

### CIVIL AVIATION AUTHORITY OF SRI LANKA AVIATION SAFETY NOTICE

ASN No 108	Ref No: ATS/2010/18	File Ref: AS/24/12	
Recipients	: 1. Airport & Aviation Services (SL) Ltd		
01.Subject	: Requirements to be Satisfied by the Service Provider Responsible for the Provision Air Navigation Services and Organizations responsible to establish RCC/RSCs in Sri Lanka.		
02.Nature	: Compulsory		
03.Issue no	: 02		
04.Status	: Replacement to ASN 108 Replacement to ASN 126	issued on 20 May 2009 and issued on 15 Sep 2010	
05. Effective date	: With immediate effect		
06. Validity	: Until Further Notice		
07.Contact person	contact Deputy Director Services) Civil Aviation	For more details / clarifications about this ASN please contact Deputy Director (Aerodrome & Navigation Services) Civil Aviation Authority, No.64, Galle Road, Colombo 03, Sri Lanka. Telephone: +94 11 2436324. E-mail:ddans@caa.lk	
08.Availability	www.caa.lk and the tech	nt is available on web site- hnical library of Civil Aviation e collected at reproduction cost	
09.Applicability	<ul> <li>1. Air Navigation Services</li> <li>2. Organizations responsib Lanka</li> </ul>	Providers le to establish RCC/RSCs in Sri	
10.Comments	: Comments (if any) on the Notice (ASN) may be f However the Aviation Sa on the date shown therein comment made by any pe	e contents of this Aviation Safety orwarded to the contact person. fety Notice will come into effect notwithstanding any objection or erson or party unless and until an on Safety Notice is issued afresh f Civil Aviation.	
11.Notice	; Service Provider/Providers	irements to be Satisfied by the s Responsible for the Provision of and Organizations responsible to i Lanka.	

12. History of Revision	÷ Nil
13. Related ASNs	<ul> <li>ASN086, ASN090, ASN091, ASN092, ASN100, ASN 106, ASN107, ASN113, ASN 114, ASN 115, ASN 116,ASN 117,ASN 118,and ASN 124</li> </ul>
14.Action Required	: Air Navigation Services Providers and Organizations responsible to establish RCC/RSCs in Sri Lanka are required to strictly adhere to the requirements specified in the attachment to this ASN.
15.Check list	: List of current ASN nos are as follows

ASN No	Issue No	Date of Applicability	Remarks
ASN002	02	23.09.2010	Replaced ASN no 002 issue no 01
ASN004	01	13.02.2001	nil
ASN005	01	26.03.2001	nil
ASN007	01	15.09.2001	nil
ASN008	02	16.11.2006	Replaced ASN no 008 issue no 01
ASN009	01	18.02.2002	nil
ASN010	01	18.02.2002	nil
ASN011	01	18.02.2002	nil
ASN012	01	18.02.2002	nil
ASN013	01	08.02.2002	nil
ASN014	01	01.03.2002	nil
ASN015	01	01.03.2002	nil
ASN016	01	01.03.2002	nil
ASN017	02	10.03.2005	Replaced ASN no 017 issue no 01
ASN018	01	20.03.2002	nil
ASN019	01	01.04.2002	nil
ASN021	01	01.04.2002	nil
ASN022	01	08.04.2002	nil
ASN023	03	20.09.2010	Replaced ASN no 023 issue no 02 and Replaced ASN no 003
ASN024	01	02.09.2002	nil
ASN025	02	15.10.2002	Replaced ASN no 001
ASN026	01	15.10.2002	nil
ASN027	01	20.12.2002	nil
ASN028	01	12.03.2003	nil
ASN029	01	21.03.2002	nil
ASN030	01	10.07.2002	nil
ASN031	01	15.07.2003	Replaced ASN no 006
ASN032	01	25.07.2003	nil
ASN033	02	25.08.2005	Replaced ASN no 033 issue no 01
ASN034	01	11.09.2003	nil
ASN035	01	12.09.2003	nil
ASN036	02	25.08.2010	Replaced ASN no 036 issue no 01
ASN037	01	13.10.2003	nil
ASN038	02	30.06.2010	Replaced ASN no 038 issue no 01
ASN039	04	19.08.2008	Replaced ASN no 039 issue no 03
ASN040	01	07.06.2004	nil
ASN041	01	16.06.2004	nil
ASN042	06	10.06.2010	Replaced ASN no 042 issue no 05 and Replaced ASN no 050
ASN043	02	12.08.2004	Amendment to ASN no 013
ASN044	03	24.05.2010	Replaced ASN no 044 issue no 02
ASN045	02	05.01.2007	Replaced ASN no 045 issue no 01
ASN046	03	10.06.2010	Replaced ASN no 046 issue no 02
ASN047	04	24.05.2010	Replaced ASN no 047 issue no 03

