

LOS PINOS FIRE PROTECTION DISTRICT STANDARD OPERATING PROCEDURE



TITLE	NUMBER	EFFECTIVE DATE	REVISION DATE
SAFETY PLAN FOR CONDUCTING LIVE FIRE TRAINING EVOLUTIONS	406	April 8 th , 2010	

PURPOSE

The Los Pinos Fire District is dedicated to the safe execution of live fire and rescue training fires.

Because of the hazards associated with live fire training, a thorough NFPA 1403 (Live Fire Training Evolutions in Structures) inspection must be performed by a qualified SAFETY OFFICER. In addition, a qualified SAFETY OFFICER MUST REVIEW THE COMPLETED INSPECTION FORM AND CONDUCT A VISUAL EXAMINATION OF THE STRUCTURE.

Only after the safety inspection has been completed, and the requirements of any findings satisfied, will personnel be permitted to go forward with the training. In addition, the Safety Officer will be on site for the duration of the training.

This document outlines components of the Safety Plan and includes specific information for the development of training criteria, forms and templates. All forms associated with the Safety Plan must be maintained on site during the training, and available for review on request. Questions or guidance on this or any part of the live burn training can be directed to the Assistant Chief of Operations.

SAFETY PLAN COMPONENTS

The following section includes the specific operational items that must be included prior to and during all NFPA 1403 training evolutions. In addition, all documents related to this section must be kept on sight during all training evolutions:

- Water Supply Summary Form.
- Plot Plan for Burn Building.
- Floor Plans for all Floors Involved in Training.
- Training Scenario Outlines.
- Command Structure.
- Pre-Burn Tasks.
- Post-Burn Tasks.

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WATER SUPPLY SUMMARY FORM

Fire Flow requirements:

Using the NFPA fire flow formula (Length x width/3 x Number of floors = GPM for structure) identify the required fire flow necessary for the part of the structure being used.

1. 1st Floor (GPM = ____).
2. 2nd Floor (GPM = ____).

(This is 25% of fire flow for each exposure using NFPA formula)

1. Add both fire flows (1st & 2nd Floor) from above and identify here (GPM = ____).
2. Add additional 50% for unforeseen situations here (GPM = ____).
3. Add lines 1 & 2 for Total Fire Flow required here (GPM = ____).

Fire Flow Capacity:

Using the guidelines outlined in NFPA 14 "Standard for the Installation of Standpipe, Private Hydrants, and Hose Systems," determine fire flow capacity of hydrants to be used as water sources. If static water sources will be used, determine the available water in the source.

1. Hydrant Location:
2. Main Size:
3. NFPA 14 Flow (GPM = ____)

Static Water Source Location Capacity:

Identify the primary and secondary water sources by location:

1. Source #1:
2. Source #2:

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Identify the water supply plan for the training. Include location of pumpers, relays, shuttles, tanker operations or other water supply issues. Include this information on the plot drawing.

Identify the water supply plan for back-up supplies or redundancy plans. Note that back-up water supply must be completely independent from training water supply.

NOTE: All water supply systems must be independently capable of delivering 100% of the total fire flow requirement for the training structure plus an additional 50% of the total fire flow requirement for other unforeseen situations.

PLOT PLAN

A plot plan is required for all live fire training. The plot plan may be hand drawn or computer generated but must include all of the following:

- Roads affecting ingress, egress, positioning of apparatus or training.
- Water supply plan as explained on Water Supply Summary Form
- Fire attack access
- Emergency egress routes
- Command post location
- Personnel staging location
- Equipment staging location
- Rehab location
- Any other operational areas

FLOOR PLAN

A sketch or computer generated floor plan must be created for each floor of the structure that will be used for training. In addition, the corresponding number associated with the scenario(s) that will be conducted on that floor must be indicated on the floor plan. The floor plans must identify emergency exits, fire locations and any other associated safety feature.

TRAINING SCENARIOS

Identify the specifics of each planned training scenario. Each scenario must be based on a sequential burn plan as outlined in section 5-2 of the NFPA 1403.

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COMMAND STRUCTURE

The following section identifies the command structure specific to operational control of the training scheduled for this date of:

- Incident Commander*
- Lead Instructor*
- Safety Officer*
- EMS Group
- Staging Group*
- PIO
- Igniters*
- Accountability Group
- Rehab Group*

* denotes mandatory position that must be staffed

The following list identifies the operational units scheduled to be involved in any capacity of the training:

1. Unit Number
2. Role in Exercise

Note: This form must be duplicated and completed for each separate day of training.

PRE-BURN INSPECTION TASKS

The following identifies the specific tasks that must be completed prior to beginning each training session and any time new personnel are introduced to the training site:

Lead Instructor:

- Assure all participants sign participation log.
- Collect Accountability Tags and manage according to LPFD or participating department SOP.
- Assign crews and crew leaders.
- Assure all personnel use protective clothing and SCBA.
- Assign functional (support) positions.
- Supervise fire set-up and equipment / hose line placement.
- Discuss teaching points and training objectives and review them after each burn.
- Review scenarios with participants and staff and ensure training stays on plan.
- Ensure an instructor/student ratio of no more than 5 to 1.

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- Assure no more than 9 personnel (student and instructor) are in structure at any one time during a burn.
- Coordinate with Incident Commander and Safety Officer.

Incident Commander:

- Assign an accountability and entry control officer for each scenario.
- Ensure Rapid Intervention Crew (RIC) for each scenario (in full PPE with charged hose line and equipment).
- Establish communication channel.
- Coordinate operational tactics.
- Assign Rehab, PIO, EMS, Staging and other operational groups as necessary.
- Manage water supply operations.
- Manage breathing air supply and apparatus.

Safety Officer:

- Ensure a pre-drill walk through is done with all participating command staff.
- Ensure that baseline vitals are obtained on all drill participants.
- Perform PPE safety inspections.
- Assist with Lead Instructor briefing to stress safety points.
- Perform safety walk through with all participants.
- Oversee functional staff for NFPA 1403 compliance.
- Provide Safety Group functions during training.
- Monitor for safe operations at all times.
- Obtain weather and wind reports and discuss safety issues with Lead Instructor and Incident Commander.
- Assure all personnel operating at training adhere to NFPA standards.
- Assure ONLY class "A" materials are used for ignition.
- Inspect building integrity prior to and at the conclusion of every fire.

We understand that the above items outlined are our responsibility, and assure that all points above have been addressed. We have met the full intent of this document and the standards.

- Incident Commander Signature
- Lead Instructor Signature
- Safety Officer Signature

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POST-BURN TASKS

The following items are shared by the management staff of the training event and include the Incident Commander, Lead Instructor, and Safety Officer:

Following Each Fire:

- Assure all personnel are accounted for by conducting a PAR.
- Assure no injuries occurred and treat and document if they do.
- Review teaching points with instructors.
- Supervise critiques and assure each is productive.
- Supervise overhaul of fire area.
- Assess hazards created by prior burns.

At the Completion of Training:

- Complete training critique overview.
- Complete overhaul of site to assure safety.
- Document any unusual events.
- Assure all injury reports have been completed and notifications made.
- Provide general housekeeping of training site.

INSPECTION FORM

A Live Fire Training Inspection Form is attached.

Larry Behrens

Larry Behrens, Fire Chief

April 8th, 2010

Date