

STANDARD OPERATING PROCEDURE NO 37

Chimney Fires

Version Number: 2

Version Date: 16 May 2014

Issued by: Emergency Response Department

INDEX

VEF	RSION	I CONTROL	Page 3
1	INTE	4	
	1.1	Scope	4
	1.2	Pre-determined Attendance (PDA)	4
2	SIGN	NIFICANT HAZARDS AND CONTROL MEASURES	4
3	OPERATIONAL CONSIDERATIONS		
	3.1	EN ROUTE	6
	3.2	IN ATTENDANCE	7
	3.3	POST-INCIDENT	8
4	PRE-INCIDENT PREPARATION		9
	4.1	Relevant Literature	9
	4.2	Training	9
	4.3	Pre-planning	9

VERSION CONTROL

This document and subsequent amendments will be issued by the Emergency Response Department, Northern Ireland Fire & Rescue Service Headquarters.

Amendments are detailed as below:

No	Issued	Amendment	Prepared by	Approved by
1	04/04/2014	New Standard Operating Procedure (SOP) - consultation	Project Team	ACO Ashford
2	16/05/2014	Consultation complete	Emergency Response Department	ACO Ashford

1 INTRODUCTION

1.1 Scope

This SOP has been developed to contribute to a safe system of work for chimney fires.

The scope is limited to chimney fires in domestic properties.

A chimney fire includes incidents caused by defective hearths and flues.

1.2 Pre-determined Attendance (PDA)

One pump.

2 SIGNIFICANT HAZARDS AND CONTROL MEASURES

Significant Hazards	Control Measures
Burning embers causing potential fire-spread	 Observe direction of travel of embers. Damp down where appropriate thatched roofs; surrounding combustible materials. Use thermal imaging camera to identify firespread.
Release of Carbon Monoxide/toxic gas	 Consider ventilation. As part of 360° reconnaissance, identify if there are any blockages of the external flue/chimney. Cool/damp down fire. Isolate fuel sources (gas, oil, coal, wood). Use of Breathing Apparatus (BA) at the appropriate level.
Hazardous airborne materials	 Appropriate Personal Protective Equipment (PPE). Wear dust masks or respirator. Use of BA at the appropriate level. Ventilate where appropriate.
Back boiler explosion (not vented/kettling)	 Check heating system is circulating hot water system when system type is identified. Run hot water taps.
Hot materials falling down the chimney	Use a mirror to inspect the flue.Wear gauntlets.

SOP 37 - Chimney Fires 16 May 2014 Page 4 of 9

Significant Hazards	Control Measures		
Blow back Rapidly expanding steam	Apply water in small amounts.Use chimney shield.Face away.		
Shattering cast iron	 Apply water in small amounts. Avoid application of water directly to cast iron. 		
Working in a restricted space within the loft	 Ensure adequate lighting. Brief personnel to walk on rafters. Brief personnel on the possible presence of utilities and electrical components such as photovoltaic panels. 		
Vermin/nesting insects/birds	 Use adequate lighting to identify. Avoid contact/exposure. Do not eat, drink or smoke without washing hands. 		
Fighting chimney fire from roof	 Aerial appliances. Working at height procedures must be implemented. Ensure adequate lighting. Ensure stability of any anchor points (check for false chimneys, etc). Where possible, avoid working around photovoltaic panels on a roof. 		
Falling masonry from roof damaged chimney pots	 Cordon off area around the building. Appoint a Safety Officer to maintain external safety. 		

3 OPERATIONAL CONSIDERATIONS

3.1 EN ROUTE

Immediate Considerations

- Consider additional Fire Service resources you may require on arrival.
- Allocate roles to crew members.
- Consider Significant Hazards/Control Measures above.

Think through the phases of the Incident Plan

- Decision Making Model
 - Incident information.
 - Resources information.
 - Hazards and safety information.
 - Prioritise objectives.
 - Plan.
 - Communicate and control.
 - Re-evaluate.

Consider Tactics

- Attack from the grate.
- Attack from intermediate level.
- Attack from the roof avoid if possible.
- Consider use of an Aerial appliance.
- Permit fire to burn out.
- Officer-in-Charge Considerations
 - Focus on safety throughout.
 - Direct operations by standing back.

3.2 IN ATTENDANCE

Arrival

- Careful approach.
- Safe appliance positioning.
- Dismount on the safe side.

Initial Actions

- Gain information from the occupier on:
 - chimney/flue;
 - additional fireplace openings to the same flue;
 - access to the loft:
 - location of the fire;
 - potential fire-spread.
- Carry out a Dynamic Risk Assessment.
- Prioritise objectives and communicate plan.
- Additional resources (Aerial).

Brief Crews

- Prioritise.
- Plan.
- Hazards.
- Control measures.

Consider Safety Officer and brief accordingly

- Monitor overhead hazards.
- Identify electric cables.
- Control access and egress.
- Implement Exclusion Zones at gable ends.
- Monitor for signs of collapse.
- Monitor for cracked or loose chimney pot.

Extinguish Fire

- Use small quantities of water on embers allowing steam to cool the flue
- Use a mirror to inspect the flue.
- Use intermediate inspection plates if available.
- Identify if burning is present due to a defective hearth or fireplace.
- Use a thermal imaging camera to identify hot spots.
- Check roof space.
- Confirm if the flue is defective.
- Confirm there is no fire-spread.

Handover/Advice to Occupier

- Advise that the flue should be cleaned/inspected by a professional.
- Advise/ensure that ashes are removed to the open air to mitigate CO build-up in the property.
- Check for a working smoke alarm.
- Provide advice on how to arrange a Home Fire Safety Check.

3.3 POST-INCIDENT

Medical Attention

Medical attention is to be sought as appropriate.

De-brief

Carry out and feedback as appropriate.

Equipment Issues

- Replenish items used.
- Submit defects.
- Source replacement equipment via District.

Incident Recording Form (IRF)

Complete IRF within 21 days.

Accidents or Near Misses

- Accidents are to be fully investigated and reported as per normal procedures.
- Near misses are to be reported as per normal procedures.

Decontamination of Fire Kit

Standard procedures are to be followed.

4 PRE-INCIDENT PREPARATION

4.1 Relevant Literature

This SOP is supported by the following Training Notes, which are available from the Global Folder at G:\Training\Training Notes:

- Incidents 3 Hearth Fires;
- Incidents 4 Chimney Fires.

4.2 Training

The following training shall be carried out, in accordance with the Area Training Planner, to prepare in advance for Chimney Fires.

- Methods of extinguishing chimney fires.
- Removal of fireplaces.
- Use of stirrup pump.
- Use of chimney rods.
- Working at height.

All training must be recorded on the Tracking & Training Database to provide an effective audit trail.

4.3 Pre-planning

It is beneficial, where practical, to carry out pre-planning activities as follows:

- Use Home Fire Safety Checks as opportunities to gain information on domestic chimneys, glass fronted fires and heating systems.
- Provide advice on how to prevent chimney fires during Home Fire Safety Checks.
- Identify local chimney fire hot spots and target through community education initiatives.
- Identify derelict properties and seek permission to carry out training exercises.
- Test, maintain and stow safely all PPE and equipment