

GEN 0.1-1 15 JAN 25

GEN (GENERAL) GEN 0 GEN 0.1 PREFACE

1 Civil Aviation Authority

The Aeronautical Information Publication is published under the authority of the South African Civil Aviation Authority.

2 Applicable ICAO documents

The AIP is prepared in accordance with the Standards and Recommended Practices (SARP's) of Annex 15 to the Convention on International Civil Aviation, the Aeronautical Information Services Manual (ICAO Doc 8126) and the, Procedures for Air Navigation Services - Aeronautical Information Management (ICAO Doc 10066). Charts contained in the AIP are produced in accordance with Annex 4 to the Convention on International Civil Aviation and the Aeronautical Chart Manual (ICAO Doc 8697). Significant differences from ICAO Standards, Recommended Practices and Procedures are given in subsection GEN 1.7.

3 Publication Media

3.1 The South African Aeronautical Information Publication (AIP) is available in printed format as well as online. The printed version is available from the South African Civil Aviation Authority, Section Aeronautical Information Services, Publications office. Contact details: +27 11 545 1220, +27 11 545 1221, email: ais@caa.co.za

A PDF version of the AIP is available on the SACAA web-site at www.caa.co.za/Industry/ Aeronautical Information.

- 4 The AIP structure and established regular amendment interval
- 4.1 The AIP structure and regular amendment intervals

The AIP forms part of the Aeronautical Information Product, details of which are given in subsection GEN 3. 1. The principal AIP structure is shown in graphic form after paragraph 4 below. The AIP is made up of three Parts, General (GEN), En route (ENR) and Aerodromes (AD), each divided into sections and subsections as applicable, containing various types of information subjects.

4.1.1 Part I - General (GEN)

Part 1 consists of five sections containing information as briefly described hereafter.

GEN 0. Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; and the Table of Contents to Part 1.



GEN 1. National regulations and requirements - Designated authorities; Entry, transit and departure of aircraft; Entry, transit and departure of passengers and crew; Entry, transit and departure of cargo; Aircraft instruments, equipment and flight documents; Summary of national regulations and international agreements/ conventions; and Differences from ICAO Standards, Recommended Practices and Procedures.

GEN 2. Tables and codes - Measuring system, aircraft markings, holidays; Abbreviations used in AIS publications; Chart symbols; Location indicators; List of radio navigation aids; Conversion tables; and Sunrise/Sunset tables.

GEN 3. Services - Aeronautical information services; Aeronautical charts; Air traffic services; Communication services; Meteorological services; and Search and rescue.

GEN 4. Charges for aerodromes/heliports and air navigation services - Aerodrome/heliport charges; and Air navigation services charges.

4.1.2 Part 2 - En route (ENR)

GEN 0.1-2

15 JAN 25

Part 2 consists of seven sections containing information as briefly described hereafter.

ENR 0. Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; and the Table of Contents to Part 2.

ENR 1. General rules and procedures - General rules; Visual flight rules; Instrument flight rules; ATS airspace classification; Holding, approach and departure procedures; Radar services and procedures; Altimeter setting procedures; Regional supplementary procedures; Air traffic flow management; Flight planning; Addressing of flight plan messages; Interception of civil aircraft; Unlawful interference; and Air traffic incidents.

ENR 2. Air traffic services airspace - Detailed description of Flight information regions (FIR); Upper flight information regions (UIR); Terminal control areas (TMA); and Other regulated airspace.

ENR 3. ATS routes - Detailed description of Lower ATS routes; Upper ATS routes; Area navigation routes; Helicopter routes; Other routes; and En route holding.

Note - Other types of routes which are specified in connection with procedures for traffic to and from aerodromes/heliports are described in the relevant sections and subsections of Part 3 - Aerodromes.

ENR 4. Radio navigation aids/systems - Radio navigation aids - en-route; Special navigation systems; Name-code designators for significant points; and Aeronautical ground lights - en-route.



ENR 5. Navigation warnings - Prohibited, restricted and danger areas; Military exercise and training areas; Other activities of a dangerous nature; Air navigation obstacles - en-route; Aerial sporting and recreational activities; and Bird migration and areas with sensitive fauna.