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ASN048	02	05.01.2007	Replaced ASN no 048 issue no 01
ASN049	01	20.09.2004	nil
ASN051	02	10.06.2010	Replaced ASN no 051 issue no 01
ASN052	01	20.09.2004	nil
ASN053	05	10.06.2010	Replaced ASN no 053 issue no 04 and ASN no 64
ASN054	04	15.12.2009	Replaced ASN no 054 issue no 03
ASN055	04	17.07.2009	Replaced ASN no 055 issue no 03
ASN056	02	20.07.2009	Replaced ASN no 056 issue no 01
ASN057	02	01.10.2009	Replaced ASN no 057 issue no 01
ASN058	03	21.07.2009	Replaced ASN no 058 issue no 02
ASN059	02	16.12.2009	Replaced ASN no 059 issue no 01
ASN060	03	20.09.2010	Replaced ASN no 060 issue no 02
ASN061	02	05.08.2005	Replaced Page no 01 of the attachment to the ASN no 061 issue no 01
ASN062	01	01.03.2005	nil
ASN063	01	20.12.2004	nil
ASN065	01	06.04.2005	nil
ASN066	01	16.05.2005	nil
ASN067	01	16.05.2005	nil
ASN068	01	18.05.2005	nil
ASN069	01	18.05.2005	nil
ASN070	01	18.05.2005	nil
ASN071	01	18.05.2005	nil
ASN072	01	19.05.2005	nil
ASN073	01	19.05.2005	nil
ASN074	01	19.05.2005	nil
ASN075	01	19.05.2005	nil
ASN076	01	16.06.2005	nil
ASN077	02	01.06.2009	Replaced ASN no 077 issue No. 01
ASN078	01	21.12.2005	nil
ASN079	02	17.06.2010	Replaced ASN no 079 issue No. 01
ASN080	02	01.07.2010	Replaced ASN no 080 issue No. 01
ASN081	05	10.06.2010	Replaced ASN no 081 issue No. 04
ASN082	01	23.11.2005	nil
ASN083	01	01.12.2005	nil
ASN084	01	16.12.2005	nil
ASN085	01	05.01.2006	nil
ASN086	03	12.07.2010	Replaced ASN no 086 issue No. 02
ASN089	01	10.05.2006	nil
ASN090	03	28.05.2010	Replaced ASN no 090 issue No. 02
ASN091	04	18.11.2010	Replaced ASN no 091 issue No. 03
ASN092	01	09.11.2007	nil
ASN093	02	18.11.2010	Replaced ASN no 093 issue No. 01
ASN094	01	02.06.2006	nil
ASN095	01	25.09.2006	nil
ASN096	01	11.09.2007	nil
ASN097	02	20.01.2010	Replaced ASN no 097 issue No. 01
ASN099	02	25.05.2010	Replaced ASN no 099 issue No. 01
ASN100	04	19.08.2010	Replaced ASN no 100 issue No. 03
ASN101	01	28.01.2008	nil
ASN102	01	04.03.2008	nil
ASN103	01	01.08.2008	nil
ASN104	01	28.08.2008	nil
ASN104 ASN105	01	07.08.2008	nil
ASN106 ASN107	01 01	03.12.2008	nil
ASN108	02	04.10.2010	Replaced ASN no 108 issue No. 01 and replaced ASN 126
4 GN1100	01	07.09.2009	nil
ASN109	01	07.09.2009	1111

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ASN111	02	15.10.2010	Replaced ASN no 111 issue No. 01
ASN112	02	15.09.2010	Replaced ASN no 112 issue No. 01
ASN113	01	03.03.2010	nil
ASN114	01	04.03.2010	nil
ASN115	01	06.04.2010	nil
ASN116	01	06.04.2010	nil
ASN117	01	21.05.2010	nil
ASN118	01	24.05.2010	nil
ASN119	01	22.06.2010	nil
ASN120	01	02.07.2010	nil
ASN121	01	08.07.2010	nil
ASN122	01	25.09.2010	nil
ASN123	-	-	Not issued yet
ASN124	01	23.07.2010	nil
ASN125	01	15.09.2010	nil

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**Civil Aviation Authority of Sri Lanka** 

Requirements to be satisfied by the Service Providers for the Provision of Air Navigation Services in Sri Lanka



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## **Definitions and Abbreviations**

When the following terms/abbreviations are used in this document, they have the following meanings. The meanings of the terms/abbreviations given here are limited to this document only.

