



### In-Flight Emergency Response Checklist (IFER)

# **ATTENTION**

### Temporary amendments may apply

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### **Document control**

### Procedure

### Version 21

### Effective 20 March 2025

Authorised: ATM Standards – Colleen Kitson (Acting) Airservices Australia HQSRG A8 SO1 CM ANSP - Royal Australian Air Force

### **Change summary**

In-Flight Emergency Response Checklist Version 21: 20 March 2025				
Part/Chapter number	Change description	CRC		
Throughout	Various editorial amendments or corrections to bring into line with MATS content	40195		
DC - 6	Changed HQJOC position titles for clarity	-		
1 - 2-5	Corrections and editorial amendments to emergency phases table	-		
1 - 5	Remove reference to 'VFR on top' from 'Uncertain of position' row as phase is not required by MATS in this circumstance	-		
7 - 4-5	Amended title to 'Inadvertent VFR on Top' to differentiate from the intentional IFR procedure 'VFR on Top'			

This document was created using Air Traffic Services (ATS) Operational Document Template (C-Temp0256) Version 8.

### View change summaries for the previous six months

### List of effective pages

Part		Pages	Version: Effective date
DC	Document control	6	Version 21: 20 March 2025
1	Critical initial actions	6	Version 21: 20 March 2025
2	Unlawful interference	2	Version 21: 20 March 2025
3	General aircraft emergencies	8	Version 21: 20 March 2025
4	Aircraft equipment failures	6	Version 21: 20 March 2025
5	Landings	4	Version 21: 20 March 2025
6	Medical/Military emergencies	6	Version 21: 20 March 2025
7	VFR emergencies	8	Version 21: 20 March 2025
8	Unauthorised RPAS within controlled airspace	2	Version 21: 20 March 2025

### General

The <u>Manual of Air Traffic Services (MATS)</u> specifies policy and procedures applicable to aircraft emergencies and SAR alerting. The In-Flight Emergency Response Checklists contain information and guidance on the handling of in-flight emergencies (IFEs).

This document contains procedures for responding to specific IFEs as detailed in the following checklists. It contains supplemental information which should be considered or implemented as appropriate.

- 1) An ATSO on becoming aware of an IFE should immediately carry out the Critical Initial Actions checklist in an attempt to stabilise the situation.
- 2) Attempt to ascertain the extent of the pilot's requirements for assistance. Provision of assistance should then be directed to satisfy these requirements.
- 3) ATSOs shall alert their supervisor and hand over management of the IFER to an IFER manager (if available) as soon as possible after declaration of the IFE.
- 4) Alert JRCC Australia or Joint Personnel Recovery (JPR) to a situation likely to require search and rescue action at the earliest opportunity. JPR should only be contacted when the situation involves military aircraft.
- 5) Seek a balance in acquiring necessary information while keeping communications to a minimum.
- 6) Consider obtaining information from sources other than the distressed aircraft, e.g. company, squadron, another pilot or SAR databases held by JRCC Australia.
- 7) Do not assume that relevant information is necessarily common knowledge to all parties involved.
- 8) Consider the merits of retaining a distressed aircraft on a discrete frequency. This may be best achieved by requiring other traffic to change frequency.
- 9) Unidentified aircraft subject to an emergency should make regular radio contact either by responding to ATS transmissions or keeping agreed skeds. Appropriate scheduled reporting intervals will vary with circumstances, five minutes is common.
- 10) Subject to cloud cover and aircraft performance, increased altitude may assist identification, improve VHF/UHF radio communication, clear hazards and assist visual and radio navigation.
- 11) The optimum response to IFEs may vary with each situation. Consider alternative courses of action. Resist any inclination to a predetermined approach.

- 12) JRCC Australia is available to provide assistance to Airservices Australia with regards:
  - i) arranging for the provision of ditching forecasts from the Bureau of Meteorology (BoM)
  - ii) position of ships in the area of a ditching and any reports of local weather conditions
  - iii) arranging coordination of maritime assets for over water emergencies
  - iv) on request, provide access to the JRCC Australia Aviation Database information in relation to contact and airfield details
  - v) when Airservices Australia is the lead agency, providing general assistance where resources are available.
- 13) ATSOs shall seek ATMD approval before diverting aircraft to assist in an emergency. In an emergency, when an ATMD is not immediately available, ATSOs may request, but not instruct, an airborne aircraft to divert for the purpose of providing assistance. Any such action taken must be referred to an ATMD at the earliest opportunity.
- 14) During an IFE, ATSOs should continually review checklist items to ensure all necessary actions have been taken.
- 15) Keep it simple.

# IFER checklist telephone contacts

1800 815 257
1300 243 222
02 6268 4442
1
02 6128 4849; or
02 6128 4850
02 6128 4810
02 6128 4333

# Critical initial actions Emergency

Acknowledge	<ul> <li>Alarms</li> <li>Confirm aircraft's identity and location</li> <li>Record time.</li> </ul>	
Assess	<ul> <li>Nature of the problem</li> <li>Pilot's intentions</li> <li>Pilot's requirements</li> <li>Time available for response.</li> </ul>	
Separate	<ul> <li>Resolve immediate separation/conflict problems</li> <li>Provide safety alerts on traffic, terrain or other hazards.</li> </ul>	
Coordinate	Immediate coordination requirements	
Phase	<ul><li>Declare the appropriate phase</li><li>Notify supervisor.</li></ul>	

# **Emergency phases**

	Emergency	Latest time action should be taken			
	condition	Comm checks	INCERFA	ALERFA	DETRESFA
I	<b>Uncertainty</b> exists for aircraft's safety	At appropriate time	At appropriate time	-	-
	Apprehension exists for aircraft's safety	At appropriate time	-	At appropriate time	-
	Reasonable certainty that the aircraft is in danger	At appropriate time	-	-	At appropriate time
	•	gular operation	ed to <b>Failure To</b>	<b>Report</b> or to re	ported or
	Unlawful interfere	nce			
1	Bomb warning	-	-	Immediately - except on the ground where ATS is on duty	Immediately when determined 'genuine' - <b>except</b> on the ground where ATS is on duty
	Hijack	-	-	Immediately	-
	Distress beacon				
	Activated for greater than 10 seconds	-	-	-	Immediately
	Autonomous distre	ess tracking (AD	T) transmitter		
	When detected	Immediately	-	-	3 min after communication checks commenced and no response
I	Emergency declarations				
	ADS-C Emergency without voice or CPDLC confirmation		Immediately		
	'MAYDAY' RECEIVED				When condition is confirmed

