The new 10.26 Supporting VICSES Storm and Flood SOP replaces the existing 10.26 Supporting VICSES Flood Operations (endorsed 2012)

- Addition of the supporting Storm Operations section to outline a more well-rounded procedure that encompasses both storm and flood situations as they can occur concurrently and have different requirements.
- The updated SOP expands on crew safety to account for the varying hazards and related regulations.
- The PPC section was developed to encompass additional safety requirements.
- The safety notes were streamlined slightly to be more concise.
- SES supported the review of this SOP.
- Definitions Extensive definitions for dealing with Asbestos

NOTE – We have done our best to match the new SOP clauses with the old SOP however in some cases they do not match, and the comparison is left blank.

Colour code

	Minor change in wording	
	Small updates in the wording but the intent is the same as the old SOP	
	Significant change or new procedure in the new SOP	

	NEW SOP 10.26 – Supporting VICSES Storm and Flood Operations	OLD SOP 10.26 Supporting VICSES Flood Operations
Objective	(1) To provide guidance to CFA members on	To provide guidance to CFA members supporting
	supporting response and recovery activities at	response and recovery activities at flood events.
	storm and flood events.	
Scope	(2) This procedure applies to all CFA members	This Standard Operating Procedure applies to all CFA
	supporting VICSES storm and flood operations.	members supporting flood operations.
	(3) In accordance with the Roles and Responsibilities	1. Responsibility:
Procedure	section of the State Emergency Management Plan	
	(2023),	1.1 In accordance with the Emergency
Responsibility	Victoria State Emergency Service (VICSES) is the	Management Manual Victoria, section 7,
	control agency for flood and storm operations.	Victoria State Emergency Service (VICSES) are
		the control agency for flood and storm
	(3) CFA is a support agency for these incidents.	operations.

		1.2 CFA are a support agency for these incidents.
Establishing Effective Liaison and Communication with the Control Agency – VICSES	 (4) Where planned operations occur, the CFA crew should establish contact with the VICSES Incident Controller or Incident Management Team (IMT) including Division and/or Sector Commanders. (5) Where planned operations occur, the CFA crew should establish contact with the VICSES Incident Controller or Incident Management Team (IMT) including Division and/or Sector Commanders. (6) Additionally, the following steps should occur in all incidents/operations where CFA is supporting VICSES storm and flood response: a. Registering your crew (e.g. at the staging area or with the local SES Unit). b. Completing a T-card. c. Obtaining a briefing including any known hazards and safety considerations. d. Confirming reporting lines. e. Agreeing on the communications system between the SES and CFA crew(s) so that at all times crew can receive timely updates on the storm and flood situation. 	 Establishing effective liaison and communication with the Control Agency – VICSES 2.1 Upon receiving a request for assistance, CFA crew(s) should ensure VICSES is aware of activities being undertaken at the earliest opportunity. This should not limit a timely response to life threatening situations. 2.2 Where planned activations occur, the CFA crew should establish contact with the VICSES Incident Controller or Incident Management Team (IMT) including Division and/or Sector Commanders. This should include: 2.2.1 Registering your crew (eg. At the staging area or with the local SES Unit). 2.2.2 Obtaining a briefing including any known hazards and safety considerations. 2.2.3 Agree on the communications system between the SES and CFA crew(s) so that at all times crew can receive timely updates on the flood situation. 2.3 Report through the Chain of Command any injuries sustained during these operations and any damage to CFA property. The RDO should notify VICSES on any injuries or near miss situations in flood response.
	(7) Crew leaders must report any injuries sustained during these operations and/or any damage to CFA property	