ENR 6. En-route charts - En-route Chart - ICAO and index charts.

4.1.3 Part 3 - Aerodromes (AD)

Part 3 consists of four sections containing information as briefly described hereafter.

AD 0. Preface; Record of AIP Amendments; Record of AIP Supplements; Checklist of AIP pages; List of hand amendments to the AIP; and the Table of Contents to Part 3.

AD 1. Aerodromes/Heliports - Introduction - Aerodrome/heliport availability; Rescue and fire fighting services and Snow plan; Index to aerodromes and heliports; and Grouping of aerodromes/heliports.

AD 2. Aerodromes - Detailed information about aerodromes, including helicopter landing areas, if located at the aerodromes, listed under 24 subsections.

AD 3. Heliports - Detailed information about heliports (not located at aerodromes), listed under 23 subsections.

4.2 Regular amendment interval

Regular amendments to the AIP will be issued once every three months. The publication dates will be on:-

15 January, 15 April, 15 July, 15 October

5 Service to contact in case of detected AIP errors.

In the compilation of the AIP, care has been taken to ensure that the information contained therein is accurate and complete. Any errors and omissions which may nevertheless be detected, as well as any correspondence concerning the Aeronautical Information Product, should be referred to:

South African Civil Aviation Authority Aeronautical Information Services Private Bag x 73 HALFWAY HOUSE 1685 South Africa TEL: 011 545 1224/1195/1590 Email: ais@caa.co.za



GEN 0.1-4

15 JAN 25



GEN 0.2-1 15 APR 16

					AIRAC AIP AMENDMENT			
NR/Year	Publication date	Date inserted	Inserted by	NR/Year	Publication date	Effective date	Inserted by	
A001	APR 97							
A002	JUL 97							
A003	OCT 97							
A004	APR 98							
A005	JUL 98							
A006	OCT 98							
A007	JAN 99							
A008	APR 99							
A009	JUL 99							
A010	OCT 99							
A011	JAN 00							
A012	APR 00							
A013	JUL 00							
A014	OCT 00							
A015	JAN 01							
A016	APR 01							
A017	JUL 01							
A018	OCT 01							
A019	JAN 02							
A020	APR 02							
A021	JUL 02							
A022	OCT 02							
A023	JAN 03							
A024	APR 03							
A025	JUL 03							
A026	OCT 03							
A027	JAN 04							
A028	APR 04							
A029	JUL 04							

GEN 0.2 Record of AIP amendments



GEN 0.2-2
15 APR 16

AIP AMENDMENT			AIRAC AIP AMENDMENT					
NR/Year	Publication date	Date inserted	Inserted by		NR/Year	Publication date	Effective date	Inserted by
A030	OCT 04							
A031	JAN 05							
A032	APR 05							
A033	JUL 05							
A034	OCT 05							
A035	JAN 06							
A036	APR 06							
A037	15 JUL 06							
A038	15 OCT 06							
A039	15 JAN 07							
A040	15 APR 07							
A041	15 JUL 07							
A042	15 OCT 07							
1/08	15 JAN 08							
2/08	15 APR 08							
3/08	15 JUL 08							
4/08	15 OCT 08							
1/09	15 JAN 09							
2/09	15 APR 09							
3/09	15 JUL 09							
4/09	15 OCT 09							
1/10	15 JAN 10							
2/10	15 APR 10							
3/10	15 JUL 10							
4/10	15 OCT 10							
1/11	15 JAN 11							
2/11	15 APR 11							
3/11	15 JUL 11							
4/11	15 OCT 11							
1/12	15 JAN 12							
2/12	15 APR 12]				

AMDT 2/16



GEN 0.2-3 15 JAN 25

AIP AMENDMENT			
NR/Year	Publication date	Date inserted	Inserted by
3/12	15 JUL 12		
4/12	15 OCT 12		
1/13	15 JAN 13		
2/13	15 APR 13		
3/13	15 JUL 13		
4/13	15 OCT 13		
1/14	15 JAN 14		
2/14	15 APR 14		
3/14	15 JUL 14		
4/14	15 OCT 14		
1/15	15 JAN 15		
2/15	15 APR 15		
3/15	15 JUL 15		
4/15	15 OCT 15		
1/16	15 JAN 16		
2/16	15 APR 16		
3/16	15 JUL 16		
4/16	15 OCT 16		
1/17	15 JAN 17		
2/17	15 APR 17		
3/17	15 JUL 17		
4/17	15 OCT 17		
1/18	15 JAN 18		
2/18	15 APR 18		
3/18	15 JUL 18		
4/18	15 OCT 18		
1/19	15 JAN 19		
2/19	15 APR 19		
3/19	15 JUL 19		
4/19	15 OCT 19		
1/20	15 JAN 20		