#### **Definitions**

Aerodrome control service – Air traffic control service for aerodrome traffic.

**Aeronautical information service (AIS)** – A service established within the defined area of coverage responsible for the provision of aeronautical information/data necessary for the safety, regularity and efficiency of air navigation.

**Aeronautical information** – Information resulting from the assembly, analysis and formatting of aeronautical data.

**Aeronautical telecommunication service** – A telecommunication service provided for any aeronautical purpose.

Air Navigation Services – Services provided under following services;

- 1) Air Traffic services
- 2) Aeronautical Communication Services
- 3) Aeronautical Information Service

*Air traffic advisory service* – A service provided within advisory airspace to ensure separation, in so far as practical, between aircraft which are operating on IFR flight plans.

*Air traffic control service* – A service provided for the purpose of:

- a) preventing collisions:
  - 1) between aircraft, and
  - 2) on the manoeuvring area between aircraft and obstructions; and
- b) expediting and maintaining an orderly flow of air traffic.

*Air traffic service* – A generic term meaning variously, flight information service, alerting service, air traffic advisory service, air traffic control service (area control service, approach control service or aerodrome control service).

**Alerting service** – A service provided to notify appropriate organizations regarding aircraft in need of search and rescue aid, and assist such organizations as required.

*Approach control service* – Air traffic control service for arriving or departing controlled flights.

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Area control service - Air traffic control service for controlled flights in control areas.

**Radio navigation service** – means an aeronautical radio navigation service within the meaning given in Volume II of Annex 10 to the Chicago Convention.

*Flight information service* – A service provided for the purpose of giving advice and information useful for the safe and efficient conduct of flights.

*Manoeuvring area* – That part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, excluding aprons.

#### ABBREAVIATIONS

AASL – Airport & Aviation serevoces (SL) Ltd.

- AIS Aeronautical Information Service
- ANS Air Navigation services
- ATS Air Traffic Services
- CAA Civil Aviation Authority
- CNS Communication, Navigation and Surveillance
- DGCA Director General of Civil Aviation
- PANS-ATM Procedur for Air Navigation Services Air Traffic Management
- PANS-OPS Procedure for Air Navigation Services Aircraft Operation
- RCC Rescue Co-ordination Centre
- RSC Rescue Sub Centre

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## 1 Chapter 1 - General Requirements

#### 1.1 Air Traffic Services

- The service provider responsible for the provision of Air Traffic Services shall have developed Policy and procedure for determining the capability of the ATS system including the number of staff required to ensure the provision of an adequate system.
- The service provider/providers responsible for the provision of Air Traffic Services shall have written terms of reference/job descriptions for their technical staff in;
  - a) Air Traffic services
  - b) PANS-OPS (Construction of visual and instrument flight procedures) Service
- The service provider/providers responsible for the provision of Air Traffic Services shall have a procedure to develop a training programme, including refresher training where necessary for its technical staff in;
  - a) Air Traffic services
  - b) PANS-OPS (Construction of visual and instrument flight procedures) Service
- The service provider/providers responsible for the provision of Air Traffic Services shall have a procedure to maintain training records or files for its technical staff in;
  - a) Air Traffic services
  - b) PANS-OPS (Construction of visual and instrument flight procedures) Service
- 5) The service provider/providers responsible for the provision of Air Traffic services shall have a procedure to ensure the continued competency of Air Traffic Controllers on new equipment, procedures and updated communications.
- 6) The service provider/providers responsible for the provision of Air Traffic services shall have developed policies and procedures to enable recruitment and retention of adequately qualified and experience ATS staff.
- 7) The service provider responsible for the provision of Air Traffic Services shall adopt policies and procedures on human factors principles with regard to Human Centred Automation, Situational Awareness and Managing errors, etc as per the guidelines provided on human factors principles in Doc 9758
- 8) The service provider responsible for the provision of Air Traffic Services shall establish and implement monitoring mechanisms for RVSM.

