



**CIVIL AVIATION REGULATIONS
AIR NAVIGATION SERVICES**

Part 12

Governing

SEARCH AND RESCUE

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

Old MIA Road, Pasay City 1301

Metro Manila

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Republic of the Philippines
CIVIL AVIATION REGULATIONS
AIR NAVIGATION SERVICES
(CAR-ANS)


Part 12

Governing

SEARCH AND RESCUE

EFFECTIVITY

Part 12 of the Civil Aviation Regulations-Air Navigation Services is issued under the authority of Republic Act No. 9497 and shall take effect upon approval by the Board of Directors of the Civil Aviation Authority of the Philippines.



CAPT. JIM C. SYDIONGCO
Acting Director General
Civil Aviation Authority of the Philippines

21 OCT 2016
DATE

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FOREWORD

This Civil Aviation Regulations-Air Navigation Services Part 12 (CAR-ANS Part 12) was formulated and issued by the Civil Aviation Authority of the Philippines (CAAP), prescribing guidelines and procedures in the provision of Search and Rescue in compliance with Article 25 (Aircraft in Distress) of the Convention on International Civil Aviation of the International Civil Aviation Organization (ICAO).

These regulations primarily pertains to aeronautical search and rescue service based on the Standards and Recommended Practices (SARPS) contained in Annex 12 to the Convention of International Civil Aviation adopted by the Council on May 25, 1950, and came into force March 1, 1951.

CAR-ANS Part 12, Search and Rescue, provides direction for the establishment, organization, maintenance, provision, operation, and the coordination of Aeronautical SAR service in co-operation with agencies responsible for Maritime SAR and other relevant emergency organizations in order to attain the level of SAR service required by civil aviation.

CAR-ANS Part 12 is applicable to the provision of search and rescue service in the Philippine SRR, over the high seas of undetermined sovereignty, and with adjacent SRR of neighboring States.

The search and rescue service established by the Civil Aviation Authority of the Philippines forms part of the State's commitment to the global SAR system.

The procedures contained herein are issued by the authority of the Director General and shall be complied with by all concerned.

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RECORD OF AMENDMENTS AND CORRIGENDA

| Amendments | | | |
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| <i>Number</i> | <i>Date applicable</i> | <i>Subject(s)</i> | <i>Entered by</i> |
| 1 | 11 June 2021 | Incorporated Amendment 1 to CAR-ANS Part 12 amending provisions regarding Flight information coordinates; inclusion of Primary Search and Rescue Unit and Secondary Rescue Unit in the definitions; and changes in Secondary Rescue Units. | Captain Jim C. Sydiونغco |
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| Corrigenda | | | |
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12.1 DEFINITIONS

When the following terms are used in this CAR, they have the following meanings:

Alerting Post – Any facility intended to serve as an intermediary between a person reporting an emergency and a rescue coordination center or rescue sub-center.

Alert Phase - A situation wherein apprehension exists as to the safety of an aircraft and its occupants.

AMVER – Automated Mutual-assistance Vessel Rescue system; an international maritime mutual assistant program which provides vital aid and coordination of SAR efforts in offshore areas of the world; operated by the United States Coast Guard where merchant vessel data are compiled, printed and distributed to selected addresses having SAR responsibility.

CAAP – Civil Aviation Authority of the Philippines.

COSPAS-ARSAT System - A satellite system designed to detect distress beacons transmitting on frequencies 121.5 MHz and 406 MHz.

Distress Phase - A situation wherein there is a reasonable certainty that an aircraft and its occupants are threatened by grave and imminent danger and require immediate assistance.

Ditching - The forced landing of an aircraft on water.

Emergency Locator Transmitter (ELT) - Aeronautical radio distress beacons for alerting and transmitting [ELT] homing signals.

Emergency Phase - A generic term meaning, as the case may be uncertainty phase, alert phase or distress phase.

International Mobile Satellite Organization (Inmarsat) - A system of geostationary satellites for world-wide mobile communications services which support the Global Maritime Distress and Safety System and other emergency communications systems.

Joint Rescue Coordination Center (JRCC) - A rescue coordination center responsible for both aeronautical and maritime search and rescue operations.

Local User Terminal (LUT) - An Earth receiving station that receives beacon signal relayed by Cospas-Sarsat satellites, processes them to determine the location of the beacon, and forwards the signal to relevant Mission Control Center (MCC).

Mission Control Center (MCC) - Part of the Cospas-Sarsat System that accepts alert messages from local user terminals and other mission control centers for distribution to appropriate rescue coordination centers or search and rescue points of contact (SPOC).

On-Scene Coordinator (OSC) - A person designated to coordinate search and rescue operations within a specified area.

Operator - A person, organization, or enterprise engaged in or offering to engage in an aircraft operation.

PARCC – Philippine Aeronautical Rescue Coordination Center.

Pilot-in-Command - The pilot designated by the operator, or in the case of general aviation, the owner, as being in command and charged with the safe conduct of a flight.

