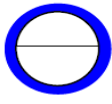
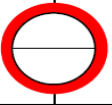

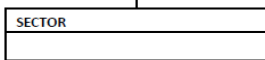
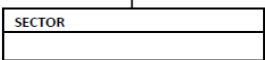


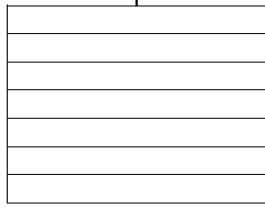
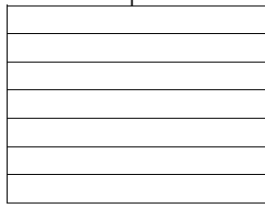


PRINCIPLES	
Crew Safety	LACES
PPE	Level 1 + Respiratory protection
Water Supply	Static, reticulated or mobile
Local Conditions	<ul style="list-style-type: none"> Meteorological Fuel Load Topography
Observe Fire Behaviour	Set initial obj, strategies and tactics
Contain to Control	Review State Strategic Control Priorities
Site Control	Isolate public from risk
Public Exposure	Road Closures and emergency messages
Public Information	Priority Action, update regularly
Site Safe for Departure	Blackout 20/100m
SIZE-UP	
Immediate Threat	Immediate threat to life and property
Weather	Predict direction and rate of spread
Fuel Load	Determine safe tactics
Initial Capability	Enough to contain under expected conditions?
Observed Hazards	Personal - Stags, Flame height Air - Power lines Vehicle Movement - smoke, drains
Communications	VHF comms plan from the outset Control Point
Incident Site Control	Control entry Manage smoke hazard
Additional Resources	Early. Ground and air.
FG3.5	BUSHFIRE
RESPONSE	V1.7

CONTROL POINT:	INCIDENT NAME:	NUMBER:																																																																																																																																																																																	
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FG3.5	BUSHFIRE	INITIAL COMMS	V1.7																																																																																																																																																																																

SAFETY	
Safety Procedures	Brief ground crews prior of pending ops Clear drop zone at 1 minute in-bound call Confirm drop zone is clear Ground crews re-enter on Ground Controller (GC) confirmation GC maintain contact with AAS throughout
Ground Crew Safety Brief	If you are caught in the drop zone: Move away from the fire line Don't run or panic Watch out for 'widow makers' Place hand tools well clear Ensure your helmet is on and secured Watch your footing Wash thoroughly with cold water if you are hit
Hazards	Stags. Power lines. Winds. Smoke/low visibility. Terrain. Other aircraft
OPERATING CHANNELS	
Suppression	Metro – 644/621/368 Regional – refer to Fire Bomber Operational Channel
Air Intelligence	VHF 369
CALLSIGNS	
'[Incident] Ground Control'	'Bomber [Number]'
'Air Attack [Number]'	'Helitak [Number]'
'Air Intel'	
STANDARD CALLS	
5 minute inbound	Acknowledge. Confirm strategies hazards and use of foam
1 minute inbound	Acknowledge and clear drop zone
FG3.5 BUSHFIRE	GROUND CONTROL 1 V1.7



Direct Attack	Indirect Attack	Combined Attack
Full Drop 	Restricted Drop 	
Roll Up 	Tag On 	
Tag On and Extend 	Spilt Load Drop 	
Line Building 	Half On-Half Off 	
Early Drop 	Late Drop 	
Gap 		
FG3.5 BUSHFIRE	GROUND CONTROL 2 V1.7	






CONTROL	
Anchor point	Reference point to start or end a drop
Drift	Lateral movement of a drop due to crosswind
Dummy Run	Simulated run by AAS to indicate run to pilot
Lead-In	Water Bomber to follow the AAS
Drop Length	Distance of single drop on the ground
Head End	Most forward end of the load on the ground
Tail End	The aft end of the load on the ground
Load Width	Width covered by a load on the ground
Recce	A low pass to assess target area
TASKING	
Tag-on	Connect the tail end of the load to a given point
Roll Up	Connect the head end of the load to a given point
Parallel Drop	Place load beside and touching a specific reference
Half On – Half Off	Drop half the load covering the reference, half outside
Split Load	Part load released, part load retained
Hold	Hold the load and await further advice
Reload and Stay	Return to base and cease bombing operations
Reload and Wait	Return to base and await further instructions
Reload and Return	Return to base, reload and return to the fire
FEEDBACK	
Bullseye	Indication of a drop placed exactly where required.
Early	Drop was (or is planned to be) short of the anchor point
Late	Drop was (or is planned to be) beyond the anchor point
Gap	A weak or missed area in a retardant line
FG3.5	BUSHFIRE GROUND CONTROL 3 V1.7

