

July 2024 Update

1. Introduction

The Fire section of the Fire & Flood Database has been amended to introduce the explicit recording of Lithium Ion Battery Fires, and improve the recording of Vehicle fires with a view to including more detail of Electrical Vehicles. Finally, a new section formalises & records Contributing Factors.

1.1. New Feature: Lithium Ion Checkbox

In order to record involvement of a Lithium Ion Battery a check box has been added to each case in order to allow a Loss Adjuster to explicitly state this situation:

Tick this box if the fire was directly caused by a Lithium-Ion Battery

1.2. New Feature: Reorganised Cause Category

The Top Level Cause Categories have been amended to give clarity:

Code	Old Cause Group Name	New	Action	Amendment Reason
N/A	Secondary fire		Removed	Secondary fire was not deemed to be a cause. The existing Secondary Fire records were moved into the category "Other->Secondary Fire"
CS001	Chimney	Chimney fire	Name Updated	
CS002	Cooking appliance	Cooking appliance overheating/ignition	Name Updated	
CS003	Electric lighting	Electrical lighting fault	Name Updated	
CS004	Electricity supply	Electrical supply fault	Name Updated	Some Sub-categories have been amended to record Large and small Energy Storage Systems: <ul style="list-style-type: none">• Battery Energy Storage System <50kW [e.g. server UPS, Tesla Power Wall]• Battery Energy Storage System >50kW• Distribution panels, consumer units, wiring, cabling, plugs• Electric vehicle charging point• Other• Photovoltaic equipment• Supply - (Generators)• Wind generation

				Electrical Charging Point was moved from Top Level Category "Vehicles" to "Electricity Supply"
CS005	Explosives	Explosives ignition/detonation	Name Updated	
CS006	Fireworks	Fireworks ignition/detonation	Name Updated	
CS007	Fuels	Fuels ignition	Name Updated	
CS008	Heating equipment	Heating equipment fault/radiant heat	Name Updated	
CS009	Hot work (temporary activity)	Hot work (temporary activity)		
CS010	Industrial equipment	Industrial equipment fault/ignition	Name Updated	
CS011	IT equipment and peripherals	IT equipment and peripherals fault/ignition	Name Updated	
CS012	Matches and candles	Flaming from matches and candles	Name Updated	
CS013	Naked flame	Naked flame (not matches/candles)	Name Updated	
CS014	Natural occurrence	Natural occurrence		
CS015	Not determined	Not determined		
CS016	Other	Other		
CS017	Other appliance or equipment	Other appliance or equipment fault/ignition	Name Updated	
CS018	Other domestic style appliance	Other domestic style appliance fault/ignition	Name Updated	
CS020	Self heating	Self heating		
CS021	Smoking related	Smoking related		
CS022	Vehicles only	Vehicles (Non-EV/Hybrid)	Name Updated	<p>This original category is now explicitly for non-electrical vehicles</p> <ul style="list-style-type: none"> • Batteries • Electrical fault • Engine, fuel pump • Exhausts • Other - non electrical • Tyres, wheels and brakes • Unknown
CS023		Vehicles Hybrid Car/Van/Lorry	New	<p>This category is explicitly for Hybrid Vehicles</p> <ul style="list-style-type: none"> • Batteries • Conventional Engine, fuel pump • Electrical fault • Exhausts • Motors

				<ul style="list-style-type: none"> • Other • Tyres, wheels and brakes • Unknown
CS024		Vehicles EV Car/Van/Lorry	New	<p>This Category is for large electric vehicles</p> <ul style="list-style-type: none"> • Batteries • Electrical fault • Motors • Other • Tyres, wheels and brakes • Unknown
CS025		Vehicles EV Other	New	<p>The category is for small electric vehicles</p> <ul style="list-style-type: none"> • EV Fork lift/industrial truck • EV mobility scooters (4 wheeled) • EV motorcycle/scooter (sit on) • EV scooter (stand on) or bicycle • Other

1.3. New Feature: Add up to 5 Contributing Factors

A list of contributing factors has been added in order to record any additional circumstances that contributed to the fire. Up to five entries can be made and can be added in order. When entering the data each value can be added once. If the same value is entered twice the highest value only will be added.

Contributing Factors

If there are any significant contributing factors please add them below in order of importance:

Primary

Secondary

Tertiary

Other 4

Other 5

The Contributing Factors list consists of:

Combustible construction materials (Exterior)
Combustible construction materials (Interior)
Combustible furniture
Combustible powder/dust
Stored combustible materials
Cooking equipment
Defective electrical equipment
Defective electro-mechanical equipment

Defective mechanical equipment
Fire compartmentation floors(s) breached – structural failure
Fire compartmentation wall(s) breached – structural failure
Fire spread from adjacent buildings
Flammable solids (per Dangerous Goods defn, e.g. matches)
Friction
Heating boiler/furnace
Hot work
Human error (employee/contractor)
Ignitable/flammable liquid/gel
Ignitable/flammable gas/vapor
Inadequate (local) emergency response / manual fire control
Inadequate control of contractors
Inadequate fixed fire protection
Inadequate maintenance
Inadequate safety inspection
Inadequate fire water supply
Inadequate protection of opening in fire-walls/floor
Industrial boiler/furnace
Ineffective/deficient firefighter intervention
Lightning
Management failure
Management system failure
Other
Overheating battery
Oxidising chemical(s) (e.g. hydrogen peroxide)
Poor design
Poor housekeeping
Poor/faulty installation
Slow fire service response

Cause of Fire

* Deliberate Accidental Unknown

* Fire Explosion

Tick this box if the fire was directly caused by a Lithium-Ion Battery

New Feature: Lithium Ion Checkbox

Cause* Not determined

Subcategory* Not determined

Cause	Subcategory
Chimney fire	Not determined
Cooking appliance overheating/ignition	
Electrical lighting fault	
Electrical power supply equipment fault	
Explosives ignition/detonation	
Fireworks ignition/detonation	
Flaming from matches and candles	
Fuels ignition	
Heating equipment fault/radiant heat	
Hot work (temporary activity)	
Industrial equipment fault/ignition	
IT equipment and peripherals fault/ignition	
Naked flame (not matches/candles)	
Natural occurrence	
Not determined	
Other	
Other appliance or equipment fault/ignition	
Other domestic style appliance fault/ignition	
Self heating	
Smoking related	
Vehicles (Non-EV/Hybrid)	
Vehicles EV Car/Van/Lorry	
Vehicles EV Other	
Vehicles Hybrid Car/Van/Lorry	

New Feature: Reorganised Cause Category and Subcategory

Contributing Factors

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Add up to 5 Contributing Factors