Primary Search and Rescue Unit – recognized groups with the capability to conduct on-scene operation to retrieve persons in distress, provide initial medical or other needs and deliver them to a place of safety.

Rescue - An operation to retrieve persons in distress, provide for their initial medical or other needs, and deliver them to a place of safety.

Rescue Coordination Center (RCC) - A unit responsible for promoting the efficient organization of search and rescue services and for coordinating the conduct of search and rescue operations within a search and rescue region.

Rescue Sub-center (RSC) - A unit subordinate to a rescue coordination center, established to complement the latter within a specified area within a search and rescue region.

SAR – Search and Rescue.

Search - An operation normally coordinated by a rescue coordination center or rescue sub-center using available personnel and facilities to locate persons in distress.

Search and Rescue Aircraft - An aircraft provided with specialized equipment suitable for the efficient conduct of search and rescue missions.

Search and Rescue Coordinator (SC) - One or more persons or agencies within an Administration with overall responsibility of establishing staffing, equipping, and managing the SAR system, including providing legal and funding support, establishing RCCs and RSCs, providing or arranging for SAR facilities, coordinating SAR training and developing SAR policies.

Search and Rescue Facility - Any mobile resource, including designated search and rescue units, used to conduct search and rescue operations.

Search and Rescue Mission Coordinator (SMC) - The official temporarily assigned to coordinate response to an actual or apparent distress situation.

Search and Rescue Plan - A general term used to describe documents which exist at all levels of the national and international search and rescue structure to describe the goal, arrangements and procedures supporting the provision of search and rescue services.

Search and Rescue Point of Contact (SPOC) - Rescue coordination centers and other established and recognized national points of contact, which can accept responsibility to receive Cospas-Sarsat alert data to enable the rescue of persons in distress.

Search and Rescue Service - The performance of distress monitoring, communication, coordination, search and rescue, and initial medical assistance or medical evacuation, through the use of public and private resources including cooperating aircraft, vessels and installations.

Search and Rescue Region (SRR) - An area of defined dimensions, associated with a rescue coordination center, within which search and rescue services are provided.

Search and Rescue Sub-region (SRS) - A specified area within a search and rescue region associated with a rescue sub-center.

Search and Rescue Unit - A mobile resource composed of trained personnel and provided with equipment suitable for the expeditious conduct of search and rescue operations.

Secondary Rescue Unit – recognized off-scene groups with the ability to continuously assist in providing medical or other needs to retrieved persons in distress, and deliver them to a better place of safety.

State of Registry - The State on whose register the aircraft is entered.

Uncertainty phase - A situation wherein uncertainty exists as to the safety of an aircraft and its occupants.

Vessel - A marine craft.

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12.2 ORGANIZATION

12.2.1 Search and Rescue

12.2.1.1 The Civil Aviation Authority of the Philippines is responsible for the establishment, organization, and prompt provision of search and rescue service in coordination with other agencies to ensure that assistance is rendered to persons in distress. Such services shall be provided on a 24- hour basis.

12.2.1.1.1 Search and Rescue service shall be provided within the Philippine SRR including over those portions of the high seas or areas of undetermined sovereignty for which responsibility of providing Air Traffic Services has been delegated to the Philippines.

12.2.1.1.2 Search and rescue service shall include organized available resources, communication facilities, and a workforce skilled in coordination and operational functions.

12.2.1.1.3 The search and rescue service shall establish programs to ensure the continued improvement of the service, including the aspects of SAR planning, mutually effective domestic and international SAR cooperation agreements and, continuous personnel training.

12.2.1.2 Assistance to aircraft in distress and to survivors of aircraft accidents shall be provided regardless of the nationality or status of such persons or the circumstances in which such persons are found.

12.2.1.3 Search and rescue service shall use search and rescue units and other available facilities to assist any aircraft or its occupants that are or appear to be in a state of emergency.

12.2.1.4 Rapid and close coordination between the aeronautical and maritime rescue coordination centers shall be maintained to ensure prompt SAR response to emergency calls.

12.2.1.5 Joint rescue coordination center (JRCC) may be established to coordinate aeronautical and maritime search and rescue operations in a unified facility, where practical.

12.2.2 Search and Rescue Regions

12.2.2.1 The Manila Flight Information Region (FIR) shall be designated as the Philippine Search and Rescue Region (SRR). The Philippine SRR shall not overlap and be contiguous with the SRR's of adjacent States.

12.2.2.2 The Philippine Search and Rescue Region (SRR) shall have the geographical coordinates which coincide with the Manila Flight Information Region (FIR) as published in the Aeronautical Information Publication (AIP) under ENR 2.1-1.