Emorgonay condition	Latest time action should be taken			
Emergency condition	Comm checks	INCERFA	ALERFA	DETRESFA
Fuel shortage				
Fuel is exhausted	-	-	-	Immediately
(unless SARTIME notified)				
Aircraft deviating into a	ctive Restricted of	or Military Op	perating Are	a
On entry	-	-	When recognised	
Instruments				
Not on proper track or at proper level	-	When recognised	There is reason to believe the	-
Unable to use appropriate navaids			conduct of the flight is	
Experiencing navigational difficulties or lost			in jeopardy	
Aircraft malfunction				
Impaired operating efficiency	-	-	When recognised	-
<b>Difficulty</b> - maintaining height/making a normal approach and landing				
Major impaired operating efficiency - forced landing likely	-	-	-	When recognised
Aircraft communications	failure			
Departure after ready to taxi or take-off call	10 min after taxiing call	30 min after taxiing call	-	-
Departure after airborne call	5 min after airborne call	30 min after airborne call	-	-
Position or scheduled report, NOCOM cancellation time or OPS NORMAL time	3 min after report due	30 min after report due	-	-
After a frequency change	3 min after call due	30 min after call due	-	-
NO response after a call by a ground station, when listening watch is required	3 min after call	30 min after call	-	-
Arrival at a non-controlled aerodrome	10 min after estimate	30 min after estimate	-	-

Latest time action should be taken				
Emergency condition	Comm checks	INCERFA	ALERFA	DETRESFA
Arrival or departure having nominated SARTIME	At SARTIME	30 min after SARTIME	-	-
After subsequent checks and enquiries to other relevant sources fail to reveal news of the aircraft	-	-	When recognised	-
Unsuccessful checks and enquiries indicate the aircraft is probably in distress	-	-	-	When recognised
Failure to land		' 		
Aircraft at a controlled aerodrome fails to report landing after having been given approach or landing instructions	At estimated landing time	-	5 min after estimated landing time	-
Aerodrome emergency la	anding and force	d landing or	ditching	
That a pilot is about to, or has, force landed, ditched or crashed	-	-	-	Immediately
Landing not forced				
<ul> <li>Pilot is about to, or has, made a landing other than a forced landing:</li> <li>a) where the position is in doubt</li> <li>b) on an unprepared surface or</li> <li>c) at an aerodrome (in the case of helicopters, a landing area) which is considered by the pilot as being operationally unsuitable.</li> </ul>	-	When recognised	-	-

Emorgonov condition	Latest time action should be taken			
Emergency condition	Comm checks	INCERFA	ALERFA	DETRESFA
Нурохіа				
Unusual pilot behaviour	-	-	When recognised	-
Emergency Autoland Sys	stem (EAL) activ	ation		
Pilot incapacitation	-	-	-	When recognised
Hung ordnance/unsafe	weapons			
Unsafe weapons	-	-	When recognised	-
Hydrazine				
F-16 Emergency Power Unit (EPU) has been activated	-	-	When recognised	-
Ejection				
Pilot advises premeditated ejection or	-	-	-	When recognised
You become aware that a pilot has ejected				
Uncertain of position				
Not on proper track or at proper level	-	When recognised	There is reason to	-
Unable to use appropriate navaids			believe the conduct of the flight is	
Experiencing navigational difficulties or is lost			in jeopardy	
Inadvertent VFR on top of cloud				
VFR in IMC/DAY VFR at	night	·	·	·
VMC flights in IMC, or daylight flights at night	-	-	When recognised	-

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# **Bomb warning**

### Aircraft airborne or on ground at aerodrome where ATC not on duty

Record	Last observed/known position, altitude, track and speed		
Consider	<ul> <li>Increasing ADS-C reporting rate to five minutes if not identified</li> <li>Initiating skeds.</li> </ul>		
	All instances: • National Situation Room		
Notify	<ul> <li>Aircraft at uncontrolled aerodrome:</li> <li>Aircraft operator/representative or, if unavailable, pilot in command</li> <li>Aerodrome operator</li> </ul>		
	<ul> <li>Aircraft in flight:</li> <li>JRCC Australia/JPR</li> <li>Pilot when threat: <ul> <li>has been assessed as genuine by the aircraft operator; or</li> <li>has not been assessed but, after 30 minutes, is treated as 'genuine'.</li> </ul> </li> </ul>		
Aircraft at controlled aerodrome	Follow AEPs or Local Instructions		
Relay	Messages between aircraft and authorities as requested		
Threat 'genuine'	Upgrade to DISTRESS phase		

# Hijack

# Avoid overt reference to the nature of the situation and maintain normal communications

- Do not expect normal response from aircraft
- Avoid referring to the hijack unless the aircrew has specifically referred to it.

Respond to aircraft squawking code 7500	<ul> <li>Use (<i>callsign</i>) CONFIRM SQUAWKING ASSIGNED CODE</li> <li>Regard the absence of a reply to the above as possible evidence of the emergency</li> <li>See also <u>Emergency declarations by data link</u> <u>aircraft within your FIR on Page 3-2</u></li> </ul>		
Record	Last observed/known position, altitude, track and speed. Plot aircraft track		
Notify	<ul> <li>National Situation Room</li> <li>JRCC Australia/JPR</li> <li>Aircraft operator/representative</li> <li>Aerodrome operator of known or assumed destination</li> <li>Adjacent/concerned units.</li> </ul>		
Relay	Appropriate messages between aircraft and authorities - exercise prudence		
Consider	<ul> <li>Informing other aircraft in the vicinity</li> <li>Using other aircraft for information</li> <li>Using different frequencies where possible</li> <li>Increasing ADS-C reporting rate to five minutes if not identified (unless a concurrent ADS-C emergency is in effect - in which case this is automatic).</li> </ul>		

Distress beacon detected		
Confirm	The beacon has been heard for longer than 10 seconds	
Request	Aircraft in the vicinity to monitor 121.5	
Use form	Complete the <u>Distress Beacon Signal Report Form</u> for each aircraft report	
Advise	JRCC Australia/JPR	

### Autonomous distress tracking (ADT) transmitter detected

Confirm	Immediately
Determine	If communications are established, any impairment to operating efficiency
Advise	JRCC Australia/JPR

### **Emergency declarations** by data link aircraft within your FIR

### **Do NOT send a 'Demand Contract'**

CPDLC	'PAN PA	N' or 'N	AYDAY'