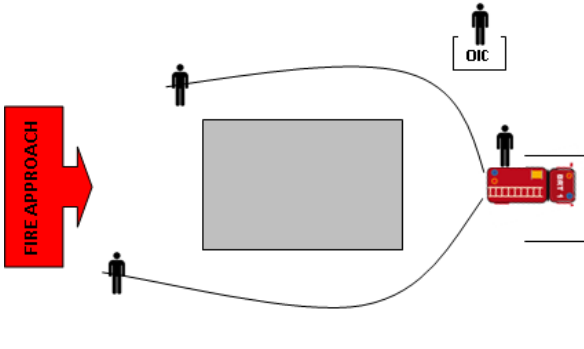
DRIP TORCH OPERATIONS					
Prepare Drip Torch	Check: <ul style="list-style-type: none"> • Tap function • Filler cap secure • Filler cap seals ('O' ring) Pre-mixed fuel only				
Authorised Pre-Mix	<table border="1"> <thead> <tr> <th>DIESEL</th> <th>PETROL</th> </tr> </thead> <tbody> <tr> <td>Three Parts (75%)</td> <td>One Part (25%)</td> </tr> </tbody> </table>	DIESEL	PETROL	Three Parts (75%)	One Part (25%)
DIESEL	PETROL				
Three Parts (75%)	One Part (25%)				
Safety of Others					
Complete Task	Move to task area Ignition Sequence <ul style="list-style-type: none"> • Loosen air vent screw • Wand tap ON • Tilt wand to ground • Drip fuel from the nozzle to wick (gauze) • Ignite pilot flame at wick • Regulate flow using wand tap Drip burning fuel onto vegetation				
Extinguish and Store Drip Torch	Stand torch upright and extinguish Storage <ul style="list-style-type: none"> • Ensure pilot light extinguished • Ensure drip torch is stored upright • Wand tap remains ON to prevent pressure build up in the reservoir • Close air vent screw 				
FG3.5	BUSHFIRE DRIP TORCH V1.7				

APPLICATION RATES				
DESIRED EFFECT	MIX RATIO (%)	DESCRIPTION	BRANCH	
			CONVENTIONAL (Non-aspirating)	FOAM (Aspirating)
Enhanced Penetration	0.1 – 0.3	FOAM SOLUTION	✓	
	0.3 – 0.5	WET FOAM	✓	✓
Fuel Insulation	0.5 – 0.7	FLUID FOAM		✓
	0.7 – 1.0	DRY FOAM		✓

A CLASS ALL HOURS BULK FOAM SUPPLIES		
Metro	Mercury Firesafety Foam Watch	Through ComCen
	GOSNELLS BFB WANNEROO BFB	Through ComCen
Country	Regional Offices: NORTHAM BUNBURY GERALDTON ALBANY	Through ComCen /RDC/ROC
2 pallets of A Class foam at each location. 2 pallets = 64 x 20L drums.		
FOAMWATCH DELIVERY OPTIONS		
Palletised 640-1000 L options:		<ul style="list-style-type: none"> • 32/20 litre drums • 5/200 litre drums • 1/1000 litre bulky bin
FG3.5	BUSHFIRE	A CLASS FOAM V1.6

CRITERIA		
Construction	Assess for flammability	
Defendable Space	No vertical fuels for 20m	
Vehicular Access	Appliances access	
Water Supplies	Static water supplies	
Firefighting Resources	Determine the number of structures able to be safely defended Min crew per structure: (1) OIC, (2) Crew, (1) Pump/Comms	
ASSESSMENT		
ASSESSMENT	SYMBOL	DEFINITION
Un-defendable		<ul style="list-style-type: none"> • Firefighters will not defend this structure. • Unlikely to survive a bushfire even if defended.
Possibly Defendable		<ul style="list-style-type: none"> • Firefighters will defend this structure where it has defendable space and access. • The building construction materials appear sound. • There is a sufficient water supply available. • There are enough firefighting resources to undertake defensive actions.
FG3.5	BUSHFIRE	STRUCTURAL TRIAGE V1.8