12.2.3 Rescue Coordination Center and Rescue Sub-centers

- 12.2.3.1 The Civil Aviation Authority of the Philippines shall establish the Philippine Aeronautical Rescue Coordination Center (PARCC) which shall have supervision and control of aeronautical search and rescue service established and provided in the Philippine SRR; and shall determine from time to time additional areas within the jurisdiction of the Republic of the Philippines, where search and rescue services will be provided.
- 12.2.3.2 PARCC shall be located close to associated facilities providing Air Traffic Services to keep additional communication facilities to a minimum, achieved rapid and efficient emergency alert notification and, effective coordination of SAR operations.
- 12.2.3.3 PARCC shall be staffed 24 hours a day by trained personnel proficient in the use of the language used for radiotelephony communications.
- 12.2.3.4 PARCC personnel involved in the conduct of radiotelephony communications shall be proficient in the use of the English language.
- 12.2.3.5 Where public telecommunications facilities do not permit persons observing an aircraft on emergency to notify the rescue coordination center concerned directly and promptly, such persons shall notify the nearest police station.
- 12.2.3.6 Rescue sub-centers (RSCs) may be established when necessary for the efficient execution of SAR operations. RSC's shall be in close cooperation and coordination with the PARCC facility located at the main CAAP offices.
- 12.2.3.7 CAAP-PARCC shall be in coordination with the following recognized rescue units who will provide the necessary SAR assets and act appropriately as:
- a) Primary Search and Rescue Units (SRUs):
 - 1) 505th SRG, Philippine Air Force
 - 2) PCG Air Group, Philippine Coast Guard
 - 3) Naval Air Group, Philippine Fleet-Philippine Navy
 - 4) PNP Air Group, Philippine National Police
 - b) Secondary Rescue Units:
 - 1) Department of Interior and Local Government, DILG and Local Government Units (LGUs)
 - 2) Philippine Red Cross, PRC
 - 3) Department of Social Welfare and Development, DSWD
 - 4) National Disaster Risk Reduction and Management Council, NDRRMC
 - c) Non-Government Organizations:

- 1) Airlines and aviation organizations
- 2) Shipping and maritime agencies
- 3) Radio stations and amateur radio groups and organizations
- 4) Private hospitals

d) Other emergency relief organizations with SAR capable resources as may be called upon by PARCC.

- 1) In sparsely populated areas where communication systems are not developed, alerting posts shall be designated to relay by the most reliable and expeditious means, information concerning aircraft in distress.
- 2) PARCC shall endeavor to arrange for local authorities, vessels, and aircraft to cooperate fully in SAR operations, and take appropriate actions for the well-being of survivors of aircraft accidents.
- 3) The location, organization, and function of PARCC and its associated rescue sub-centers shall be published in the Aeronautical Information Publication of the Philippines (AIP) for information and proper dissemination.

12.2.4

Search and Rescue Communications

12.2.4.1

PARCC shall have means of rapid and reliable two-way communication with:

- a) associated air traffic services units;
- b) associated rescue sub-centers, where provided;
- c) where appropriate, coastal radio stations capable of alerting and communicating with surface vessels in the region;
- d) the headquarters of search and rescue units in the region;
- e) maritime RCCs, aeronautical RCCs, and joint rescue coordination centers in adjacent regions;
- f) Philippine Atmospheric Geophysical and Astronomical Services Administration, PAGASA;
- g) search and rescue units, SRUs;
- h) alerting posts; and
- i) the COSPAS-ARSAT Mission Control Centre (MCC) and Local User Terminals (LUTs) servicing the region.

12.2.4.2

Each rescue sub-center, where provided, shall have means of rapid and reliable two-way communication with:

- a) the main RCC base facility;
- b) adjacent rescue sub-centers;
- c) a meteorological office or meteorological watch office;
- d) search and rescue units; and

e) alerting posts.

12.2.5 Search and Rescue Units

12.2.5.1 Agencies that are suitably located and equipped for search and rescue operations shall be designated for search and rescue functions.

12.2.5.2 Other agencies that do not qualify as search and rescue units but are nevertheless able to participate in search and rescue operations shall form part of the search and rescue plan of operation.

12.2.6 Search and Rescue Equipment

12.2.6.1 Search and rescue units shall be provided with equipment for locating promptly the distress position, and for providing adequate assistance to survivors of an aircraft accident.

12.2.6.2 Each search and rescue unit shall have means of rapid and reliable two-way communication with other search and rescue units and facilities engaged in the same operation.

12.2.6.3 Each search and rescue aircraft shall be equipped to communicate on the distress and on-scene frequencies, and on such other frequencies as may be arranged with responding SAR units.

12.2.6.4 Each search and rescue aircraft shall be equipped with a device for homing on the distress frequencies.

12.2.6.5 Each search and rescue aircraft, when used for search and rescue over maritime areas, shall be equipped with communication systems to enable it to communicate with maritime vessels.

12.2.6.6 Each search and rescue aircraft, when used for search and rescue over maritime areas shall carry a copy of the International Code of Signals to enable it to overcome language difficulties that may be experienced in communicating with ships. Search and rescue signals are given in the Appendix.

12.2.6.7 Communication facilities should be available to enable an expeditious exchange of messages between SRUs deployed for SAR and with their respective headquarters.