Left click	On the ACID of the MAYDAY or PAN message	
Acknowledge	By most efficient means (voice if able)	
Send	(freetext) 'ROGER MAYDAY (or PAN)'	
Change	The ADS-C reporting rate if required (automatic if emergency sent by ADS-C)	
Implement	IFER Procedures	
Deactivate	Automatic transfer <b>DO NOT</b> manually transfer connection	
ADS-C emergency indication no 'PAN PAN' or 'MAYDAY'		
Check	For inadvertent activation	
Send message	By voice or CPDLC 'CONFIRM ADS-C EMERGENCY'	
If inadvertent	Wait for cancellation at next periodic report, then set appropriate ADS-C reporting rate	
If intentional	Go to IFER Checklist	
If no response	<ul> <li>EMG mode still active</li> <li>See <u>Hijack on Page 2-2</u></li> </ul>	

### **Emergency declarations** by data link aircraft outside your FIR

### Do NOT send a 'Demand Contract' Do NOT increase the ADS-C reporting rate

**CPDLC 'PAN PAN' or 'MAYDAY'** 

Left click	On the ACID of the MAYDAY (or PAN) message	
Send	(freetext) 'ROGER MAYDAY (or PAN)'	
Coordinate	With the adjoining unit and/or Supervisor to ensure they are aware of and accept responsibility for the emergency	
Maintain	An active connection until better assistance can be provided by other means	
ADS-C emergency indication no 'PAN PAN' or 'MAYDAY'		
Coordinate	With the adjoining FIR to ensure they are aware of and accept responsibility for the emergency	

Sn	noke or Fumes
Confirm	<ul> <li>Is smoke visible in the cockpit or cabin?</li> <li>What colour is the smoke? (e.g. black, light grey)</li> <li>Are fumes overpowering or impairing your ability to control the aircraft?</li> <li>Are fumes endangering passengers?</li> <li>Do the fumes have an electrical or fuel smell?</li> </ul>
Obtain	<ul><li>POB</li><li>Endurance</li><li>Dangerous cargo.</li></ul>
Consider	<ul> <li>Possible landing areas: <ul> <li>lighting</li> <li>dimensions</li> <li>NOTAM</li> <li>availability of emergency services.</li> </ul> </li> <li>Weather <ul> <li>Terrain</li> <li>Providing navigation assistance</li> <li>Track clear of populous areas</li> <li>Using other aircraft in the vicinity for: <ul> <li>possible intercept/sighting and/or escort</li> <li>communications relay</li> <li>aircraft handling advice</li> <li>SAR, if required.</li> </ul> </li> </ul></li></ul>
Record	Last observed/known position, altitude, track and speed
Notify	JRCC Australia/JPR if SAR action is likely
May require IFER	<u>Hypoxia on Page 6-1</u> (from smoke or fumes) <u>Aerodrome emergency landing on Page 5-1</u> <u>Forced landing or ditching and Landing - not forced on</u> <u>Page 5-3</u>

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	Fuel shortage
Obtain	<ul> <li>POB</li> <li>Endurance</li> <li>Dangerous cargo</li> <li>In-flight conditions</li> <li>Operational implications of the malfunction.</li> </ul>
Record	Last observed/known position, altitude, track and speed
Consider	<ul> <li>If IMC, actions to achieve and maintain VMC</li> <li>Possible landing areas: <ul> <li>local pilot knowledge</li> <li>lighting</li> <li>dimensions</li> <li>NOTAM</li> <li>availability of services.</li> </ul> </li> <li>Weather: <ul> <li>en route winds (head/tail)</li> <li>VMC areas</li> <li>destination conditions.</li> </ul> </li> <li>Terrain</li> <li>Providing navigation assistance - track clear of populous areas</li> <li>Using other aircraft in the vicinity for: <ul> <li>possible intercept/sighting and/or escort</li> <li>weather reports</li> <li>communications relay.</li> </ul> </li> <li>Aircraft handling advice</li> <li>SAR, if required</li> <li>Obtain expert advice to optimise remaining fuel</li> <li>Straight in approach requirement, particularly for fast military aircraft (vice initial and pitch).</li> </ul>
May require IFER	Aerodrome emergency landing on Page 5-1 Forced landing or ditching and Landing - not forced on Page 5-3
Notify	JRCC Australia/JPR if necessary

F	uel dumping
Obtain	Expected duration of fuel dumping
Record	<ul> <li>Last observed/known position, altitude, track and speed</li> <li>Area where the fuel was dumped</li> <li>Weather conditions.</li> </ul>
Reserve airspace	<ul> <li>Vapour zone dimensions - 1000 FT above, 2000 FT below, 5 NM behind and 1/2 NM on each side of the aircraft</li> <li>Reserve vapour zone airspace from commencement until 5 minutes after completion</li> <li>Do not permit fuel to be dumped in a circular or race track pattern</li> <li>Where possible aircraft should maintain a minimum height of 6000 FT AGL</li> <li>Make every effort to keep other aircraft clear of the vapour zone.</li> </ul>
Hazard alert	The fuel dumping including the approximate location of the 'vapour zone' until 5 minutes after fuel dump completion
Consider	<ul> <li>Terrain</li> <li>Track clear of populous areas</li> <li>Providing navigation assistance</li> <li>Possible landing areas</li> <li>Destination conditions</li> <li>Local pilot knowledge</li> <li>Availability of services</li> <li>En route winds (head/tail)</li> <li>SAR, if required</li> <li>Using other aircraft in the vicinity for: <ul> <li>weather reports</li> <li>communications relay.</li> </ul> </li> </ul>
May require IFER	Aerodrome emergency landing on Page 5-1 Forced landing or ditching and Landing - not forced on Page 5-3
Notify	JRCC Australia/if necessary (not required here if in critical actions)

### Aircraft deviating into active Restricted or Military Operating Area

Continue to provide flight information and alerting services

When unauthorised entry into active Restricted or Military Operating Area has occurred or is imminent

> SAFETY ALERT. RESTRICTED AREA (or MILITARY OPERATING AREA) ACTIVE. [SUGGEST] TURN LEFT/RIGHT IMMEDIATELY HEADING (three digits)