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- 9) The service provider responsible for the provision of Air Traffic Services shall establish and implement a process to verify that aircraft is approved for operation in RVSM airspace if RVSM is implemented in the airspace.
- 10) The service provider responsible for the provision of Air Traffic Services shall ensure that ATC contingency procedures are established for:
  - 1. Radio communication contingencies
  - 2. Emergency separation
  - 3. Short-term conflict alert (STCA)
  - 4. Minimum safe altitude warning (MSAW)

#### **1.2** Aeronautical Telecommunication Service/Aeronautical Aids for CNS

- 1) The service provider/providers responsible for the provision of Aeronautical telecommunication Service/ Aeronautical Aids for CNS shall have written terms of reference/job descriptions for their technical staff.
- 2) The service provider/providers responsible for the provision of Aeronautical telecommunication Service/ Aeronautical Aids for CNS shall have a procedure to develop a training programme, including refresher training where necessary for its technical staff.
- 4) The service provider/providers responsible for the provision of Aeronautical telecommunication Service/ Aeronautical Aids for CNS shall have a procedure to maintain training records or files for its technical staff.

#### **1.3 Aeronautical Information Service**

- 1) The service provider/providers responsible for the provision of Aeronautical Information Service including Cartography Service shall have written terms of reference/job descriptions for their technical staff.
- The service provider/providers responsible for the provision of Aeronautical Information Service including Cartography Service shall have a procedure to develop a training programme, including refresher training where necessary for its technical staff.
- The service provider/providers responsible for the provision of Aeronautical Information Service including Cartography Service shall have a procedure to maintain training records or files for its technical staff.

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## 2 Chapter 2 - Documentation Requirements

#### 2.1 Air Traffic Services

- The service provider/providers responsible for the provision of Air Traffic Services shall hold copies of the relevant technical manuals, and all other documents, necessary for the provision of the services in each operational centres.
- The service provider/providers responsible for the provision of Air Traffic Services shall have operational and administrative manuals for compliance by its personnel
- 3) The service provider/providers shall establish a procedure to control/update all above documents acceptable to the DGCA
- 4) The service provider/providers responsible for the provision of Air Traffic services shall establish procedures to ensure that a logbook is kept and maintained at each ATS unit.

#### 2.2 Aeronautical telecommunication Service/ Aeronautical Aids for CNS

- The service provider/providers responsible for the provision of Aeronautical telecommunication Service/ Aeronautical Aids for CNS shall hold copies of the relevant technical manuals, and all other documents, necessary for the provision of the services.
- 2) The service providers shall establish a procedure to control/update all above documents acceptable to the DGCA

#### 2.3 Aeronautical Information Service

- The service provider/providers responsible for the provision of Aeronautical Information Service including cartography service shall hold copies of the relevant technical manuals, and all other documents, necessary for the provision of the services.
- The service provider/providers responsible for the provision of Aeronautical Information Service shall have operational/administrative manual(s) for compliance by its personnel.
- 3) The service providers shall establish a procedures to control/update all above documents acceptable to the DGCA.

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## 3 Chapter 3 - OPERATIONAL REQUIREMENTS

#### 3.1 Air Traffic Services

- 1) The service provider/providers responsible for the provision of Air Traffic services shall establish systems and procedures to provide those services in accordance with the requirements specified by the DGCA and procedures published in ICAO PANS-ATM (Doc.4444).
- 2) Radar Services

The service provider/providers responsible for the provision of Air Traffic services shall establish procedures to ensure that, where radar is used to support the provision of an Air Traffic Services, all radar services are provided in accordance with procedures published in ICAO PANS-ATM (Doc.4444) and procedures issued by Director General of Civil Aviation time to time.

3) Radio and Telephony Procedures

The service provider/providers responsible for the provision of Air Traffic services shall establish systems and procedures to ensure that the standard radio telephony procedures and Communication procedures used are in accordance with the requirements specified in ICAO Annex 10 to the convention on International Civil Aviation and.

4) Flight plans

The service provider/providers responsible for the provision of Air Traffic services shall establish procedures for the acceptance and actioning of flight plans in accordance with the requirements specified in the ICAO PANS-ATM (Doc.4444) and any other requirements issued by Director General of Civil Aviation time to time.

5) Separation Criteria and Minima

The service provider/providers responsible for the provision of Air Traffic services shall establish procedures to ensure that separation between aircraft shall be applied in accordance with ICAO PANS-ATM (Doc.4444) and Regional Supplementary Procedures.

6) Standard Phraseology

Standard Phraseology used in the provision of Air Traffic Services shall be in accordance with the requirements given in ICAO PANS-ATM (Doc.4444) and ICAO Document 9432.

7) Meteorological Services



The service provider/providers responsible for the provision of Air Traffic services shall establish systems and procedures to ensure that all meteorological information is obtained in accordance with the requirements specified by the Director General of Civil Aviation, when providing as part of any flight information service.