12.2.6.8 Unless it is known that there is no need to provide supplies to survivors by air, at least one of the aircraft participating in a search and rescue operation should carry droppable supplies and survival equipment.

12.2.6.9 Containers or packages containing survival equipment for dropping to survivors should have the general nature of their contents clearly printed or indicated by self-explanatory symbols and appropriately color coded.

- 12.2.6.10 The units conducting search and rescue mission shall be responsible for preparing the survival supplies to be airdropped and color-coded in accordance with the following:
- a) medical and first aid supplies - RED;
 - b) food and water – BLUE;
 - c) protective clothing and blankets - YELLOW;
 - d) other supplies - BLACK;
 - e) mixed supplies in the same container or package – MIXEDCOLORS.
- 12.2.6.11 Where droppable supplies of a mixed nature are packed in one container, corresponding combination codes should be used. Instructions on the use of equipment should be printed in at least in three languages.
- 12.2.6.12 At appropriate aerodromes where search and rescue aircraft are not readily available, suitably packed survival equipment for dropping by aircraft not normally participating in search and rescue operations should be provided.

12.2.7 Assistance to Accident Inquiry

To assist accident inquiry, rescue units should be accompanied by a representative of the Aircraft Accident Investigation and Inquiry Board (AAIIB) qualified to examine aircraft wreckage and take photographic evidence.

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12.3 COOPERATION

12.3.1 Cooperation between States

12.3.1.1 Whenever necessary, the Philippine Aeronautical Rescue and Coordination Center (PARCC) shall coordinate their search and rescue operations with those of adjacent States especially when these operations are proximate to adjoining SRRs.

12.3.1.1.1 The adjacent States of the Philippines and their respective SRRs are:

| | State | SRR |
|----|-----------|----------------|
| 1. | China | Hong Kong, SAR |
| 2. | Indonesia | Ujung Pandang |
| 3. | Japan | Naha |
| 4. | Malaysia | Kota Kinabalu |
| 5. | Singapore | Singapore |
| 6. | Taiwan | Taipei |
| 7. | USA | Oakland |
| 8. | Vietnam | Ho Chi Minh |

12.3.1.1.2 PARCC should, in so far as practicable, develop common search and rescue plans and procedures to facilitate coordination of search and rescue operations with those of neighboring States.

12.3.1.1.3 Subject to conditions as may be prescribed by the Director General for Civil Aviation of the Philippines, entry of search and rescue units of other States, for the purpose of searching for the site of aircraft accidents and rescuing survivors of such accidents, shall be permitted.

12.3.1.1.4 For the purpose of search and rescue, the authorities of other States who wish their search and rescue units to enter the territory of the Philippines shall transmit a request, giving full details of the projected mission and the need for it, to The Director General, Civil Aviation Authority of the Philippines, Old MIA Road, Pasay City, Metro Manila 1300, Philippines.

12.3.1.1.5 The Director General of CAAP shall:

- a) acknowledge the receipt of such a request, and
- b) as soon as possible, indicate the conditions, if any, under which the projected mission may be undertaken.

12.3.1.1.6 The Philippines, through the Civil Aviation Authority, should enter into agreements with neighboring States to strengthen search and rescue cooperation and coordination, setting forth the conditions for entry of each other's search and rescue units into its respective territories.

12.3.1.1.7 These agreements should also provide for expediting entry of such units with the least possible formalities.

- 12.3.1.1.8 By the authority granted by CAAP, PARCC:
- a) may request from other rescue coordination centers such assistance, including aircraft, vessels, persons or equipment, as may be needed;
 - b) may grant any necessary permission for the entry of such aircraft, vessels, persons or equipment into Philippine territory; and
 - c) may make the necessary arrangements with the Bureau of Customs, the Department of Foreign Affairs, the Philippine Air Force, concerned Embassies, if required, and other authorities with a view to expediting such entry.
- 12.3.1.1.9 By the authority granted by CAAP, PARCC may provide, when requested, assistance to other rescue coordination centers, including assistance in the form of aircraft, vessels, persons or equipment.
- 12.3.1.1.10 CAAP should make arrangements for joint training exercises involving PARCC, Philippine Air Force-505th Search and Rescue Group, the Naval Air Group-Philippine Fleet Philippine Navy, the Philippine Coast Guard Aviation Group, local search and rescue organizations, aircraft operators, and RCCs of other States to promote search and rescue efficiency.
- 12.3.1.1.11 CAAP should make arrangements for periodic liaison visits by PARCC personnel to RCCs of neighboring States.
- 12.3.2 Cooperation with Other Services**
- 12.3.2.1 CAAP PARCC, shall arrange for all aircraft, vessels and local emergency services and facilities which do not form part of the primary and secondary rescue groups to cooperate fully in search and rescue and to extend any possible assistance to survivors of aircraft accidents.
- 12.3.2.2 CAAP should ensure the closest practicable coordination between PARCC, the Philippine Air Force, the 505th Search and Rescue Group, the Naval Air Group-Philippine Navy, and the Philippine Coast Guard Aviation Group to provide for the most effective and efficient search and rescue services.
- 12.3.2.3 CAAP shall ensure that search and rescue services cooperate with organizations in charge for investigating aviation accidents and with those responsible for the care of survivors of an aviation accident.
- 12.3.2.4 To facilitate accident investigation, rescue units should, when practicable, be accompanied by persons from the Aircraft Accident Investigation and Inquiry Board of the CAAP who are qualified in the conduct of aircraft accident investigations.
- 12.3.2.5 The SAR Point-of-Contact (SPOC) in the Philippine SRR to receive COSPAS-ARSAT distress alerts shall be the Philippine Aeronautical RCC of CAAP.

