

GEN 3.6 SEARCH AND RESCUE

1 RESPONSIBLE AUTHORITY

- 1.1 Search and Rescue in Brunei Darussalam is provided by the Department of Civil Aviation, Ministry of Transport and Infocommunications, in collaboration with other Government Ministries, departments and other local agencies which have the responsibility for making the necessary facilities available. The postal and telegraphic addresses of the Department of Civil Aviation are given on page GEN 1.1- 1.
- 1.2 The service is provided in accordance with the provisions contained in ICAO Annex 12 – Search and Rescue.

2 AREA OF RESPONSIBILITY

- 2.1 The National Rescue Coordination Centre is responsible for SAR operations within Brunei TMA and the Ampa Triangle.

3 TYPES OF SERVICES

- 3.1 The following type of search and rescue services are provided utilizing the present available national resources, namely:
- a) Land and /Aeronautical Search and Rescue services within the land territory of Brunei Darussalam.
 - b) Combined Aeronautical / Maritime Search and Rescue services within its inland waters, over its territorial seas and if required could be extended to the high seas adjacent to the territorial waters subject to the operating limitations of Brunei Darussalam surface vessels and aircraft.
 - c) On the basis of bilateral agreements with Malaysia, aeronautical search and rescue service is provided within the lateral boundaries of the Brunei Controlled Airspace and the AMPA triangle.

4 SAR AGREEMENTS

- 4.1 No formal facilitation of Entry Agreements exist between Brunei Darussalam and neighboring States, however, facilitation of entry for SAR purposes shall be coordinated and request for entry shall be transmitted via telex or AFTN links when the need arises.

5 CONDITIONS OF AVAILABILITY

- 5.1 Brunei Darussalam has no dedicated search and rescue aircraft and vessels. Search and Rescue facilities are available on opportunity basis.
- 5.2 The State of readiness of individual SAR units and alerting procedures are given on the SAR Facilities Table 3.6.3 - Search and Rescue Units.

6 PROCEDURES AND SIGNALS USED

- 6.1 *Procedures and signals used by aircraft*
- Detail of the Alerting Procedures is described in Annex 11.
- 6.1.1 Procedures for Pilot-in-Command observing an accident or intercepting a distress call and/or message are outlined in Annex 12, Chapter 5.
- 6.1.2 To avoid interference with SAR operations and to avoid unnecessary collision hazard, pilots not participating in the SAR operations are strongly advised not to fly into or near an area where SAR operations are known to be in progress.

6.1.3 Pilots who consider it necessary to fly in a known area of SAR operations should:

- a) File a flight plan giving times of entering and leaving the area and the height to be flown, ensuring that the National RCC is included among the addresses.
- b) Monitor the VHF International Distress (121.5Mhz) and scene of search (123.1Mhz) when in the vicinity, but avoid transmitting on these frequencies.
- c) Under certain circumstances, a temporary flight restriction zone or SAR operations warning area may be established. This will normally be established by NOTAM.

6.2 COMMUNICATIONS

6.2.1 Transmission and reception of distress and urgency messages within the Brunei Search and Rescue Region are handled in accordance with Annex 10 - Vol II, Chapter 5, 5.3.

6.2.2 For communications during SAR operations, the codes and abbreviations published in ICAO Codes and Abbreviations (DOC8400) are used.

6.2.3 The International Distress Frequencies are monitored as follows:

- 2182Khz by Muara Port Radio Station - 24hours
- Marine CH 16 by Muara port Radio Station - 24hours
- 121.5Mhz by Brunei Air Traffic Control Centre - 24hours
- 243.0Mhz by Brunei Air traffic Control Centre

6.2.4 The International Scene of Search Frequencies is to be used by coordinated rescue units as applicable when requested by the National Rescue Coordination Centre.

- 5680/3023.Khz - HF
- 6753Khz - HF
- 123.1Mhz - VHF (air)
- 156.8Mhz - VHF (Marine)
- 282.8Mhz - UHF

6.2.5 Specific call sign are allocated to units involved in SAR operations coordinated by National RCC. The call signs are as follows:

- | | | |
|----|----------------------|--|
| a) | NSARCC | - Brunei Rescue |
| b) | Helicopters | - Rescue Helicopter " plus registration" |
| c) | Fixed wing | - " Rescue " plus registration |
| d) | Marine Craft | - Rescue Boat or Rescue Vessel plus name |
| e) | Land Unit | - " Fireguard" plus number |
| f) | Collective Call sign | - " Rescue Combine " |

6.3 SEARCH AND RESCUE SIGNALS

The Search and Rescue Signals to be used are those described in ICAO Annex 12, Chapter 5, para 5.10 . These are shown on GEN 3.6-5

SAR STANDBY AND ALERTING PROCEDURE

The SAR forces are to remain at varying standby for alerts - These standbys together with contact telephone numbers are detailed below;