Civil Aviation Authority



GEN 0.2-4 15 JAN 25

	AIP AME	NDMENT	
NR/Year	Publication date	Date inserted	Inserted by
2/20	15 APR 20		
3/20	15 JUL 20		
4/20	15 OCT 20		
1/21	15 JAN 21		
2/21	15 APR 21		
3/21	15 JUL 21		
4/21	15 OCT 21		
1/22	15 JAN 22		
2/22	15 APR 22		
3/22	15 JUL 22		
4/22	15 OCT 22		
1/23	15 JAN 23		
2/23	15 APR 23		
3/23	15 JUL 23		
4/23	15 OCT 23		
1/24	15 JAN 24		
2/24	15 APR 24		
3/24	15 JUL 24		
4/24	15 OCT 24		1
1/25	15 JAN 25		
1/25	15 APR 25		1
1/25	15 JUL 25		
1/25	15 OCT 25		
			1

AMDT 1/25



GEN 0.3-1 15 JAN 25

NR⁄ Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
S063/22	FAPE Name change		11 AUG 2022 - PERM	
S064/22	FAEL Name change		11 AUG 2022 - PERM	
S052/23	Decommissioning of NDB EC		18 MAY 2023 - PERM	
S089/23	NAVAID Replacement Programme		11 SEP 2023 - 12 SEP 2025	
S057/24	FAPP Facilities		11 JUL 2024 - 22 JAN 2025	
S059/24	FARB Facilities		11 JUL 2024 - 22 JAN 2025	
S067/24	FAWK Facilities		08 AUG 2024 - 19 FEB 2025	
S068/24	FALM Facilities		08 AUG 2024 - 19 FEB 2025	
S069/24	AIMU Facilities		08 AUG 2024 - 19 FEB 2025	
S070/24	Central Summer Gliding Area		01 OCT 2024 - 15 MAR 2025	
S071/24	FAUP Facilities		05 SEP 2024 - 19 MAR 2025	
S078/24	FAUT Facilities		05 SEP 2024 - 19 MAR 2025	
S079/24	FAHS Facilities		05 SEP 2024 - 19 MAR 2025	
S080/24	FAVV Facilities		05 SEP 2024 - 19 MAR 2025	
S081/24	FAGM Facilities		05 SEP 2024 - 19 MAR 2025	

GEN 0.3 RECORD OF AIP SUPPLEMENTS



GEN 0.3-2 15 JAN 25

	NR⁄ Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
I	S082/24	FAPE Facilities		05 SEP 2024 - 19 MAR 2025	
I	S083/24	FAEL Facilities		05 SEP 2024 - 19 MAR 2025	
I	S085/24	FASK Facilities		03 OCT 2024 - 16 APR 2025	
I	S088/24	FACT Facilities		03 OCT 2024 - 16 APR 2025	
I	S089/24	FAUL Facilities		03 OCT 2024 - 16 APR 2025	
I	S090/24	FAPN Facilities		03 OCT 2024 - 16 APR 2025	
I	S091/24	FALA Facilities		03 OCT 2024 - 16 APR 2025	
I	S092/24	FALE Facilities		03 OCT 2024 - 16 APR 2025	
I	S094/24	Charts		03 OCT 2024 - PERM	
I	S095/24	Letdown Procedures		03 OCT 2024 - PERM	
I	S096/24	FAPA Facilities		03 OCT 2024 - 16 APR 2025	
I	S097/24	FAPM Facilities		31 OCT 2024 - 16 APR 2025	
	S098/24	Interim Kruger Radar Services		04 NOV 2024 - 04 NOV 2026	
	S100/24	Hand Amendments to Charts		31 OCT 2024 - 16 APR 2025	