LEVEL OF INVOLVEMENT	SURVIVABILITY RATING - PRIORITY		
No Fire Involvement		SAVEABLE – (Priority depends upon threat)	
External Roof Involvement (Surface-based. Has not entered the roof space)		SAVEABLE – PRIORITY 1	
Full Roof Involvement (Fire has entered the roof space)		MARGINAL – PRIORITY 2	
Internal Involvement		LOST – PRIORITY 3	
Fully Involved		LOST – PRIORITY 3	
FG3.5	BUSHFIRE	STREET ASSESSMENT	V1.7

PRINCIPLES			
Appliance Positioning	<ul style="list-style-type: none"> Reverse into the lee side of structure Engine running, beacons on Cabin closed up 		
Mutually Supporting Defensive Posture	<ul style="list-style-type: none"> Two lines split each side of the structure Orientated to mutually support 		
Suppression of Approach Fuels	<ul style="list-style-type: none"> Assess defensible space and local fire behaviour Position sufficiently forward of the structure to be able to deny the approach of the fire. 		
Protected Withdrawal Route	<ul style="list-style-type: none"> For personnel and appliance 		
Mop-Up & Move On	<ul style="list-style-type: none"> Prioritise mop-up actions after the fire front has passed before rapidly deploying to the next at risk structure 		
			
FG3.5	BUSHFIRE	STRUCTURAL DEFENCE	V1.7

REQUEST FOR FIRE BOMBING		OPS-AIR-REQ-FBOM
ACTIVATION INFORMATION:		
Location:	_____	
Incident Controller:	_____	
Ground Controller (GC) Call Sign:	_____	
Fire Bomber Radio Channel:	_____	
Activation Criteria:	Public safety at risk <input type="checkbox"/>	Fire Crews in Imminent Danger <input type="checkbox"/>
	Assets at imminent risk <input type="checkbox"/>	Known high fuel loads and likelihood of excessive ROS and/or extreme fire danger <input type="checkbox"/>
ONCE REQUESTED IT IS IMPORTANT TO MONITOR THE FIRE-BOMBER / HELITAK CHANNEL		
OPERATIONAL PROCEDURES:		
FIVE MINUTE IN-BOUND CALL: The pilot, AAS or HS will make contact with the GC 5 mins from the fire-ground.		
1. Ground Controller to Acknowledge and Give Details of:		
Strategies of the Operation: _____		
Fire Sector involved in Fire-Bombing: _____		
Hazard to Aircraft: _____		
Use of Foam: Yes <input type="checkbox"/> No <input type="checkbox"/>		
ONE MINUTE IN-BOUND CALL: The pilot, AAS or HS will make contact with the GC 1 min from the fire-ground.		
2. Ground Controller Acknowledges and Gives Details of the Required Drop. Nominate:		
FIXED WING OPERATIONS:		
Anchor Point: _____	HELITAK OPERATIONS:	
Type of Drop: _____	Once the Helitak Supervisor (HS) has been given the tasking	
Size of Load: _____	at the 5 min call they will coordinate the Helitak operation	
Action of Drop: _____	by tasking all Helitak's assigned to the fire-ground.	
ENSURE CREWS ARE CLEAR OF THE DROP ZONE		
3. Advise Pilot "Drop Zone Is Clear"		
4. After Drop Inform Pilot of:		
Accuracy: (either)		
Early: <input type="checkbox"/>	Task: (either)	
Bullseye: <input type="checkbox"/>	Reload & Return <input type="checkbox"/>	<input type="checkbox"/>
Late: <input type="checkbox"/>	Reload & Wait <input type="checkbox"/>	<input type="checkbox"/>
Drift: <input type="checkbox"/>	Reload & Stay <input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Continue tasking pilots until Air Attack Supervisor (AAS) assumes responsibility. Maintain contact with AAS or HS to provide SITREP on safety, accuracy, hazards and any change in fireground strategies that have been initiated by either Incident Controller or IMT. Monitor and maintain contact and liaise with AAS/HS until operation is complete. 		
FG3.5	BUSHFIRE	REQUEST FIRE BOMBER
		V1.7