SOP 10.26 - Supporting VIC SES Storm and Flood SOP

	through the Chain of Command. Where appropriate the CFA Agency Commander / State Duty Officer (SDO)/District Duty Officer (DDO) should notify VICSES of relevant injuries or near-miss situations.	
Supporting Storm Operations	(8) Storms can create complex operating conditions that can threaten CFA members' and the community's health and safety. The most common hazards in storm events are: fallen trees, scattered debris, high winds, thunder/lightning, heavy rain, and hail. (9) Cutting trees is a common task undertaken when supporting VICSES storm operations. The following must be accounted for when undergoing such activities: a. Only members who have chainsaw qualifications may undertake these activities, CFA members qualified in this may utilise chainsaw techniques in accordance with training. b. Similarly, cutting trees at heights (e.g. on a roof) should only be undertaken by members who are both chainsaw and safe work at heights qualified.	
Traveling and Operating in Flood Affected Areas	Crew Safety (10) Crews must be aware of the dangers of flood water:	

a. CFA members should be aware of the potential risks when entering into fast-moving water or flood debris.

Therefore, to avoid potential injury, CFA members are not to enter water that is over knee-deep.

- i. CFA members are to consider the potential unknown hazards under the surface of the water, such as hidden burrows, access pits, and ditches.
- ii. Walk slowly when walking through water and have someone monitor your progress if the ground surface is unknown.
- iii. CFA members must comply with state laws and regulations and wear a life jacket (also known as a PFD) on any maritime vessel during operations. Life jackets must be worn in heightened-risk situations in accordance with the Marine Safety Regulations 2023.
- iv. When operating on or around marine vessels, including working from structures over a water body, piers, jetties, and marinas, CFA members should conduct a dynamic risk assessment.
- b. When working at night there are increased risks due to poor visibility, hence, increased concentration and vigilance is required.

(11) Personal safety is paramount and crews should not enter water bodies where any risks are identified (e.g. unknown or high-risk depth, current, or ground surface).	
Operating CFA Vehicles/Appliances (12) Extreme care must be taken before considering driving through water due to unknown depths, debris, submerged objects, stability of the ground, or other unknown hazards.	
(13) Road closures must be observed. Seeking an alternate route or alternate means of access is the best option.	
(14) Where there is no alternate route or means of access and there is a threat to life or property, stop and undertake a dynamic risk assessment before entering the water. If it is deemed safe to proceed, CFA vehicles should not drive through flood water more than: a. The height of the appliance's axle height (wheel centre) for firefighting vehicles. b. The top of the wheel rim (upper rim) for four wheel and all wheel drive vehicles.	 3. Travelling in flood affected areas: 3.1 Extreme care must be taken before considering driving through water due to unknown depths, debris, submerged objects or stability of the ground. 3.2 Personal safety is paramount and crews should not enter water bodies where any risks are identified (eg. depth/current).

(15) If deemed necessary by the Incident Controller, CFA vehicles can be driven into water higher than the levels in

clause 14 above when required to perform lifesaving rescues. A dynamic risk assessment must be conducted to

determine that it is safe to do so.

- (16) Once in the water, maintain momentum. DO NOT STOP.
- (17) Dry and test the brakes after exiting the flood water.
- (18) If any vehicle enters flood waters where the water level exceeds the heights as described in clause 14, ensure the District Mechanical Officer(s) are notified and the vehicle should be inspected immediately. The District Mechanical Officer(s) will determine whether continued operation of the vehicle can occur.

- 3.3 Road closures must be observed. Seeking an alternate route or alternate means of access is the best option.
- 3.4 Where there is no alternate route or means of access, stop and undertake a risk assessment before entering the water. If it is deemed safe to proceed, CFA vehicles shall not drive through flood water more than:
 - the height of the appliances axle height (wheel centre) for firefighting vehicles;
 and
 - ii) the top of the wheel rim for Four Wheel and All Wheel Drive vehicles.
- 3.5 If deemed necessary by the Incident Controller, CFA vehicles can be driven into water higher than the levels 3.4 above, if required to perform lifesaving rescues and a dynamic risk assessment determines that it is safe to do so.
- 3.6 Once in the water, maintain momentum. DO NOT STOP.
- 3.7 Dry and test the brakes after exiting flood water.
- 3.8 If any vehicle enters flood waters where the water level exceeds the heights as described in 3.4, ensure DMO's are notified and the vehicle must be inspected immediately. The DMO's will determine whether continued operation of the vehicle can occur.