GEN 0.4 CHECKLIST OF AIP PAGES

	PAGE	DATE		PAGE	DATE
	GEN - (General)		1	0.4-21	15 JAN 25
	<u>GEN 0</u>		I	0.4-22	15 JAN 25
I	0.1-1	15 JAN 25	I	0.4-23	15 JAN 25
I	0.1-2	15 JAN 25	I	0.4-24	15 JAN 25
I	0.1-3	15 JAN 25	I	0.4-25	15 JAN 25
I	0.1-4	15 JAN 25	I	0.4-26	15 JAN 25
	0.2-1	15 APR 16	I	0.4-27	15 JAN 25
	0.2-2	15 APR 16	I	0.4-28	15 JAN 25
I	0.2-3	15 JAN 25	I	0.4-29	15 JAN 25
I	0.2-4	15 JAN 25		0.5-1	15 OCT 23
I	0.3-1	15 JAN 25		0.5-2	15 OCT 23
I	0.3-2	15 JAN 25		0.5-3	15 OCT 23
I	0.4-1	15 JAN 25		0.5-4	15 OCT 23
I	0.4-2	15 JAN 25		0.5-5	15 JAN 24
I	0.4-3	15 JAN 25		0.5-6	15 JAN 24
I	0.4-4	15 JAN 25		0.5-7	15 JAN 24
I	0.4-5	15 JAN 25		0.5-8	15 JAN 24
I	0.4-6	15 JAN 25	I	0.6-1	15 JAN 25
I	0.4-7	15 JAN 25	I	0.6-2	15 JAN 25
I	0.4-8	15 JAN 25	I	0.6-3	15 JAN 25
I	0.4-9	15 JAN 25	I	0.6-4	15 JAN 25
I	0.4-10	15 JAN 25	I	0.6-5	15 JAN 25
I	0.4-11	15 JAN 25		<u>GEN 1</u>	
I	0.4-12	15 JAN 25		1.1-1	15 APR 24
I	0.4-13	15 JAN 25		1.1-2	15 APR 24
I	0.4-14	15 JAN 25		1.1-3	15 OCT 16
I	0.4-15	15 JAN 25		1.2-1	15 JUL 24
I	0.4-16	15 JAN 25		1.2-2	15 JUL 24
I	0.4-17	15 JAN 25		1.2-3	15 JUL 24
I	0.4-18	15 JAN 25		1.2-4	15 JUL 24
I	0.4-19	15 JAN 25		1.2-5	15 JUL 24
I	0.4-20	15 JAN 25		1.2-6	15 JUL 24

Civil Aviation Authority

AMDT 1/25

GEN 0.4-1 15 JAN 25



GEN 0.4-2 15 JAN 25			AIP South Africa
PAGE	DATE	PAGE	DATE
1.3-1	15 OCT 22	1.7-23	15 OCT 23
1.3-2	15 OCT 22	1.7-24	15 OCT 23
1.3-3	15 OCT 22	1.7-25	15 OCT 23
1.3-4	15 OCT 22	<u>GEN 2</u>	
1.4-1	15 JAN 15	2.1-1	15 APR 16
1.4-2	15 JAN 15	2.1-2	15 APR 16
1.5-1	15 JAN 15	2.1-3	15 JAN 25
1.6-1	15 JUL 19	2.1-4	15 JAN 25
1.6-2	15 JUL 19	2.2-1	15 JAN 20
1.6-3	15 JUL 19	2.2-2	15 JAN 20
1.6-4	15 JUL 19	2.2-3	15 JAN 20
1.7-1	15 JAN 23	2.2-4	15 JAN 20
1.7-2	15 JAN 23	2.2-5	15 JAN 23
1.7-3	15 JAN 23	2.2-6	15 JAN 23
1.7-4	15 JAN 23	2.2-7	15 JAN 25
1.7-5	15 OCT 23	2.2-8	15 JAN 25
1.7-6	15 OCT 23	2.2-9	15 JAN 25
1.7-7	15 OCT 23	2.2-10	15 JAN 25
1.7-8	15 OCT 23	2.2-11	15 JAN 25
1.7-9	15 OCT 23	2.2-12	15 JAN 25
1.7-10	15 OCT 23	2.2-13	15 JAN 25
1.7-11	15 OCT 23	2.2-14	15 JAN 25
1.7-12	15 OCT 23	2.2-15	15 JAN 25
1.7-13	15 OCT 23	2.2-16	15 JAN 25
1.7-14	15 OCT 23	2.2-17	15 JAN 25
1.7-15	15 OCT 23	2.2-18	15 JAN 25
1.7-16	15 OCT 23	2.2-19	15 JAN 25
1.7-17	15 OCT 23	2.2-20	15 JAN 25
1.7-18	15 OCT 23	2.2-21	15 JAN 25
1.7-19	15 OCT 23	2.2-22	15 JAN 25
1.7-20	15 OCT 23	2.2-23	15 JAN 25
1.7-21	15 OCT 23	2.2-24	15 JAN 25
1.7-22	15 OCT 23	2.2-25	15 JAN 25