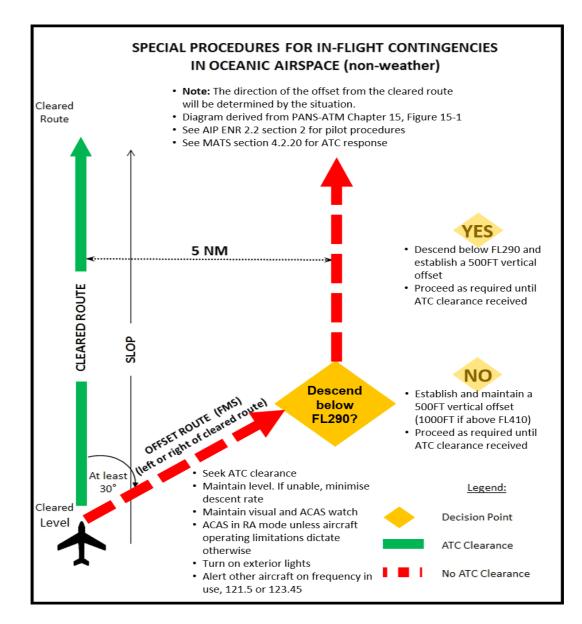
Issue safety alert

or

SAFETY ALERT. RESTRICTED AREA (or MILITARY OPERATING AREA) ACTIVE. [SUGGEST] CLIMB/ DESCEND IMMEDIATELY TO (level)

	ed deviation into active Restricted or area is unavoidable (e.g. due weather)
Issue safety alert	<ul> <li>Advise they are no longer operating under a clearance</li> <li>Terminate control service (<i>where applicable</i>)</li> <li>Advise they are proceeding at their own risk.</li> </ul>
	SAFETY ALERT. UNABLE TO ISSUE CLEARANCE. PROCEED AT YOUR OWN RISK. [CONTROL SERVICE TERMINATED] SQUAWK 7700. • Declare ALERFA

# Deviation from ATC clearanceAircraft deviating and ATC cannot issue the<br/>clearance due to conflicting traffic:Issue safety alert• Advise the pilot that clearance for the deviation<br/>is not available<br/>• Provide traffic information to the pilot; and<br/>• Request the pilot's intentions.Note: Under the provisions of the rules of the air a<br/>pilot may deviate from any clearance provided<br/>the circumstances render such departure<br/>absolutely necessary in the interests of safety.



Instrument failure		
Obtain	<ul> <li>POB</li> <li>Endurance</li> <li>Dangerous cargo</li> <li>Operational implications of the malfunction.</li> </ul>	
Record	Last observed/known position, altitude, track and speed	
Consider	<ul> <li>Providing weather information</li> <li>Providing navigation assistance to establish VMC</li> <li>Obtaining assistance from other pilots</li> <li>Using diverted aircraft for advice or escort</li> <li>Monitoring height and heading on the ATS surveillance system</li> <li>Implementing no-compass vectoring.</li> </ul>	
Notify	JRCC Australia if SAR action is likely (not required here if in critical actions)	

# **Directional guidance phraseologies**

Circumstance	Phraseology	
Notify pilot of intention to use directional indicator failure procedures	ATS SURVEILLANCE SERVICE WILL CONTINUE, MAKE ALL TURNS RATE ONE (or RATE HALF or (number) DEGREES PER SECOND), EXECUTE INSTRUCTIONS IMMEDIATELY UPON RECEIPT	
When suspected by ATC	CONFIRM HEADING	
If heading response appears at variance with the track of the ATS surveillance symbol	SUSPECT YOUR DIRECTIONAL INDICATOR HAS FAILED	
Turn instructions	TURN LEFT (or RIGHT) NOW	
	STOP TURN NOW	
Reference AIP GEN 3.4 ATS Surveillance System Communication and		

Navigation

<b>Aircraft malfunction</b> Able to continue (with restrictions), aircraft proceeds to destination		
Obtain	<ul> <li>POB</li> <li>Endurance</li> <li>Dangerous cargo</li> <li>Operational implications of the malfunction.</li> </ul>	
Record	Last observed/known position, altitude, track and speed	
Consider	<ul> <li>Using other aircraft for:</li> <li>possible intercept/sighting and/or escort</li> <li>weather reports</li> <li>communications relay</li> <li>aircraft handling advice</li> <li>SAR, if required.</li> <li>Obtaining aircraft type specialist</li> <li>Straight in approach requirement, particularly for fast military aircraft (vice initial and pitch)</li> <li>Requirement for long final.</li> </ul>	
May require IFER	Aerodrome emergency landing on Page 5-1	

Aircraft malfunction	
Not able to continue	
Obtain	<ul> <li>POB</li> <li>Endurance</li> <li>Dangerous cargo</li> <li>Operational implications of the malfunction.</li> </ul>
Record	Last observed/known position, altitude, track and speed
Advise	LSALT
Consider	<ul> <li>Possible landing areas:         <ul> <li>lighting</li> <li>dimensions</li> <li>NOTAM</li> <li>availability of emergency services.</li> </ul> </li> <li>Weather</li> <li>Terrain</li> <li>Providing navigation assistance</li> <li>Track clear of populous areas</li> <li>Using other aircraft in the vicinity for:         <ul> <li>possible intercept/sighting and/or escort</li> <li>weather reports</li> <li>communications relay</li> <li>aircraft handling advice</li> <li>SAR, if required.</li> </ul> </li> </ul>
Notify	JRCC Australia/JPR if SAR action is likely (not required here if in critical actions)
May require IFER	Hypoxia on Page 6-1(from smoke or fumes)Aerodrome emergency landing on Page 5-1Forced landing or ditching and Landing - not forced on Page 5-3

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### Aircraft communications failure

(1 of 3

General actions		
Check	YOUR OWN EQUIPMENT It is not always the aircraft at fault	
Determine	Last known contact by radio and/or the ATS surveillance system if applicable	
Attempt contact	<ul> <li>On alternative frequencies:         <ul> <li>current, previous and next</li> <li>company/squadron (Military - Area or Guard)</li> <li>distress (121.5/243.0)</li> <li>other possible (CTAF/Flightwatch)</li> <li>voice modulated Navaid (e.g. NDB)</li> <li>SELCAL/HF</li> <li>CPDLC.</li> </ul> </li> <li>Message on ATIS.</li> </ul>	
Check	<ul> <li>With operating company/squadron or other networks (Marine, RFDS):</li> <li>Satellite phone, mobile phone or pager on board</li> <li>Has the aircraft a recent history of radio failure?</li> </ul>	
Assess problem	<ul> <li>Is aircraft receiver functioning?:</li> <li>Instruct aircraft 'SQUAWK (or TRANSMIT ADS-B) IDENT'</li> <li>Instruct aircraft to turn</li> <li>Instruct aircraft to change mode or code</li> <li>Non modulated reply from aircraft (microphone may be U/S)</li> <li>Instruct pilot to 'rock wings' (tower by day)</li> <li>Twice flashing landing or navigation lights (tower by night)</li> <li>Military - triangular pattern: <ul> <li>right turns - receive only</li> <li>left turns - no transmit or receive.</li> </ul> </li> </ul>	
Receiver functioning		
Continue	To pass instructions/information as appropriate	
Repeat	<ul> <li>Instructions to aircraft</li> <li>Pilot acknowledgment by non-modulated replies (keying microphone) if partial transmission/carrier wave available.</li> <li>See Speechless radar approach procedures (ERSA) on Page 4-6</li> </ul>	
If time, determine	Additional pilot requirements/other systems malfunctions	