12.3.3 Dissemination of information

12.3.3.1 Information necessary for the entry of search and rescue units of other States into Philippine SRR shall be contained in the Aeronautical Information Publication (AIP) of the Civil Aviation Authority of the Philippines.

12.3.3.2 CAAP should, to the extent practicable, disseminate information to the general public and emergency response authorities regarding actions to be taken when there is reason to believe that an aircraft's emergency situation may become cause for public concern or require a general emergency response.

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12.4 PREPARATORY MEASURES

12.4.1 Preparatory Information

12.4.1.1 The Philippine Aeronautical Rescue Coordination Center (PARCC) shall have readily available at all times, up-to-date information concerning the following in respect of its search and rescue region:

- a) search and rescue units, rescue sub-centers and alerting posts;
- b) air traffic services units;
- c) means of communication that may be used in search and rescue operations;
- d) addresses and telephone numbers of all operators, or their designated representatives, engaged in operations in the region; and
- e) any other public and private resources including medical and transportation facilities that are likely to be useful in search and rescue.

12.4.1.2 PARCC needs to have readily available all other information of interest to search and rescue, including information regarding:

- a) the locations, call signs, hours of watch, and frequencies of all radio stations likely to be employed in support of search and rescue operations;
- b) the locations and hours of watch of services keeping radio watch, and the frequencies guarded;
- c) locations where supplies of droppable emergency and survival equipment are stored; and
- d) known objects which might be mistaken for unmarked or unreported wreckage sites, particularly when viewed from an altitude.

12.4.1.3 PARCC should have ready access to information regarding the position, course and speed of ships that may be able to provide assistance to aircraft in distress and information on how to contact these vessels.

Note.— Information may either be directly accessed through the PARCC communication systems on real time or as relayed by maritime organizations.

12.4.1.4 Philippine Maritime RCC and maritime organizations need to individually or in cooperation with adjacent RCCs establish a ship reporting systems or arrange links with AMVER or regional ship reporting systems to facilitate search and rescue operations.

12.4.2 Plans of Operation

12.4.2.1 Each rescue coordination center shall prepare detailed plans of operation for the conduct of search and rescue operations within its search and rescue region.

12.4.2.2 Search and rescue plans of operations should be developed jointly with the operators and with all agencies that may assist in providing search and rescue service.

12.4.2.3 The plans of operation shall specify arrangements for the servicing and refuelling, to the extent possible, of aircraft, vessels and vehicles employed in search and rescue operations.

12.4.2.4 The search and rescue plans of operation should contain details regarding actions to be taken by those persons engaged in search and rescue, including:

- a) the manner in which search and rescue operations are to be conducted in the search and rescue region;
- b) the use of available communication systems and facilities;
- c) the actions to be taken jointly with other rescue coordination centers;
- d) the methods of alerting en-route aircraft and ships at sea;
- e) the duties and prerogatives of persons assigned to search and rescue;
- f) the possible redeployment of equipment that may be necessitated by meteorological or other conditions;
- g) the methods for obtaining essential information relevant to search and rescue operations, such as weather reports and forecasts, appropriate NOTAM, etc.;
- h) the methods for obtaining, from other rescue coordination centers, such assistance, including aircraft, vessels, persons or equipment, as may be needed;
- i) the methods for assisting distressed aircraft being compelled to ditch to rendezvous with surface craft;
- j) the methods for assisting search and rescue or other aircraft to proceed to aircraft in distress; and
- k) cooperative actions taken in conjunction with air traffic services units and other authorities concerned to assist aircraft known or believed to be subject to unlawful interference.

12.4.2.5 Search and rescue plans of operation should be integrated with airport emergency plans to provide for rescue services in the vicinity of aerodromes including coastal aerodromes and, water areas within the jurisdiction of aerodromes.

12.4.3 Search and Rescue Units

12.4.3.1 Each search and rescue unit shall:

- a) be cognizant of all parts of the plans of operation prescribed in 4.2 necessary for the effective conduct of its assigned mission; and

- b) keep the rescue coordination center informed of its preparedness status.

12.4.3.2

Each search and rescue unit shall:

- a) maintain in readiness the required number of search and rescue facilities; and
- b) maintain adequate supplies of rations, medical stores, signalling devices and other survival and rescue equipment.