AIP South Africa

GEN 0.4-3 15 JAN 25

PAGE	DATE	PAGE	DATE
2.3-1	15 JUL 19	2.4-9	15 JAN 25
2.3-2	15 JUL 19	2.4-10	15 JAN 25
2.3-3	15 JUL 19	2.5-1	15 OCT 22
2.3-4	15 JUL 19	2.5-2	15 OCT 22
2.3-5	15 JUL 19	2.5-3	15 JAN 23
2.3-6	15 JUL 19	2.5-4	15 JAN 23
2.3-7	15 JUL 19	2.5-5	15 JAN 23
2.3-8	15 JUL 19	2.5-6	15 JAN 23
2.3-9	15 JUL 19	2.5-7	15 APR 23
2.3-10	15 JUL 19	2.5-8	15 APR 23
2.3-11	15 JUL 19	2.6-1	15 JUL 17
2.3-12	15 JUL 19	2.6-2	15 JUL 17
2.3-13	15 JUL 19	2.7-1	15 JUL 17
2.3-14	15 JUL 19	2.7-2	15 JUL 17
2.3-15	15 JUL 19	2.7-3	15 JUL 17
2.3-16	15 JUL 19	2.7-4	15 JUL 17
2.3-17	15 JUL 19	2.7-5	15 JUL 17
2.3-18	15 JUL 19	<u>GEN 3</u>	
2.3-19	15 JUL 19	3.1-1	15 JAN 23
2.3-20	15 JUL 19	3.1-2	15 JAN 23
2.3-21	15 JUL 19	3.1-3	15 JAN 22
2.3-22	15 JUL 19	3.1-4	15 JAN 22
2.3-23	15 JUL 19	3.1-5	15 OCT 19
2.3-24	15 JUL 19	3.1-6	15 OCT 19
2.3-25	15 JUL 19	3.1-7	15 JAN 24
2.4-1	15 JAN 25	3.1-8	15 JAN 24
2.4-2	15 JAN 25	3.2-1	15 JAN 24
2.4-3	15 JAN 25	3.2-2	15 JAN 24
2.4-4	15 JAN 25	3.2-3	15 JAN 24
2.4-5	15 JAN 25	3.2-4	15 JAN 24
2.4-6	15 JAN 25	3.2-5	15 APR 24
2.4-7	15 JAN 25	3.2-6	15 APR 24
2.4-8	15 JAN 25	3.2-7	15 JAN 25