Aircraft	communications failure (2 of 3)	
Receiver not functioning		
Assume	<ul> <li>Communication Failure Procedures (ERSA - EMERG) or other agreed procedure</li> <li>Separate as appropriate.</li> </ul>	
Advise	<ul><li>Other aircraft likely to be affected</li><li>Aircraft operator/squadron.</li></ul>	
Consider	<ul> <li>Possibility of other more serious emergency situations</li> <li>May result from <u>Hypoxia on Page 6-1</u></li> <li>Using other aircraft for possible intercept/sighting and/or escort</li> <li>Using tower signal light.</li> </ul>	
Once communications ability determined		
Assist	<ul> <li>Continue to pass instructions/information even if not acknowledged</li> <li>Broadcast on selected frequencies at H (hour) +10, H+25, H+40 and H+55:         <ul> <li>Control instructions to continue flight as planned</li> <li>Alternatives available (e.g. return or divert to nearest aerodrome)</li> <li>Appropriate navigation advice</li> <li>Weather conditions ahead/nearby/destination/alternate</li> <li>Minimum altitude to maintain surveillance coverage</li> <li>Position advice.</li> </ul> </li> </ul>	
In surveillance	<ul> <li>Monitor flight progress to determine intentions (ERSA procedures or other agreed procedure)</li> <li>If leaving coverage record last observed/known position, altitude, track and speed</li> <li>Alert other units if aircraft likely to enter their coverage.</li> </ul>	
Outside surveillance	<ul> <li>Determine last known/reported position</li> <li>Check flight plan for consistency with ESTs.</li> </ul>	
Calculate	<ul> <li>Last time of arrival and fuel expiry from flight notification and/or total remaining endurance advised</li> <li>If no flight plan/notification filed obtain information from owner, company or squadron.</li> </ul>	
Reserve airspace (MATS 4.2)	<ul> <li>En route, at destination and alternate (ETA/EAT+ 30 min)</li> <li>Consider pilot alternatives</li> <li>Advise adjoining and destination units.</li> </ul>	

Aircraft communications failure (3 of 3)		
No communications determined		
Check	For aircraft arrival at destination aerodrome or nominated alternate	
Notify	JRCC Australia if comms checks fail to locate aircraft	
May require IFER	Aircraft malfunction on Page 4-3 Aerodrome emergency landing on Page 5-1	

# Speechless radar approach procedures (ERSA)

Sit	uation	Transmission
1)	Pilot request for Speechless Radar approach when microphone(s) are unserviceable (carrier wave only available)	Pilot transmits four separate and distinct unmodulated transmissions of one second duration
2)	<ul> <li>Pilot responses to subsequent control directions:</li> <li>i) affirmation or acknowledgement</li> <li>ii) negative</li> <li>iii) say again.</li> </ul>	<ul> <li>i) One distinct transmission</li> <li>ii) Two separate and distinct transmissions</li> <li>iii) Three separate and distinct transmissions.</li> </ul>
3)	Pilot indication of a further and pertinent unserviceability or an emergency	Five separate and distinct transmissions
4)	Pilot indication of abandoning the aircraft	A single continuous transmission as long as practicable. Where possible the transmitter key is to be locked on
5)	Controller requires pilot to indicate when an instruction has been completed	WHEN (condition or instruction is completed) MAKE A TWO SECOND TRANSMISSION
Ref	erence: ERSA	

Aerodro	me emergency landing	1 of 2)
Obtain	<ul> <li>Scale of service requested by pilot</li> <li>If no ARFFS available advise the pilot and requested what Services are required</li> <li>'Full Emergency' or 'Local Standby'.</li> <li>ETA</li> <li>POB</li> <li>Dangerous cargo</li> <li>Fuel on board</li> <li>Company and/or operator if known.</li> </ul>	Jest
When ATC on duty - notify	Destination tower for activation of the AEP	
When ATC not on duty - notify	<ul> <li>State or Territory Police for activation of the AEP where appropriate</li> <li>Aircraft operator, where possible</li> <li>ARFFS where established.</li> </ul>	
<ul> <li>IF ON APPROACH TO THE AERODROME and the pilot elects to continue past MDA or DH until visual on a ground based aid approach:         <ul> <li>emphasise that heading and/or altitude information beyond MDA or DH is advisory only and are used at the captain's discretion</li> <li>inform APEES when emergency aircraft is payt to land</li> </ul> </li> </ul>		

• inform ARFFS when emergency aircraft is next to land.

Aerodro	me emergency landing (2 of 2)
Consider	<ul> <li>Runways available (respect pilot's preference): <ul> <li>Dimensions</li> <li>Wind (update surface wind to IFE aircraft when able)</li> <li>Possibility of aircraft leaving runway</li> <li>Suitability of approach path with regard to nature of emergency</li> <li>Aerodrome lighting</li> <li>Possibility of arrester system engagement (military aircraft)</li> <li>Straight in approach requirement, particularly for fast military aircraft (vice initial and pitch).</li> </ul> </li> <li>Warning IFE aircraft in circuit area of high terrain areas (high cockpit workload)</li> <li>Holding IFE aircraft (only if suitable) to facilitate traffic management</li> <li>Requirement to divert other aircraft after emergency aircraft has landed</li> <li>Possibility of hot brakes or burst tire</li> <li>In case of fire (observed or reported) updating surface wind to aid in evacuation</li> <li>Notifying the pilot of the availability of the national ARFFS emergency frequency 131.0 (where applicable)</li> <li>Availability for operations after emergency aircraft has landed (runways blocked)</li> </ul>
Advise	JRCC Australia/JPR if there is doubt the aircraft will reach the destination safely

