is current for 1403 operations and is recognized by OSFM as a Live Burn Instructor.

**IAW** – in accordance with.

**Office of the State Fire Marshall** – OSFM.

**PAR** – personnel accountability report.

**IC** – Incident Commander.

**NESHAP** – National Emissions Standards for Hazardous Air Pollutants.



## **LIVE FIRE TRAINING GUIDELINES**

### **Live Burn Operations Conducted by Agencies Other Than SPFD**

SPFD member participating in live burn operations conducted by agencies other than SPFD shall adhere to the following guidance:

- The live burn must be conducted IAW NFPA 1403.
- The lead instructor must be an OSFM recognized Live Burn Instructor whose credentials are current.
- All equipment used by the SPFD firefighter for live burn operations will be inspected by a SPFD officer prior to participation.
- Ensure that OSFM has visibility of the Live Burn operation.
- SPFD members will notify a SPFD Chief officer that he/she will be participating in a live burn operation and provide the following information:
  - What agency will be conducting the live burn operations
  - The date, time and location of the live burn operations.
  - Who the lead instructor is (name and agency he/she belongs to/represents)

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If the above guidance cannot be provided or met by the agency conducting the live burn operation, SPFD members will not participate. There are no waivers to this direction.

### **SPFD Live Burn Operations**

Live burn operations will be conducted IAW NFPA 1403 and OSFM guidelines. **All live burn operations will be planned, coordinated and executed by a certified 1403 Live Burn Instructor who is current and recognized by OSFM.**

Acquired structures serve as the primary vehicle for SPFD live burn operations. Acquired structures will be surveyed by a 1403 instructor for structural stability and inherent hazards, measured for water supply determination and diagrammed showing floor levels, rooms, stairs, window, chimneys and any inherent hazards. This information will be included in the Live Burn Binder.

A detailed plan outlining the inherent hazards and their respective mitigation, a burn plan outlining the rooms in sequence that will be burned, the water requirements and the plan to deliver required water for operations, and **a safety plan will be provided and briefed to all participants.** The detailed plan will also diagram where all fire apparatus will be positioned,



where all firefighting hose lines will be positioned, who will have charge of these lines and the communication plan for operations? This plan will be placed in the Live Burn Binder.

**The Fire Chief will review all live burn operations plans prior to execution.** In his absence, the next senior chief will conduct the review.

The detailed plan will be placed in a loose leaf binder (Live Burn Binder) with the asbestos mitigation report, NESHAP number, air quality notification/permission to burn, OSFM Live Fire Training Registration Confirmation, NC Demolition Notification, and any other relevant permissions/authorities necessary to legally and safely conduct the burn. The Live Burn Binder will be maintained in the IC's vehicle or in the primary attack engine during the live burn.

A walk through of the acquired structure will take place the day of the live burn. All fire rooms, emergency exits, windows that can be used for emergency exits and those which cannot be utilized, out of play rooms, the evacuation plan and the rally point for all participants to move to in the event of an emergency evacuation. The emergency evacuation signal will be tested and acknowledged by the participants during the walk through.

All communications will be tested and checked. All participants will be rostered and placed into teams. Team integrity will be maintained throughout the live burn. All equipment used by participants will be inspected prior to live burn operations commencing.

Accountability is critical during live burn operations. **A head count will be taken prior to each team entering the fire building and upon exiting from the fire building.** Instructors and Assistant Instructors will provide the IC PAR upon his request and prior to the final "burn down". **Operations will immediately cease if PAR is not 100%.**

Final "burn down" will occur once all planned training has been achieved, when 100% PAR is realized and when all equipment is 100% accounted for. Participants will move to the evacuation rally point prior to "burn down" for reassignment. Hose lines and deluge sets will be positioned to protect exposures, mitigate flying brands and to reduce radiant heat transfer. "Burn down" will continue until the structure has collapsed and/or been consumed, and when the remnants are within the foundation area. The IC will make the call when units will be released and if a fire watch is necessary to provide security at the location. County/City dispatch will be notified of the disposition of the fire building, if a fire watch is present and what procedure to follow if they receive calls related to the fire building.

All live burn operations will have an immediate after action review at the scene of the live burn. The intent is to reinforce good and bad points and to present lessons learned to all participants.

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