Task Understood	<ul style="list-style-type: none"> Obtain brief Confirm understanding Ask questions 	
PPE	<ul style="list-style-type: none"> All crew wearing correct PPE 	
Communications	<ul style="list-style-type: none"> Obtain communications plan Establish and maintain regular contact 	
Recall Signal	<ul style="list-style-type: none"> Brief all crews on agreed emergency warning signal <ul style="list-style-type: none"> – Three short horn blasts? – Siren? 	
Protective Water Supply	<ul style="list-style-type: none"> Maintain min 25% reserve of water for crew and vehicle protection. 	
Anchor point	<ul style="list-style-type: none"> Identify and brief a common anchor point to meet in emergencies 	
Escape Routes	<ul style="list-style-type: none"> Plan, brief and mark on briefing map 	
Safe Work Practices	<ul style="list-style-type: none"> Avoid driving into dense smoke Avoid parking in areas at risk of becoming involved in the fire Remain aware of the location of the fire at all times Observe local conditions and fire behaviour – act locally but report up 	
FG3.5	BUSHFIRE	SAFETY CHECKLIST
		V1.7



Notify of Emergency	<ul style="list-style-type: none"> • Transmit 'EMERGENCY EMERGENCY EMERGENCY' Message • Activate AVL (if available) Activate beacons/sirens • Notify SC/IMT of location and situation • Request aerial suppression support 		
Cease Operations	<ul style="list-style-type: none"> • Close down branches. Remove lines at pump • All crew return to appliance • Maintain personal protection lines 		
Prepare Appliance	<ul style="list-style-type: none"> • Park on burnt/cleared area – rear to fire • Pump running • Protective sprays ready • Personal lines charged. Test flow • Close doors, windows, air vents, turn air con to recirculate. • Deploy radiant heat shields (where Fitted) • Engine running on fast idle 		
Prepare Crew	<ul style="list-style-type: none"> • Conduct a head count • Mount the appliance • Take cover in cabin • Crouch below window level (if possible) • Dress in full PPE. Do not hose down crew • Don in cab air (if available) • Deploy burn over blankets • Drink water • STAY INSIDE THE VEHICLE 		
Protect Crew	<p>On imminent fire contact</p> <ul style="list-style-type: none"> • Activate Deluge system <i>or</i>, • Protective spray envelope entire cabin area-Incorporate pump area if possible • Wait for fire front to pass <p>Immediately after the fire front:</p> <ul style="list-style-type: none"> • Account for crew. Check appliance for damage. 		
FG3.5	BUSHFIRE	BURNOVER	V1.7

REMOVAL CRITERIA			
Danger to life			
Danger to life/property	<ul style="list-style-type: none"> • Spotting leading to fire spread • Risk to assets within tree fall zone 		
IDENTIFICATION			
Mark Tree as a Hazard			
Isolate the Hazard	<ul style="list-style-type: none"> • Cordon-off area, tracks, roads at risk 		
Report	<ul style="list-style-type: none"> • Inform the SC – SC inform Ops Officer • SC to request tree feller support • Record all saves and trees felled 		
Identify Location	<ul style="list-style-type: none"> • Mark nearest point on track • Map reference/GPS plot 		
Alert	<ul style="list-style-type: none"> • SC alert all personnel of hazard • SC in-brief relief crews of hazard 		
MARKING <i>(Colours can be mixed to advise desired action)</i>			
RED/PINK	Tree is suspect		
BLUE	Tree should be extinguished		
YELLOW	Tree should be felled		
MOBILISATION			
Request Tree Felling Teams through ComCen			
<i>Decisions to fell trees can only be made by qualified advanced tree fellers from P&W, DFES, USAR or other environmental officers who are trained to 'sound' trees.</i>			
FG3.5	BUSHFIRE	TREE REMOVAL	V1.7

COLOUR	PURPOSE
WHITE	Identifying a Sector Boundary
BLUE	Identifying where Mop-up
RED	Identifying Hazards (dead-end tracks, unstable surfaces, dangerous trees etc)
GREEN	Identifying Points of Interest (track in and out point identification, gates)
ORANGE	Identifying Water Points