# Forced landing or ditching and Landing - not forced

Obtain (time permitting)	<ul> <li>POB</li> <li>Dangerous cargo</li> <li>Description/position of area in which landing is to be made</li> <li>In-flight conditions</li> <li>Survival gear carried.</li> </ul>
Advise pilot	<ul> <li>Activate Distress Beacon (if possible)</li> <li>Call on ground (nominate frequency or phone number).</li> </ul>
Record	Last observed/known position, altitude, track and speed
Notify	JRCC Australia/JPR and request Ditching Forecast (available from JRCC Australia). <b>Note:</b> Ditching reports are received via the AFTN.
Consider	<ul> <li>Obtaining and advising known weather conditions for area</li> <li>Providing information on possible landing sites</li> <li>Suitable aircraft for: <ul> <li>intercept and escort</li> <li>SAR assistance</li> <li>communications relay.</li> </ul> </li> </ul>
If contact achieved on the ground	<ul> <li>Advise JRCC Australia/JPR</li> <li>Ascertain: <ul> <li>injuries</li> <li>damage</li> <li>assistance required.</li> </ul> </li> <li>Arrange skeds.</li> </ul>

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Hypoxia	
Expect	<ul> <li>Pilot:</li> <li>speech slowing or slurring</li> <li>becoming increasingly relaxed or euphoric</li> <li>reactions slowing</li> <li>increasingly showing poor decision making processes.</li> </ul>
Advise	<ul> <li>Check oxygen system and connections</li> <li>Check pressurisation.</li> <li>When confirmed and checked - if no change or condition worsens, act immediately to descend the aircraft</li> </ul>
Descend the aircraft	<ul> <li>Example transmission OXYGEN, OXYGEN, OXYGEN, DESCEND TO ONE ZERO THOUSAND FEET</li> <li>REPEAT if necessary</li> <li>Try to keep aircraft in surveillance coverage.</li> </ul>
Record	Last observed/known position, altitude, track and speed
If comms lost	<ul> <li>Prepare for emergency or uncontrolled descent</li> <li>Plot position if identified</li> <li>Pass information to JRCC Australia/JPR</li> <li>Report when aircraft commences descent on fuel starvation if on automatic pilot or on handling pilot losing control.</li> </ul>
Obtain (from other source)	<ul><li>POB</li><li>Endurance</li><li>Dangerous cargo.</li></ul>
Consider	<ul> <li>Possibility of emergency/uncontrolled descent</li> <li>Possibility of continuous auto flight to fuel exhaustion</li> <li>Suitable aircraft for:         <ul> <li>intercept and escort</li> <li>SAR assistance</li> <li>communications relay</li> <li>visual check of pilot condition if communications lost</li> <li>advice of position and level of emergency aircraft.</li> </ul> </li> </ul>
May require IFER	Aircraft communications failure on Page 4-4 Aerodrome emergency landing on Page 5-1 Forced landing or ditching and Landing - not forced on Page 5-3

Hung ordnance/unsafe weapons		
Obtain	<ul> <li>POB</li> <li>Dangerous cargo</li> <li>Endurance.</li> </ul>	
Consider	<ul> <li>No traffic below</li> <li>Avoid built up areas</li> <li>Straight-in approach</li> <li>Holding IFE aircraft (only if suitable) to facilitate traffic management</li> <li>Requirement to divert other aircraft after emergency aircraft has landed.</li> </ul>	
Notify	JPR	

Hydrazine - F16		
Hydrazine is a highly toxic, carcinogenic liquid that provides temporary emergency power to an F-16 EPU		
Obtain	Confirmation of Emergency Power Unit (EPU) activation	
Advise	ARFFS (if not military ARFFS stress that hydrazine is a highly toxic/carcinogenic)	
Relay	Pilot messages to ground services verbatim	
Notify	<ul><li>Adjacent units</li><li>Squadron</li><li>JPR.</li></ul>	
Consider	<ul> <li>Aircraft limited to approx 10 minutes electrical and hydraulic/flight controls power</li> <li>Straight-in approach</li> <li>Requirement to divert other aircraft after emergency aircraft has landed.</li> </ul>	
May require IFER	Aerodrome emergency landing on Page 5-1 Forced landing or ditching and Landing - not forced on Page 5-3 Ejection on Page 6-3	

	Ejection
Obtain (time permitting)	<ul> <li>POB</li> <li>Heading and level as given by the pilot</li> <li>If premeditated, the location of the ejection.</li> </ul>
Advise	Other aircraft - transmit warnings on appropriate frequencies
Record	<ul> <li>Position at ejection</li> <li>Last observed/known position, altitude, track and speed of abandoned aircraft.</li> </ul>
Separate	<ul> <li>Abandoned aircraft with other traffic</li> <li>Aircrew in the air under canopy (descent rate approx 1200 fpm).</li> </ul>
Consider	<ul> <li>Request for vectors to a suitable ejection area</li> <li>Distress beacon transmissions from the ejection seat or module</li> <li>Deployment of chaff after initiation of some egress systems</li> <li>Possible constant transmission until the aircraft impacts</li> <li>Hull will automatically squawk 7700.</li> </ul>
Notify	JRCC Australia/JPR and request Ditching Forecast (available from JRCC Australia)

# Pilot incapacitation - Emergency Autoland System (EAL) activation

(1 of 2)

Activation	<ul> <li>EAL activates in one of three ways:</li> <li>Erratic flying is detected and, after checking for pilot responsiveness, no input is received</li> <li>Following an emergency descent with no pilot responsiveness</li> <li>Manually.</li> </ul>
Automated aircraft actions and broadcasts	<ul> <li>Squawks 7700</li> <li>On the last pilot selected frequency and Guard (121.5):         <ul> <li>'MAYDAY, MAYDAY, MAYDAY, (<i>callsign</i>), EMERGENCY AUTOLAND ACTIVATED. STANDBY FOR MORE INFORMATION'</li> </ul> </li> <li>After 25 seconds, intentions will be broadcast:         <ul> <li>e.g. '(<i>callsign</i>), PILOT INCAPACITATION, 14 MILES SOUTHWEST OF YBSU, LANDING YBBN AERODROME. EMERGENCY AUTOLAND IN 13 MINUTES ON RUNWAY 01LEFT'</li> </ul> </li> <li>Subsequent broadcasts on Guard (121.5):         <ul> <li>Changes in destination (due weather or other factors)</li> <li>After landing, every 90 seconds on CTAF and every 5 minutes on Guard:             <ul> <li>'DISABLED AIRCRAFT ON RUNWAY (<i>number</i>) (<i>destination</i>) AIRPORT'</li> </ul> </li> </ul></li></ul>
Advise	<ul> <li>Declare DETRESFA</li> <li>Other aircraft on frequency of the EAL activation and intended destination</li> <li>Adjacent/concerned units</li> <li>Supervisor.</li> </ul>
Record	Last observed/known position, altitude, track and speed
EAL system procedures	<ul> <li>Aircraft will manoeuvre to emergency aerodrome</li> <li>Aircraft descends in the hold at the final approach fix for landing at emergency aerodrome</li> <li>Broadcasts on appropriate ATC frequency or Common Traffic Advisory Frequency (CTAF) within 12 miles and passing 10,000 feet AGL of emergency airport</li> </ul>
Obtain (from other sources)	<ul><li>POB</li><li>Endurance</li><li>Dangerous cargo.</li></ul>