		When travelling on the back of CFA vehicles, all crew must
		remain seated and seat belts are to be worn at all times.
	(19) When traveling in the back of CFA vehicles, all	
	CFA members must remain seated and seat belts are	
	to be worn at all times.	
	(20) Wildfire Personal Protective Clothing (PPC) or	4. Personal Protective Clothing
Personal Protective	rescue overalls and a helmet should be worn if	
Clothing	operating outside of a CFA vehicle.	4.1 Wildfire PPC or rescue overalls and a helmet
	(21) Structural Personal Protective Clothing (PPC) is	should be worn.
	not suitable for floodwater as the weight of the	40.00 IDDO: NOT .:
	saturated	4.2 Structural PPC is NOT suitable for floodwater
	ensemble creates a drowning risk. The structural	events as the weight of the saturated ensemble creates a drowning risk. The structural
	ensemble also restricts the ability to dissipate body	ensemble also restricts the ability to dissipate
	heat, leading to	body heat, leading to heat stress and rapid
	heat stress and rapid onset fatigue.	onset fatigue.
	(22) Correct Personal Protective Clothing (PPC) should	
	be worn when cutting trees and when in the proximity	
	of unstable or fallen trees and structures.	
	(23) Storms and floods often carry debris containing	
	asbestos containing material, appropriate Personal	
	Protective Clothing (PPC) should be worn in	
	accordance with the Chief Officer's SOP 10.03	
	Asbestos Incidents.	
	(24) Wading boots should not be worn when	
	operationally practicable in flood operations. Boots	
	and other footwear	
	should be treated with an antibacterial/fungal	
	powder and should be dried thoroughly after use.	

	(25) When operationally practicable, leather gloves should not be worn during flood operations because they may become slippery when wet, hindering safety and operations. If there is concern over potential contaminants or sources of infection disposable nitrile gloves can be worn.	
	(26) If decontamination of Personal Protective Clothing (PPC) is required and alternative arrangements have not been made by VICSES, follow the procedure in the Chief Officer's SOP 11.01 Infection Control at Incidents.	
Swift Water Rescue	(27) CFA does not have a swift water rescue capability and members should not attempt swift water rescue – Victoria Police is the control agency for Water Rescue supported by VICSES.	5. Swift Water Rescue 5.1 CFA does not have a swift water rescue capability and members should not attempt swift water rescue – Victoria Police is the Control Agency for Water Rescue supported by
	(28) CFA rope techniques are not suitable for swift water events/rescue.	VICSES rescue boats. 5.2 CFA rope techniques are not suitable for swift water events/rescue.
	(29) CFA can support agencies in other ways such as maintaining safety appliance/vehicle access and crowd control.	

	(00) TI	C. Managing Fatigue I hadration and Frances
Managing Fatigue, Hydration, and Exposure	 (30) There is potential for sustained physical work in high humidity which can lead to rapid onset of fatigue. Ensure suitable rest breaks are taken. (31) Wearing waterproof clothing and sustained physical activity can induce dehydration. Ensure fluid intake as per CFA recommendations. 	 6. Managing Fatigue, Hydration and Exposure 6.1 There is potential for sustained physical work in high humidity which can lead to rapid onset of fatigue. Ensure suitable rest breaks are taken. 6.2 Wearing waterproof clothing and sustained physical activity can induce dehydration. Ensure fluid intake as per CFA recommendations.
	(32) Exposure (operating while wet, windy, and cold during storm and rain events) can lead to hyperthermia (heat stress) or hypothermia (cold, shivering, frostbite etc). Change into dry and warm clothes as soon as possible.	6.3 Exposure (operating while wet and cold during rain events) can lead to hyperthermia (heat stress) or hypothermia (cold, shivering, frostbite etc.) Change into dry and warm clothes as soon as possible.
Safety Notes	(33) Safety concerns and potential hazards: a. Falling/fallen trees. b. Flying objects/debris. c. Damaged structures may be unstable, contain shattered glass, or other hidden hazards such as electricity, gas, or asbestos. d. Fast flowing and/or deep water including across roadways. e. Erosion of road surfaces and/or footpaths. f. Below surface debris hazards. g. Heavy objects in the water leading to the risk of entrapment. h. Fallen trees that have been eroded around the base and exposed to high winds.	Potential Hazards Fast flowing and/or deep water including across roadways. Flowing aware of the dangers of flood water: Flowing water over ankle deep can be dangerous to personnel and can sweep you off your feet. CFA members are not to enter water that is over knee deep. When working at night there are increased risks due to poor visibility hence increased vigilance is required. Monitor the presence of your crew members.