FG 3.5 BUSHFIRE GLOW STICK MATRIX V1.7

COLOUR	PURPOSE
WHITE	Identifying a Sector Boundary
BLUE	Identifying where Mop-up required
RED / WHITE (HAZARD TAPE)	Identifying Hazards (dead-end tracks, unstable surfaces, dangerous trees etc)
GREEN	Identifying Points of Interest (track in and out point identification, gates)
ORANGE	Identifying Water Points
YELLOW	Identifying a tree to be felled
RED / WHITE / PLUS YELLOW	Identifying a hazardous tree to be felled
RED / WHITE / PLUS BLUE	Identifying a hazardous tree to mop-up
	DFES Demarcation Tape/ No entry unless authorised by IC
	DFES Warning Tape

FG 3.5 BUSHFIRE TAPE MATRIX V1.7

UXO CATEGORY	FIRE CONTROL	LT HT	FEL DZ	Air
Other	No constraints to fire operations.	Yes	Yes	Yes
Slight	Access for back burn and mop up is only on well-travelled tracks and identified on the site specific pre-plan. Rubber tyred tankers up to and including 4.4 can be used. FEL/DZ can be used to create a break removing surface fuels only.	Yes	Yes	Yes
Substantial Developed Land	Rubber tyred tankers up to and including 4.4. *1 Rubber tyre FEL can be used to remove light surface fuels on well established tracks.	Yes	No *1	Yes
Substantial Vacant Land	No access by land based firefighting resources. *1. Aerial Suppression may occur if IC in conjunction with Air Ops determines justified in accordance with SOP 3.11.1 – Aerial Suppression Response .	No	No	No *1
FG3.5	BUSHFIRE	UXO AREAS		V1.7

Operating Standards					
Ground Support	<ul style="list-style-type: none"> Must support plant with ground crew/appliances 				
Safety	<ul style="list-style-type: none"> Operate from appliances No closer than 50m No closer than 2½ times the height of trees being pushed Maintain radio comms with plant op 				
PPE	<ul style="list-style-type: none"> Provide bushfire PPE 				
Communications	<ul style="list-style-type: none"> Provide sector level comms 				
Construction Planning Rates					
FOREST TYPE	RATE OF PRODUCTION (m/hr)				
	D8/D7E	D6	WL	D4	GRADER
N Jarrah	1000	1000	1000	1000	-
S Jarrah	700	700	700	500	
Dense Karri	400	250	250		
Grasslands	1000	1000	2000	1000	2-6000
Spinifex	1000	1000	2000	1000	2-6000
Coastal Heath	1000	1000	2000	1000	2-6000
Mallee	1000	1000	2000	1000	2-6000
Banksia	1000	1000	2000	1000	2-6000
FG3.5	BUSHFIRE	OPERATING WITH PLANT			V1.7

CONSIDERATIONS			
Resourcing	<ul style="list-style-type: none"> Resource clean-down sites <i>before</i> implementing movement restrictions 		
Preliminary Clean Site - Dry	<ul style="list-style-type: none"> Remove bulk of soil and mud from the tracks/wheels/undercarriage of appliances Dry methods <ul style="list-style-type: none"> – Brush – Spade – Compressed air 		
Wash Down - Wet	<ul style="list-style-type: none"> Wash down only in the designated wash down area Wash down area: <ul style="list-style-type: none"> – Hard standing – Well drained surfaces 		
Runoff Capture	<ul style="list-style-type: none"> Capture or monitor runoff 		
Record Site			
FG3.5	BUSHFIRE	DIEBACK HYGIENE	V1.7

PRINCIPLES			
Minimum Capability	<ul style="list-style-type: none"> Command – With independent mobility Attack – To suit purpose/tasking Water Supply – A minimum of (1) mobile water tanker 		
Objective	<ul style="list-style-type: none"> A clear objective/aim for the task. 		
Task to Capability	<ul style="list-style-type: none"> Do not task beyond the capacity of the individual parts 		
Information	<ul style="list-style-type: none"> Mapping Street Triage details where available All known predictions of fire behaviour for each anticipated work location 		
Boundaries	<ul style="list-style-type: none"> Define Area of Responsibility (AoR) with clearly defined and mutually understood boundaries 		
Communications	<ul style="list-style-type: none"> Clear communications plans SITREP schedule 		
Logistics	<ul style="list-style-type: none"> Remain logistically supported by the tasking IMT Water Supplies – Stage mobile water tankers in support 		
Exit Strategy	<ul style="list-style-type: none"> Provide clear parameters as to when the task would be deemed untenable and the withdrawal of crews is expected 		
FG3.5	BUSHFIRE	TASKING TASK FORCES	V1.7