### **Pilot incapacitation - Emergency Autoland System (EAL) activation** (2 of 2)

Other considerations	<ul> <li>May be manually activated by passenger, pilot or automatically by EAL algorithms;</li> <li>Verbal announcements on upcoming manoeuvers automatically made to passengers</li> <li>Video map displays route of flight and ensuing manoeuvres</li> <li>Push-To-Talk button available for passenger/ATC communication.</li> </ul>

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Uncertain of position (1 of 2)		
Obtain	<ul> <li>Last known positive fix</li> <li>Headings and times flown since that fix</li> <li>True airspeeds and levels flown since that fix</li> <li>Remaining total fuel endurance</li> <li>Serviceable and useable navigation aids</li> <li>In-flight conditions</li> <li>For VFR - flight conditions affecting ability to proceed in any direction.</li> </ul>	
Advise	<ul> <li>Pilot to update information above when it changes</li> <li>VFR aircraft to remain in VMC when following ATS guidance</li> <li>LSALT and/or highest terrain where pilot may not stay visual.</li> </ul>	
Determine position - not in surveillance	<ul> <li>Take actions to enter surveillance coverage if practical</li> <li>Ascertain pilot's ability to use Navaids on aircraft and provide frequencies of appropriate Navaids - obtain present heading and relative bearing of aid</li> <li>Obtain pilot report of: <ul> <li>topographical features (e.g. towns, lakes, river orientation, roads, railways)</li> <li>meteorological phenomena (e.g. thunderstorms).</li> </ul> </li> <li>Advise pilot to track to, then along a geographical feature, noting compass headings and any new features encountered, e.g. coastline, road/railway crossing, river/road</li> <li>Advise pilot to circle a prominent feature or town to facilitate identification by ground observers (e.g. local police)</li> <li>Ascertain if pilot has access to a Distress Beacon (do not activate without prior consultation with JRCC Australia)</li> <li>If necessary, request JRCC Australia/JPR provide assistance</li> <li>If available use direction finding equipment</li> <li>Activate/deactivate aerodrome beacons, aerodrome or other lights and aircraft as aerial lighthouse (orbiting with landing lights on) and subsequent escort</li> <li>Use of VHF/UHF range intelligence (VHF range NM = 1.2 x √ height in feet; UHF range NM = √ height in feet).</li> </ul>	

Un	certain of position	
Determine position - surveillance	<ul> <li>SQUAWK (or TRANSMIT ADS-B) IDENT or SQUAWK 7700 or</li> <li>Use heading/turn procedures for non-transponder aircraft</li> <li>Provide position fix or vector as required</li> <li>Record last known position, track, speed and altitude if surveillance lost.</li> </ul>	
When position determined	<ul> <li>Provide navigation assistance to:         <ul> <li>next prominent feature on track</li> <li>return to earlier position/departure point</li> <li>land at nearest suitable aerodrome.</li> </ul> </li> <li>Provide heading/distance information using:         <ul> <li>vectors and navaid tracking assistance</li> <li>other pilot or company advice.</li> </ul> </li> <li>Provide aerodrome details if required - obtain information from ERSA and NOTAM or JRCC Australia</li> <li>Insufficient fuel/light/VMC to proceed to nearest suitable aerodrome (suggest precautionary landing in daylight with power).</li> </ul>	
May require IFER	Fuel shortage on Page 3-5Forced landing or ditching and Landing - not forced on Page 5-3Inadvertent VFR on top of cloud on Page 7-4Day VFR at night on Page 7-6	
Notify	JRCC Australia/JPR if SAR action is likely	

### **VFR in IMC**

# Instil confidence, and keep instructions simple and to a minimum, as the pilot may be emotionally distressed or inexperienced

	mexperienced
Advise	<ul> <li>Keep wings level</li> <li>Keep speed constant</li> <li>Trust instruments</li> <li>LSALT</li> <li>Turn on pitot heat (and anti-icing) if available.</li> </ul>
Obtain	<ul> <li>Time in IMC</li> <li>Type of conditions encountered</li> <li>Pilot instrument flight experience</li> <li>Availability of autopilot and pilot competence in its use</li> <li>POB</li> <li>Last observed/known position, altitude, track and speed</li> <li>Total remaining endurance.</li> </ul>
Instruct pilot	<ul> <li>No abrupt manoeuvres</li> <li>Shallow climbs/descents/turns</li> <li>Turn first, establish straight and level then climb/ descend</li> <li>Suggest use of autopilot if equipped and competent.</li> </ul>
Consider options	<ul> <li>Reciprocal track (return to last VMC area)</li> <li>Climb above tops and proceed to known breaks in cloud</li> <li>Descent below base (consider LSALT)</li> <li>Other track to VMC areas or clear landing ground.</li> </ul>
Consider	<ul> <li>Retaining experienced pilot for assistance if available</li> <li>Clearing frequency</li> <li>Pilot preferences</li> <li>Obtaining reports of areas of known VMC from: <ul> <li>other aircraft</li> <li>BoM</li> <li>ground observers.</li> </ul> </li> <li>Match VMC reports with low terrain or sea.</li> </ul>
Established in VMC	<ul> <li>Provide further assistance as required for:</li> <li>navigation to destination or alternate</li> <li>weather guidance.</li> <li>Advise next ATS unit handling the aircraft.</li> </ul>
May require IFER	Uncertain of position on Page 7-1 Inadvertent VFR on top of cloud on Page 7-4 Forced landing or ditching and Landing - not forced on Page 5-3
Notify	JRCC Australia/JPR if SAR is likely

(1 of 2)

#### Inadvertent VFR on top of cloud

## Instil confidence, and keep instructions simple and to a minimum, as the pilot may be emotionally distressed or inexperienced