GEN 0.4-4 15 JAN 25			AIP South Afric
PAGE	DATE	PAGE	DATE
3.2-8	15 JAN 25	3.5-5	15 JUL 17
3.2-9	15 JUL 24	3.5-6	15 JUL 17
3.2-10	15 JUL 24	3.5-7	15 JUL 17
3.2-11	15 JAN 25	3.5-8	15 JUL 17
3.2-12	15 JAN 25	3.5-9	15 OCT 22
3.2-13	15 OCT 24	3.5-10	15 OCT 22
3.2-14	15 OCT 24	3.5-11	15 JUL 17
3.2-15	15 JUL 24	3.5-12	15 JUL 17
3.2-16	15 JUL 24	3.6-1	15 JAN 21
3.2-17	15 APR 18	3.6-2	15 JAN 21
3.3-1	15 JAN 15	3.6-3	15 JAN 21
3.3-2	15 JAN 15	3.6-4	15 JAN 21
3.3-3	15 OCT 22	3.6-5	15 JAN 21
3.3-4	15 OCT 22	3.6-6	15 JAN 21
3.3-5	15 OCT 22	3.6-7	15 JAN 21
3.3-6	15 OCT 22	3.6-8	15 JAN 21
3.3-7	15 JAN 15	3.6-9	15 JUL 23
3.3-8	15 JAN 15	3.6-10	15 JUL 23
3.3-9	15 JAN 15	3.6-11	15 JUL 23
3.4-1	15 OCT 16	3.6-12	15 JUL 23
3.4-2	15 OCT 16	3.6-13	15 JAN 21
3.4-3	15 OCT 16	3.6-14	15 JAN 21
3.4-4	15 OCT 16	3.6-15	15 JAN 21
3.4-5	15 OCT 16	3.6-16	15 JAN 21
3.4-6	15 OCT 16	3.6-17	15 OCT 24
3.4-7	15 OCT 16	3.6-18	15 OCT 24
3.4-8	15 OCT 16	3.6-19	15 OCT 24
3.4-9	15 OCT 16	<u>GEN 4</u>	
3.4-10	15 OCT 16	4.1-1	15 JUL 19
3.5-1	15 JUL 17	4.2-1	15 APR 19
3.5-2	15 JUL 17	4.2-2	15 APR 19
3.5-3	15 JUL 17	4.2-3	15 APR 19
3.5-4	15 JUL 17	4.2-4	15 APR 19

AIP South Africa

GEN 0.4-5 15 JAN 25

PAGE	DATE	PAGE	DATE
4.2-5	15 APR 19	1.3-16	15 JAN 15
4.2-6	15 APR 19	1.3-17	15 JAN 15
4.2-7	15 APR 19	1.3-18	15 JAN 15
ENR - (En-Route)		1.3-19	15 JAN 15
<u>ENR 0</u>		1.3-20	15 JAN 15
0.6-1	15 JAN 24	1.3-21	15 JAN 15
0.6-2	15 JAN 24	1.3-22	15 JAN 15
0.6-3	15 JAN 25	1.3-23	15 JAN 15
0.6-4	15 JAN 25	1.3-24	15 JAN 15
0.6-5	15 JAN 25	1.3-25	15 JUL 23
<u>ENR 1</u>		1.3-26	15 JUL 23
1.1-1	15 JAN 21	1.3-27	15 JAN 15
1.1-2	15 JAN 21	1.3-28	15 JAN 15
1.1-3	15 JAN 21	1.3-29	15 APR 22
1.2-1	15 JAN 24	1.3-30	15 APR 22
1.2-2	15 JAN 24	1.3-31	15 JAN 15
1.2-3	15 JAN 24	1.4-1	15 OCT 18
1.2-4	15 JAN 24	1.4-2	15 OCT 18
1.3-1	15 JAN 15	1.4-3	15 OCT 18
1.3-2	15 JAN 15	1.5-1	15 OCT 22
1.3-3	15 JAN 15	1.5-2	15 OCT 22
1.3-4	15 JAN 15	1.5-3	15 APR 15
1.3-5	15 JAN 15	1.5-4	15 APR 15
1.3-6	15 JAN 15	1.5-5	15 APR 15
1.3-7	15 JAN 15	1.5-6	15 APR 15
1.3-8	15 JAN 15	1.5-7	15 JUL 22
1.3-9	15 JAN 15	1.5-8	15 JUL 22
1.3-10	15 JAN 15	1.5-9	15 APR 24
1.3-11	15 JAN 15	1.5-10	15 APR 24
1.3-12	15 JAN 15	1.5-11	15 APR 24
1.3-13	15 JAN 15	1.5-12	15 APR 24
1.3-14	15 JAN 15	1.5-13	15 APR 24
1.3-15	15 JAN 15	1.5-14	15 APR 24