DUTIES			
Command	During all phases of the task: <ul style="list-style-type: none"> • The deployment convoy • The task • The re-deployment convoy (or withdrawal) 		
Planning	Assess situation. Plan task		
Tasking	Task crews in accordance with plan. Brief: <ul style="list-style-type: none"> • Latest known fire behaviour and predictions • Aim of task • Task • Water point/reticulation details • Communications plan • Criteria for abandoning task • Withdrawal route and rendezvous 		
Report	Maintain the required SITREP schedule		
Safety	<ul style="list-style-type: none"> • Only task crews on feasible tasks that achieve, or contribute to achieving, the objective • Maintain communications throughout the TF • Direct withdrawal if deemed necessary • Continually update crews on fire behaviour/wind changes 		
FG3.5	BUSHFIRE	TASK FORCE LEADER	V1.7

DUTIES			
Command	During all phases of the task <ul style="list-style-type: none"> • Assist TF leader to coordinate crews to achieve overall TF objective. • Task and deploy allocated resources • Monitor progress • Direct withdrawal if required 		
Plan	<ul style="list-style-type: none"> • Assess the feasibility of allocated tasks (fire behaviour info quickly dates) • LACES elements 		
Tasking	Brief each crew member: <ul style="list-style-type: none"> • Expected fire behaviour/approach direction • Their task, the purpose of their task • Water point and conservation plan • Withdrawal plan, rendezvous point and planned signals to withdraw • Communications plan 		
Comms	Maintain communications <ul style="list-style-type: none"> • Crews – Update regularly • TF – SITREP regularly 		
Safety	<ul style="list-style-type: none"> • Plan and brief all crew members (as a group) on the actions to be taken if required to abandon the task • Monitor and manage welfare/fatigue • Maintain regular personal contact • Plan the criteria to abandon the task 		
FG3.5	BUSHFIRE	CREW LEADER	V1.7

Operational Considerations			
P	Position and property Threatened Assess the situation Exposures/assets at risk/critical infrastructure		
A	Area Size of fire		
F	Fuel density and Type Estimate rate of spread		
T	Time to Control Establish IMT Decide on objectives, strategies and tactics Consider delegating key functions		
A	Assistance Required Traffic Management Road closures Additional resources		
C	Communications and Control Point Radio frequencies/Communications plan Location of control point Consider media		
S	Surface Wind Strength and Direction Send SITREP Safety is first priority		
FG3.5	BUSHFIRE	PAFTACS	V1.7

DOCUMENT HISTORY

VERSION	DATE	DESCRIPTION of CHANGE
1.0	Dec 13	Insert Version control, update formatting.
1.1	Dec 13	Altered Emergency Message
1.2	Aug 14	<ul style="list-style-type: none">• Close doors, windows, air vents turn air conditioner to recirculate and drop curtains (if available)
1.3	Aug 14	<ul style="list-style-type: none">• Protective spray envelope entire cabin area-Incorporate pump area if possible• Take cover in cabin
1.4	Dec 17	<ul style="list-style-type: none">• Incorporate AVL, deluge system and incab air in burn over field guide• Updated initial comms plan• Updated Burnover procedure• Updated Principles response FG• Updated UXO field guide interpretations for fire control• Relocated street assessment and structural defence FG• Removal of IAP form 1
1.5	Mar 18	<ul style="list-style-type: none">• Update UXO FG to reflect changes in SOP• Formating
1.6	Jun 18	<ul style="list-style-type: none">• Inserted fuel can opening technique• Inserted fuel can identification• Removed these and placed in FG 3.2 Incident Control
1.7	Aug 18	<ul style="list-style-type: none">• Inserted Glow stick matrix• Inserted Flagging tape matrix
1.8	Sept 19	<ul style="list-style-type: none">• Updated Structural Triage FG to reflect changes in SOP