Resource	Standby	Alerting procedures	Remarks
A	B	C	D
National RCC	24 Hours Standby	Initial request for all SAR Actions are to be passed to: - BSB 673-2-332600 BSB 673-2-330142 Ext 1999 BSB 673-2-334763/64 BSB 673-2-330454 or 673-2-330896	Base: BIA
RBAF Helicopter S70A BO 105	S70A on 24 Hours standby By day- - all helicopters at varying degrees of readiness depending on serviceabilities and location. -Minimum 30 minutes notice to move (during working days) -Minimum 60 minutes notice to move (during weekend and public holidays) -By Night- One medium lift Helicopter at 120 minutes notice to move.	To be alerted through Joint Force Headquarter (JFHQ) Tel : 673-2-386605 or SO1 J3 Air (SAR) Tel : 673-8738542 or SO2 J3 Air (SAR) Tel : 673-8748145	Assets: 1 x S70A (for Search and Rescue) 1 x BO105 (for search and Locate only)
RBAF - RBAirF Jungle Rescue Team (Land Search Only)	24/7 Standby – 120 minutes notice to move.	-do-	Assets : 1 x Jungle Rescue Team
RBAF Fixed Wing CN235 PC7 MK 11	By day – These assets are at varying degrees of readiness depending on serviceabilities. -Minimum 60 minutes notice to move (during working days) - Minimum 120 minutes notice to move (during weekend and public holidays)	-do -	Daylight only. CN235 (Flight endurance is 7 hours and maximum range is 80 nm radius) PC7 Mk II (Flight endurance is 2.5hrs & Maximum range is 80 nm radius)
Royal Brunei Police Force : 2 Interceptor Boats 2 Patrol Boats 1 RHIB	24 hours standby at 30 minutes notice	Hotline : 993 or Duty Officer State Control Centre : 673-2-422444/ 673-2-422888 or Duty Officer Marine Police : 7181993/673-2-772391 or Operation Room Marine Police. 673-2-774000	BASE: Marine Police Headquarter, Muara BT1128, Bandar Seri Begawan
RBN Waspada Class Perwira Class	1 patrol boat 24 hours standby at 30 minutes notice	-do-.	If unable as per 'C' or dictate, contact SO2 G2/G3 RBN through Tel: 673-2-770794

Resources	Standby	Alerting procedures	Remarks
A	B	C	D
MARINE DEPT Sumpit-Sumpit Tanjong Puan Seri Alan Seri Bandar Seri Kuala Tanjong Keramat Bolkiah Muara Harbour Radio Station	At 24 Hours alter alert	Day : Tel: 673-2-771347 Night : Muara Harbour Station: 673-2-770293	Ocean going tug fire fighter Bvoy maintenance vessel with 6 tons crane Pilot launch Dredge training vessel monitoring 2182Khz, Ch 16
DEPARTMENT OF CIVIL AVIATION ATC Control	24 Hours	Duty ATS Supervisor 673-2-330454 or 673-2-330896	24 Hours
RSAF BIA 5 x UHIHS	24 Hours 1st helicopter available after 30mins being alerted.	Contact Officer I/c Day: 673-2-331457 Night: 673-2-331272	No Wincing at night.
BSP MARINE	Approx 21+ vessels ranging	Panaga Exchange 673-3-372999 (Brunei Shell emergency Service)	Base: Kuala Belait and various oil rigs.
COSPAS-SARSAT (Point of Contact)	24 Hours	Initial alert to be received through: AFTN : WBSBYCYX Tel : 6732332600 Fax : 6732344191 Email : NSARCC@dca.gov.bn	Base : BIA

SEARCH AND RESCUE SIGNALS

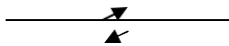
Ground Air Visual Signal Code For Use By Survivors

NO	Message	Code symbol
1	Require assistance	V
2	Require medical assistance	X
3	No or Negative	N

NO	Message	Code symbol
4	Yes or affirmative	Y
5	Proceeding in this direction	↑

Ground / Air Visual Signal Code For Use By Rescue Units

No	Message	Code symbol
1	Operation completed	LLL
2	We have found all personnel	<u>LL</u>
3	We have found only some personnel	++
4	We are not able to continue. Returning to base	XX

No	Message	Code symbol
5	Have divided in two groups. Each proceeding in direction indicated	
6	Information received that aircraft is in this direction	
7	Nothing found. Will continue to search	NN

Instruction for use:

1. Use strips of fabric, parachute material, pieces of wood, stones, or other available material.
2. Make signals not less than 8ft (2.5 m).
3. Lay out symbols exactly as depicted to avoid confusion.
4. Provide maximum colour contrast between signals and background.
5. Endeavour to attract attention by other means such as radio, flares, smoke or reflected light.

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