Civil Aviation Authority



GEN 0.4-6 15 JAN 25			AIP South Africa
PAGE	DATE	PAGE	DATE
1.5-15	15 APR 22	1.5-48	15 OCT 22
1.5-16	15 APR 22	1.5-49	15 OCT 22
1.5-17	15 APR 22	1.5-50	15 OCT 22
1.5-18	15 APR 22	1.5-51	15 OCT 22
1.5-19	15 APR 22	1.6-1	15 OCT 22
1.5-20	15 APR 22	1.6-2	15 OCT 22
1.5-21	15 APR 22	1.6-3	15 OCT 22
1.5-22	15 APR 22	1.6-4	15 OCT 22
1.5-23	15 APR 22	1.6-5	15 JUL 22
1.5-24	15 APR 22	1.6-6	15 JUL 22
1.5-25	15 APR 22	1.6-7	15 JUL 22
1.5-26	15 APR 22	1.6-8	15 JUL 22
1.5-27	15 APR 22	1.6-9	15 JUL 22
1.5-28	15 APR 22	1.7-1	15 OCT 22
1.5-29	15 JAN 23	1.7-2	15 OCT 22
1.5-30	15 JAN 23	1.7-3	15 OCT 22
1.5-31	15 APR 22	1.7-4	15 OCT 22
1.5-32	15 APR 22	1.7-5	15 APR 16
1.5-33	15 JUL 22	1.7-6	15 APR 16
1.5-34	15 JUL 22	1.7-7	15 APR 16
1.5-35	15 JUL 22	1.7-8	15 APR 16
1.5-36	15 JUL 22	1.8-1	15 OCT 16
1.5-37	15 JUL 22	1.8-2	15 OCT 16
1.5-38	15 JUL 22	1.8-3	15 JUL 22
1.5-39	15 JUL 22	1.8-4	15 JUL 22
1.5-40	15 JUL 22	1.8-5	15 OCT 16
1.5-41	15 OCT 22	1.8-6	15 OCT 16
1.5-42	15 OCT 22	1.8-7	15 OCT 16
1.5-43	15 OCT 22	1.8-8	15 OCT 16
1.5-44	15 OCT 22	1.8-9	15 OCT 16
1.5-45	15 OCT 22	1.8-10	15 OCT 16
1.5-46	15 OCT 22	1.8-11	15 OCT 16
1.5-47	15 OCT 22	1.8-12	15 OCT 16

AIP South Africa

GEN 0.4-7 15 JAN 25

PAGE	DATE	PAGE	DATE
1.8-13	15 OCT 16	1.10-3	15 OCT 23
1.8-14	15 OCT 16	1.10-4	15 OCT 23
1.8-15	15 JUL 24	1.10-5	15 OCT 23
1.8-16	15 JUL 24	1.10-6	15 OCT 23
1.8-17	15 OCT 16	1.11-1	15 OCT 22
1.8-18	15 OCT 16	1.11-2	15 OCT 22
1.8-19	15 JUL 24	1.12-1	15 JAN 22
1.8-20	15 JUL 24	1.12-2	15 JAN 22
1.8-21	15 JAN 17	1.12-3	15 JAN 22
1.8-22	15 JAN 17	1.13-1	15 JAN 18
1.8-23	15 OCT 21	1.13-2	15 JAN 18
1.8-24	15 OCT 21	1.13-3	15 JAN 18
1.8-25	15 OCT 21	1.14-1	15 JAN 25
1.8-26	15 OCT 21	1.14-2	15 JAN 25
1.8-27	15 OCT 21	1.14-3	15 JAN 25
1.8-28	15 OCT 21	1.14-4	15 JAN 25
1.8-29	15 JUL 20	1.14-5	15 JAN 25
1.8-30	15 JUL 20	1.14-6	15 JAN 25
1.8-31	15 OCT 20	1.14-7	15 JAN 25
1.9-1	15 JUL 23	ENR 2	
1.9-2	15 JUL 23	2.1-1	15 JAN 24
1.9-3	15 JUL 23	2.1-2	15 JAN 24
1.9-4	15 JUL 23	2.1-3	15 APR 20
1.9-5	15 JUL 23	2.1-4	15 APR 20
1.9-6	15 JUL 23	2.1-5	15 OCT 23
1.9-7	15 JUL 23	2.1-6	15 OCT 23
1.9-8	15 JUL 23	2.1-7	15 OCT 23
1.9-9	15 APR 22	2.1-8	15 OCT 23
1.9-10	15 APR 22	2.1-9	15 JUL 20
1.9-11	15 APR 22	2.1-10	15 JUL 20
1.9-12	15 APR 22	2.1-11	15 JUL 20
1.10-1	15 OCT 23	2.1-12	15 JUL 20
1.10-2	15 OCT 23	2.1-13	15 JUL 20