Obtain	<ul> <li>Last observed/known position, altitude, track and speed</li> <li>Last visual contact with the ground</li> <li>Extent of cloud cover</li> <li>Pilot experience</li> <li>Method of navigation</li> <li>Total remaining endurance.</li> </ul>	
Ascertain position	<ul> <li>By surveillance or pilot report</li> <li>If unable, go to <u>Uncertain of position on Page 7-1</u></li> </ul>	
Consider	<ul> <li>Retaining experienced pilot for assistance if available</li> <li>Clearing frequency</li> <li>Pilot preferences</li> <li>Obtaining reports of areas of known VMC from: <ul> <li>other aircraft</li> <li>BoM</li> <li>ground observers.</li> </ul> </li> <li>Match VMC reports with low terrain or sea</li> <li>Use of other aircraft (prefer IFR) for: <ul> <li>diversion to area and escort</li> <li>communications relay.</li> </ul> </li> </ul>	
Establish ground (or water) sighting	Assist with selection of and navigation to a clear or partially clear area	
Sighting achieved	<ul> <li>Provide further assistance as required for:</li> <li>navigation to destination or alternate</li> <li>weather guidance.</li> <li>Advise next ATS unit handling the aircraft.</li> </ul>	

Inadvert	ent VFR on top of cloud	
	nce, and keep instructions simple and to a the pilot may be emotionally distressed or inexperienced	
No sighting	<ul> <li>If descent through cloud is unavoidable:</li> <li>establish area of thinnest cloud for minimum IMC time</li> <li>keep pilot informed of LSALT</li> <li>obtain IFR pilot assistance for briefing prior to cloud entry.</li> <li>Suggest to pilot: <ul> <li>use autopilot if equipped and competent</li> <li>carry out practice descents in the clear on top of cloud</li> <li>maintain a steady heading</li> <li>keep wings level</li> <li>keep speed constant</li> <li>trust instruments</li> <li>trim aircraft to establish a shallow and constant rate of descent</li> <li>turn on pitot heat (and anti-icing) if available prior to entering cloud.</li> </ul> </li> </ul>	
May require IFER	Uncertain of position on Page 7-1 VFR in IMC on Page 7-3 Fuel shortage on Page 3-5 Forced landing or ditching and Landing - not forced on Page 5-3	
Notify	JRCC Australia/JPR if SAR is likely	

D	ay VFR at night	
Instil confidence, and keep instructions simple and to a minimum, as the pilot may be emotionally distressed or inexperienced		
Obtain	<ul> <li>Pilot's ability to perceive the horizon</li> <li>Pilot experience for instrument/night flying</li> <li>Availability of autopilot and pilot competence in its use</li> <li>POB</li> <li>Last observed/known position, altitude, track and speed</li> <li>Total remaining endurance.</li> </ul>	
Advise	<ul> <li>Keep wings level</li> <li>Keep speed constant</li> <li>Maintain a steady heading</li> <li>Trust instruments</li> <li>LSALT.</li> </ul>	
Instruct pilot	<ul> <li>No abrupt manoeuvres</li> <li>Shallow climbs/descents/turns</li> <li>Turn first, establish straight and level, then climb/descend</li> <li>Suggest use of autopilot if equipped and competent.</li> </ul>	
Ascertain position	<ul> <li>By surveillance or pilot report</li> <li>If unable, go to <u>Uncertain of position on Page 7-1</u></li> </ul>	
Options	<ul><li>Proceed to planned destination or alternate</li><li>Provide details of suitable aerodromes.</li></ul>	
Consider	<ul> <li>Provision of navigation assistance:         <ul> <li>Position fix or vectoring as required</li> <li>Navaid tracking assistance</li> <li>LSALT</li> <li>Visual features (lights/beacons/towns/topography)</li> <li>Activate lighting (permanent/PAL/portable/ emergency).</li> </ul> </li> <li>Retaining experienced pilot for assistance if available</li> <li>Clearing frequency</li> <li>Pilot preferences</li> <li>Obtaining reports of areas of known VMC from:         <ul> <li>other aircraft</li> <li>BoM</li> <li>ground observers.</li> </ul> </li> <li>Match VMC reports with low terrain or sea</li> <li>Use of other aircraft (prefer IFR) for:             <ul> <li>diversion to area and escort</li> <li>communications relay.</li> </ul> </li> </ul>	

C	Day VFR at night (2 of 2)
Instil confidence, and keep instructions simple and to a minimum, as the pilot may be emotionally distressed or inexperienced	
	Uncertain of position on Page 7-1
	VFR in IMC on Page 7-3
May require IFER	Fuel shortage on Page 3-5
	Aerodrome emergency landing on Page 5-1
	Forced landing or ditching and Landing - not forced on Page 5-3
Notify	JRCC Australia/JPR if SAR is likely

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Unauthorised RPAS		
within controlled airspace		

(1 of 2)

Hazard alert	<ul> <li>Directed transmissions to affected crewed aircraft, including ATIS</li> <li>Broadcast on frequencies likely to be used by affected crewed aircraft.</li> </ul>
Notify	<ul> <li>If endangering aviation safety <ul> <li>State Police; or</li> <li>AFP where established at the aerodrome and the RPAS is over or in the immediate vicinity of the aerodrome</li> </ul> </li> <li>Make a general broadcast for any RPAS in the affected area to land immediately</li> <li>Aerodrome operator or, at Defence or joint user aerodromes, Air Base Command Post (or equivalent)</li> <li>ATMD/Military Supervisor</li> <li>If an immediate concern for aviation safety, the NOMC (advise the NOMC if the police have been notified).</li> </ul>
Obtain	<ul> <li>Time</li> <li>Location</li> <li>Number of RPAS involved</li> <li>Altitude and speed of affected crewed aircraft</li> <li>Proximity to affected crewed aircraft</li> <li>Reporter's details.</li> </ul>
Assess	<ul><li>Is the RPAS</li><li>in the approach/departure path</li><li>In a critical area of SID/STAR or arrival/departure routes</li></ul>
Consider	<ul> <li>Alternate tracking including amended clearances (SID, STAR, approach)</li> <li>Pilot requests for minor lateral deviations, changes to profile, speed reductions, changes to rate of climb/ descent etc.</li> <li>Using alternate RWY</li> <li>Suspension of required modes (e.g. LTOP)</li> <li>Holding or diverting crewed aircraft</li> <li>Start clearances for departing aircraft</li> <li>Facilitating coordination and communication between crewed aircraft and operating agencies</li> <li>Multiple RPAS may be a deliberate disruption attempt</li> <li>Additional broadcasts notifying of escalation events.</li> </ul>

# Unauthorised RPAS within controlled airspace

(2 of 2)

	•	Operations may resume (at pilot discretion) if there is reasonable assurance the unauthorised RPAS is no longer a threat to crewed aircraft.
Resolution	•	<ul> <li>Unless certain that the RPAS is no longer a threat:</li> <li>continue managing risk to crewed aircraft for at least 30 minutes from the initial notification; and</li> <li>broadcast information on the unauthorised RPAS for at least one hour.</li> </ul>