12.4.4**Trainings and Exercises**

To achieve and maintain maximum efficiency in search and rescue, regular training of the search and rescue personnel shall be provided. Appropriate search and rescue exercises shall also be arranged for such personnel.

12.4.5**Wreckage**

Wreckage resulting from aircraft accidents within the entire Philippine Territory including its territorial waters or, in the case of accidents on the high seas or in areas of undetermined sovereignty, falling within the search and rescue region shall be removed, obliterated or charted following completion of the accident investigation, if its presence might constitute a hazard or confuse subsequent search and rescue operations.

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12.5 OPERATING PROCEDURES

12.5.1 Information concerning Emergencies

12.5.1.1 Any authority or any element of the search and rescue organization having reason to believe that an aircraft is in an emergency shall give immediately all available information to the rescue coordination center concerned.

12.5.1.2 The Philippine Aeronautical Rescue Coordination Center (PARCC) shall, immediately upon receipt of information concerning aircraft in emergency, evaluate such information and assess the extent of the operation required.

12.5.1.3 When information concerning aircraft in emergency is received from other sources than air traffic services units, the rescue coordination center shall determine the emergency phase the situation corresponds and shall apply the procedures applicable to that phase.

12.5.2 Procedure for Rescue Coordination Center during Emergency Phases

12.5.2.1 Uncertainty phase

Upon the occurrence of an uncertainty phase, the rescue coordination center shall co-operate to the utmost with air traffic services units and other appropriate agencies and services in order that incoming reports may be speedily evaluated.

12.5.2.2 Alert phase

Upon the occurrence of an alert phase the rescue coordination center shall immediately alert search and rescue units and initiate any necessary action.

12.5.2.3 Distress phase

Upon the occurrence of a distress phase, the rescue coordination center shall:

- a) immediately initiate action by search and rescue units in accordance with the appropriate plan of operation;
- b) ascertain the position of the aircraft, estimate the degree of uncertainty of this position, and, on the basis of this information and the circumstances, determine the extent of the area to be searched;
- c) notify the operator, where possible, and keep the operator informed of developments;
- d) notify other rescue coordination centers, the assistance of which seems likely to be required, or to which the SAR operator may be centered;

- e) notify associated air traffic service units, when the information on the emergency has been received from another source;
- f) request at an early stage such aircraft, vessels, coastal stations and other services not specifically included in the appropriate emergency response plan of operation and are able to:
 - 1) maintain a listening watch for transmissions from the aircraft in distress, survival radio equipment or an Emergency Locator Transmitter (ELT);
Note.— The frequencies for ELTs are 121.5 MHz and 406 MHz, taking into consideration factors due to the phasing out of the frequency 121.5 MHz.
 - 2) assist the aircraft in distress as far as practicable; and
 - 3) inform the rescue coordination center of any developments;
- g) from the information available, draw up a detailed plan of action for the conduct of the search and/or rescue operation required and communicate such plan for the guidance of the authorities immediately directing the conduct of such operation;
- h) amend as necessary, in the light of evolving circumstances, the detailed plan of action;
- i) notify the appropriate accident investigation authorities; and
- j) notify the State of Registry of the aircraft.

The order in which these actions are described shall be followed unless circumstances dictate otherwise.

12.5.2.4

Initiation of search and rescue action in respect of an aircraft whose position is unknown.

In the event that an emergency phase is declared in respect of an aircraft whose position is unknown and may be in one of two or more search and rescue regions, the following shall apply:

- a) When a rescue coordination center is notified of the existence of an emergency phase and is unaware of other centers taking appropriate action, it shall assume responsibility for initiating suitable action in accordance with 12.5.2 and confer with neighboring rescue coordination centers with the objective of designating one rescue coordination center to assume responsibility forthwith.
- b) Unless otherwise decided by common agreement of the rescue coordination centers concerned, the rescue coordination center to coordinate search and rescue action shall be the center responsible for the region in which the aircraft last reported its position; or the region to which the aircraft was proceeding when its last reported position was on the line separating two SRRs; or the region to which the aircraft was destined when it was not equipped with suitable two-way radio communication or not under obligation to maintain radio

communication; or the region in which the distress site is located as identified by the Cospas-Sarsat system.

- c) After declaration of the distress phase, the rescue coordination center with overall coordination responsibility shall inform all rescue coordination centers that may become involved in the operation of all the circumstances of the emergency and subsequent developments. Likewise all rescue coordination centers becoming aware of any information pertaining to the emergency shall inform the rescue coordination center that has overall responsibility.

12.5.2.5 Passing of information to aircraft in respect of which an emergency phase has been declared.

Whenever applicable, the rescue coordination center responsible for search and rescue action shall forward to the air traffic services unit serving the flight information region in which the aircraft is operating, information of the search and rescue action initiated, in order that such information can be passed to the aircraft.

12.5.3 Procedure where Responsibility for Operations Extends to Two or More Contracting States

Where the conduct of operations over the entire search and rescue region is the responsibility of more than one Contracting State, each involved State shall take action in accordance with the relevant plan of operations when so requested by the rescue coordination center of the region.