- 8) Safety Management System
  - i. The service provider/providers responsible for the provision of Air Traffic services shall establish procedures to ensure that a Safety Management System (SMS) is established in accordance with the requirements specified in the ASN 92 and the other requirements issued by the Director General of Civil Aviation time to time.
  - ii. The service provider/providers responsible for the provision of Air Traffic Services shall establish safety performance indicators and safety performance targets acceptable to DGCA in respect of hazards identified in the system for the purpose of monitoring and improving safety performance in the ATS System.
  - iii. The service provider/providers responsible for the provision of Air Traffic Services shall establish a method for post-implementation monitoring to verify that the defined level of safety continues to be met.
  - iv. The service provider/providers responsible for the provision of Air Traffic Services shall ensure that the appointed Safety Manager who is responsible for the implementation and maintenance of SMS is adequately qualified to fulfill his responsibilities and adequate qualified personnel are available at the level of the service provider to conduct safety reviews?
  - v. The service provider/providers responsible for the provision of Air Traffic Services shall establish and implement a runway safety programme.
  - vi. The service provider/providers responsible for the provision of Air Traffic Services shall establish and implement a system for reporting ATC incidents.
- 9) Action after serious incident or accident

The service provider/providers responsible for the provision of Air Traffic services shall establish procedures to follow after a serious incident or accident acceptable to the Director General of Civil Aviation.

#### 10) PANS-OPS Procedure Design

i. The service provider responsible for the provision of Air Traffic Services shall be responsible for the development of PANS-OPS Visual and Instrumental Flight Procedures in accordance with the guidance provided in ICAO PANS-OPS

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Aircraft Operations, (Construction of Visual and Instrumental Flight Procedures Manual) Doc 8168.

- ii. The service provider responsible for the provision of Air Traffic Services shall ensure that flight inspections of instrument flight procedures, including obstacle checks, are carried out.
- iii. The service provider responsible for the provision of Air Traffic Services shall publish obstacle clearance altitude/height (OCA/H)?
- iv. The service provider responsible for the provision of Air Traffic Services shall establish and publish operating minima (e.g. visibility, MDA, DH, DA, MDA/H, DA/H) for instrument approaches at aerodromes?
- v. The service provider responsible for the provision of Air Traffic Services shall retain all procedure design documentation so as to allow any data anomalies or errors found during the production, maintenance or operational use of the procedure to be corrected.
- vi. The Service provider shall use the criteria specified in ICAO Doc 8168, Vol. ii as the basis for PANS-OPS procedure design.
- vii. The minimum qualifications of procedures specialists who are responsible for the design of flight procedures shall be as follows;
  - a. Successful completion of Pans-ops basic and advanced courses
  - b. Considerable period of on the job training under a qualified Pans-ops procedure designer.

#### 3.2 Aeronautical Telecommunication Service/Aeronautical Aids for CNS

- The service provider/providers responsible for the provision of Aeronautical telecommunication Service/ Aeronautical Aids for CNS shall establish systems and procedures to ensure that the provision of Aeronautical Telecommunication Service is in accordance with the requirements specified in the ICAO Annex 10 to the convention on International Civil aviation.
- 2) Service provider/providers responsible for the provision of Aeronautical telecommunication Service/ Aeronautical Aids for CNS shall ensure that requirements for flight inspection are established and periodical flight inspections are provided for radio navigation aids?

#### 3.3 Aeronautical Information Service

1) The service provider responsible for the provision of Aeronautical Information Service shall establish systems and procedures to ensure that the provision of Aeronautical Information Service is in accordance with the requirements specified by the DGCA.

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## 4 Chapter 4 - Requirements for RCCs

# Requirements to be satisfied by the entity responsible for the establishment of RCCs

- 1) The entity responsible for the establishment of RCCs shall make arrangements to staff each RCC and, as appropriate, RSCs 24 hours a day by trained and qualified personnel proficient in the use of the language used for radiotelephony communications.
- The entity responsible for the establishment of RCCs shall make arrangements to employ sufficient workforce skilled in coordination and operational functions at the each RCC and RSC as appropriate
- The entity responsible for the establishment of RCCs shall ensure that each RCC and, if appropriate, RSC develop written job descriptions for each of their technical staff.
- 4) The entity responsible for the establishment of RCCs shall ensure that each RCC and, if appropriate, RSC establish a training programme for their staff.
- 5) The entity responsible for the establishment of RCCs shall ensure that each RCC and, if appropriate, RSC maintain training records for their technical staff.
- 6) The entity responsible for the establishment of RCCs shall ensure that each RCC personnel involved in the conduct of radiotelephony communications are proficient in the use of the English language.
- 7) The entity responsible for the establishment of RCCs shall ensure that SAR personnel are regularly trained and that appropriate SAR exercises are arranged.

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