 i. Damaged electrical equipment and power lines. j. Contaminated water and soil, potential contaminants include sewerage, chemicals, fuel, garbage, and other debris. k. Biological hazards from insects and/or dead stock. l. Uncontrolled distressed animals/stock. m. Bites from snakes, spiders, and mosquitoes that have been disturbed. n. Care must be taken when mounting and dismounting vehicles due to wet and/or muddy steps or work areas 	 Below surface debris hazards. Heavy objects in the water leading to the risk of entrapment. Falling trees: that have been eroded around the base and exposed to high winds. Electrical hazards: damaged electrical equipment and power lines. Contaminated water and soil: potential contaminants include sewerage, chemicals, fuel, garbage and other debris. Damaged structures may be unstable, contain shattered glass or other hidden hazards such as electricity, gas or asbestos. Biological hazards from insects and/or dead stock. Uncontrolled distressed animals/stock.
contaminants include sewerage, chemicals, fuel, garbage, and other debris. k. Biological hazards from insects and/or dead stock. l. Uncontrolled distressed animals/stock. m. Bites from snakes, spiders, and mosquitoes that have been disturbed. n. Care must be taken when mounting and dismounting vehicles due to wet and/or muddy	 Falling trees: that have been eroded around the base and exposed to high winds. Electrical hazards: damaged electrical equipment and power lines. Contaminated water and soil: potential contaminants include sewerage, chemicals, fuel, garbage and other debris. Damaged structures may be unstable, contain shattered glass or other hidden hazards such as electricity, gas or asbestos. Biological hazards from insects and/or dead stock. Uncontrolled distressed animals/stock. Bites from snakes, spiders and mosquitoes that have been disturbed. Care must be taken when mounting and dismounting vehicles due to wet and/or muddy steps or work areas which present a slip hazard. Rubber boots should be worn where safe to do so. Boots and other footwear should be treated with an antibacterial/fungal powder and should be dried thoroughly after use. Barrier cream and double gloving nitrile gloves should be worn under leather gloves when in wet conditions for long
(34) In the event that there are concerns over the presence of or exposure to infectious or contaminated substances, please refer to the following Chief Officer's SOPs: a. 11.01 Infection Control at Incidents SOP.	periods of time.

b. 11.02 Medical Monitoring – Biological and	
Hazardous Substances SOP.	
Nil	
Commonly defined terms are located in the CFA	
centralised glossary. Document-specific definitions are	
listed below.	
Flash Flood: A flood that rises quite rapidly with little	
or no advance warning, usually as a result of intense	
rainfall over	
a small area or dam failure, etc.	
Swift Water: Water that a boat with a motor cannot	
operate in, it includes rapids, shallow water, storm	
·	
• •	
	Hazardous Substances SOP. Nil Commonly defined terms are located in the CFA centralised glossary. Document-specific definitions are listed below. Flash Flood: A flood that rises quite rapidly with little or no advance warning, usually as a result of intense rainfall over a small area or dam failure, etc.

Section 5- Related Documents

State Emergency Management Plan 2023

State Emergency Management Plan, Flood Sub-Plan 2022

9.31 Welfare of CFA Members SOP

VICSES Maintain Safety Storms and Floods Training Package

QOU Dec 2022 Storms and Floods