12.5.4 Procedure for Agencies in the Field

The agencies immediately directing the conduct of operations or any part thereof shall:

- a) give instructions to the units under their direction and inform the rescue coordination center of such instructions; and
- b) keep the rescue coordination center informed of developments.

12.5.5 Procedure for Rescue Coordination Centers— Termination and Suspension of Operations

12.5.5.1 Search and rescue operations shall continue until all survivors are delivered to a place of safety or until all reasonable hope of rescuing survivors has passed.

12.5.5.2 The responsible rescue coordination center shall normally be responsible for determining when to discontinue search and rescue operations.

12.5.5.3 When a search and rescue operation has been successful or when a rescue coordination center considers, or is informed, that an emergency no longer exists, the emergency phase shall be cancelled, the search and rescue operation shall be terminated and any agency, facility or service that has been activated or notified shall be promptly informed.

12.5.5.4 If a search and rescue operation becomes impracticable and the rescue coordination center concludes that there might still be survivors, the center shall temporarily suspend on-scene activities pending further developments and shall promptly inform any agency, facility or service which has been activated or notified. Relevant information subsequently received shall be evaluated and search and rescue operations resumed when justified and practicable.

12.5.6 Procedure at the Scene of an Accident

12.5.6.1 When multiple agencies/facilities are engaged in search and rescue operations on-scene, the rescue coordination center or rescue sub-center shall designate one or more units on-scene to coordinate all actions to help ensure the safety and effectiveness of air and surface operations, taking into account facility capabilities and operational requirements.

12.5.6.2 When a pilot-in-command observes that either another aircraft or a surface craft is in distress, the pilot shall, if possible and unless considered unreasonable or unnecessary:

- a) keep the craft in distress in sight until compelled to leave the scene or advised by the rescue coordination center that it is no longer necessary;
- b) determine the position of the craft in distress;
- c) as appropriate, report to the rescue coordination center or air traffic services unit as much of the following information as possible:
 - i. type of craft in distress, its identification and condition;
 - ii. its position, expressed in geographical or grid coordinates or in distance and true;
 - iii. bearing from a distinctive landmark or from a radio navigation aid;
 - iv. time of observation expressed in hours and minutes Coordinated Universal Time;
 - v. (UTC);
 - vi. number of persons observed;
 - vii. whether persons have been seen to abandon the craft in distress;
 - viii. on-scene weather conditions;
 - ix. apparent physical condition of survivors;
 - x. apparent best ground access route to the distress site; and
- d) act as instructed by the rescue coordination center or the air traffic services unit.

12.5.6.2.1 If the first aircraft to reach the scene of an accident is not a search and rescue aircraft, it shall take charge of on-scene activities of all

other aircraft subsequently arriving until the first search and rescue aircraft reaches the scene of the accident. If, in the meantime, such aircraft is unable to establish communication with the appropriate rescue coordination center or air traffic services unit, it shall, by mutual agreement, hand over to an aircraft capable of establishing and maintaining such communications until the arrival of the first search and rescue aircraft.

12.5.6.3 When it is necessary for an aircraft to convey information to survivors or surface rescue units, and two-way communication is not available, it shall, if practicable, drop communication equipment that would enable direct contact to be established, or convey the information by dropping a hard copy message.

12.5.6.4 When a ground signal has been displayed, the aircraft shall indicate whether the signal has been understood or not by the means described in 12.5.6.3 or, if this is not practicable, by making the appropriate visual signal.

12.5.6.5 When it is necessary for an aircraft to direct a surface craft to the place where an aircraft or surface craft is in distress, the aircraft shall do so by transmitting precise instructions by any means at its disposal. If no radio communication can be established, the aircraft shall make the appropriate visual signal.

12.5.7 **Procedure for a Pilot-in-Command Intercepting a Distress Transmission**

Whenever a distress transmission is intercepted by a pilot-in-command of an aircraft, the pilot shall, if feasible:

- a) acknowledge the distress transmission;
- b) record the position of the craft in distress if given;
- c) take a bearing of the signal transmission;
- d) inform the appropriate rescue coordination center or air traffic services unit of the distress transmission, giving all available information; and
- e) at the pilot's discretion, while awaiting instructions, proceed to the position given in the transmission.

12.5.8 **Search and Rescue Signals**

12.5.8.1 The air-to-surface and surface-to-air visual signals enumerated in the Appendix shall, when used, have the meaning indicated therein. They shall be used only for the purpose indicated; no other signals shall be used that will likely introduce confusion.

12.5.8.2 Upon observing any of the signals in the Appendix, aircraft shall take such action as may be required by the interpretation of the observed signal.

12.5.9 **Maintenance of Records**

- 12.5.9.1 Each rescue coordination center should keep a record of the operational efficiency of the search and rescue organization in its region.
- 12.5.9.2 Each rescue coordination center shall prepare appraisals of actual search and rescue operations in its region. These appraisals shall comprise any pertinent remarks on the procedures used and on the emergency and survival equipment, and any suggestions for improvement of those procedures and equipment. Those appraisals, which are likely to be of interest to other States, should be submitted to ICAO for information and dissemination, as appropriate.

12.6 SUPPLEMENTARY PROVISION

- 12.6.1 The expenses incurred by aircraft conducting search and rescue missions may be subsidized by the State. Detailed methods of subsidy shall be formulated by the department concerned in conjunction with the financial department through consultation.

12.7 REPEALING PROVISION

- 12.7.1 All previous Administrative Orders, Memorandum Circulars or part thereof inconsistent with provisions of this Civil Aviation Regulations-Air Navigation Services Part 12 are hereby repealed, amended or modified accordingly.

12.8 SEPARABILITY PROVISION

- 12.8.1 The provision of this Civil Aviation Regulations-Air Navigation Services Part 12 is hereby declared separable. If any portion thereof shall be held invalid or unconstitutional, such invalidity or unconstitutionality shall not affect other provisions which shall be in full force and effect.

12.9 DISTRIBUTION

- 12.9.1 This Civil Aviation Regulations-Air Navigation Services Part 12 shall be distributed to all entities concerned with the provision of search and rescue service in the Philippine Search and Rescue region. In particular, the following should seek guidance from this Regulation: Air Traffic Services facilities of the CAAP, airports, flight training schools, aircraft operators, Philippine Air Force-505th SRG, A3-PAF, Philippine Navy-PN3, Naval Air Group-Philippine Navy Philippine Fleet, Philippine Coast Guard-PCG3, PCG Air Group, NDRRMC, MMDCC, DOH, and other agencies involved in emergency response.

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APPENDIX 12.1

SEARCH AND RESCUE SIGNALS

1. Signals with Surface Craft

1.1 The following maneuvers performed in sequence by an aircraft mean that the aircraft wishes to direct a surface craft towards an aircraft or a surface craft in distress:

- a) circling the surface craft at least once;
- b) crossing the projected course of the surface craft close ahead at low altitude and:
 - 1) rocking the wings; or
 - 2) opening and closing the throttle; or
 - 3) changing the propeller pitch.

Note.— Due to high noise level on board a surface craft, the sound signals in 2) and 3) may be less effective than the visual signal in 1) and are regarded as alternative means of attracting attention.

- c) heading in the direction in which the surface craft is to be directed. Repetition of such maneuvers has the same meaning.

1.2 The following maneuvers by an aircraft means that the assistance of the surface craft to which the signal is directed is no longer required:

- crossing the wake of the surface craft close astern at a low altitude and:
 - 1) rocking the wings; or
 - 2) opening and closing the throttle; or
 - 3) changing the propeller pitch.

Note.— The following replies may be made by surface craft to the signal in 1.1:

- for acknowledging receipt of signals:
 - 1) the hoisting of the “code pennant” (vertical red and white stripes) close up (meaning understood);\
 - 2) the flashing of a succession of “T’s” by signal lamp in the Morse code;
 - 3) the changing of heading to follow the aircraft.
- for indicating inability to comply:
 - 1) the hoisting of the international flag “N” (a blue and white checkered square);
 - 2) the flashing of a succession of “N’s” in the Morse code.

Note.— See Note following 1.1 b), 3).

2. Ground-Air Visual Signal Code

2.1 Ground-air visual signal code for use by survivors

| No. | Message Code symbol | Code Symbol |
|-----|------------------------------|-------------|
| 1 | Require assistance | ✓ |
| 2 | Require medical assistance | X |
| 3 | No or Negative | N |
| 4 | Yes or Affirmative | Y |
| 5 | Proceeding in this direction | ↑ |

2.2 Ground-air visual signal code for use by rescue units

| No. | Message | Code symbol |
|-----|--|-------------|
| 1 | Operation completed | LLL |
| 2 | We have found all personnel | LL |
| 3 | We have found only some personnel | ++ |
| 4 | We are not able to continue. Returning to base | XX |
| 5 | Have divided into two groups. Each proceeding in direction indicated | ↔ |
| 6 | Information received that aircraft is in this direction | →→ |
| 7 | Nothing found. Will continue to search | NN |

2.3 Symbols shall be at least 2.5 meters (8 feet) long and shall be made as conspicuous as possible.

- Symbols may be formed by any means such as: strips of fabric, parachute materials, pieces of wood, stones or such like material; marking the surface by tramping, or staining with oil.
- Attention to the above signals may be attracted by other means such as radio, flares, smoke and reflected light.

- 3. Air-to-ground signals**
- 3.1 The following signals by aircraft mean that the ground signals have been understood:
- a) during the hours of daylight:
 - by rocking the aircraft's wings;
 - b) during the hours of darkness:
 - flashing on and off twice the aircraft's landing lights or, if not so equipped, by switching on and off twice its navigation lights.
- 3.2 Lack of the above signal indicates that the ground signal is not understood.

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