GEN 0.4-8 15 JAN 25			AIP South Afric
PAGE	DATE	PAGE	DATE
2.1-14	15 JUL 20	2.2-2	15 JUL 16
2.1-15	15 JUL 22	2.2-3	15 APR 17
2.1-16	15 JUL 22	2.2-4	15 APR 17
2.1-17	15 JUL 22	2.2-5	15 JAN 15
2.1-18	15 JUL 22	2.2-6	15 JAN 15
2.1-19	15 APR 20	2.2-7	15 JAN 15
2.1-20	15 APR 20	2.2-8	15 JAN 15
2.1-21	15 JUL 20	2.2-9	15 JAN 21
2.1-22	15 JUL 20	2.2-10	15 JAN 21
2.1-23	15 JUL 20	2.2-11	15 JAN 15
2.1-24	15 JUL 20	2.2-12	15 JAN 15
2.1-25	15 JAN 23	2.2-13	15 JUL 23
2.1-26	15 JAN 23	2.2-14	15 JUL 23
2.1-27	15 JAN 23	2.2-15	15 JUL 23
2.1-28	15 JAN 23	2.2-16	15 JUL 23
2.1-29	15 APR 20	2.2-17	15 JUL 23
2.1-30	15 APR 20	2.2-18	15 JUL 23
2.1-31	15 OCT 21	2.2-19	15 JUL 23
2.1-32	15 OCT 21	2.2-20	15 JUL 23
2.1-33	15 JAN 20	2.2-21	15 OCT 23
2.1-34	15 JAN 20	2.2-22	15 OCT 23
2.1-35	15 JAN 20	2.2-23	15 OCT 23
2.1-36	15 JAN 20	2.2-24	15 OCT 23
2.1-37	15 JUL 20	2.2-25	15 JUL 23
2.1-38	15 JUL 20	2.2-26	15 JUL 23
2.1-39	15 JAN 20	2.2-27	15 JUL 23
2.1-40	15 JAN 20	2.2-28	15 JUL 23
2.1-41	15 JUL 20	2.2-29	15 JUL 23
2.1-42	15 JUL 20	2.2-30	15 JUL 23
2.1-43	15 APR 20	2.2-31	15 JUL 23
2.1-44	15 APR 20	2.2-32	15 JUL 23
2.1-45	15 JAN 20	2.2-33	15 JUL 23
2.2-1	15 JUL 16	2.2-34	15 JUL 23

AIP South Africa

GEN 0.4-9 15 JAN 25

PAGE	DATE	PAGE	DATE
2.2-35	15 JUL 23	3.1-11	15 JAN 23
2.2-36	15 JUL 23	3.1-12	15 JAN 23
2.2-37	15 JUL 23	3.1-13	15 JAN 23
2.2-38	15 JUL 23	3.1-14	15 JAN 23
2.2-39	15 JUL 23	3.2-1	15 APR 23
2.2-40	15 JUL 23	3.2-2	15 APR 23
2.2-41	15 JUL 23	3.2-3	15 APR 23
2.2-42	15 JUL 23	3.2-4	15 APR 23
2.2-43	15 JUL 23	3.2-5	15 JAN 23
2.2-44	15 JUL 23	3.2-6	15 JAN 23
2.2-45	15 JUL 23	3.2-7	15 JAN 23
2.2-46	15 JUL 23	3.2-8	15 JAN 23
2.2-47	15 JUL 23	3.2-9	15 JAN 23
2.2-48	15 JUL 23	3.2-10	15 JAN 23
2.2-49	15 JUL 23	3.2-11	15 JAN 23
2.2-50	15 JUL 23	3.2-12	15 JAN 23
2.2-51	15 JUL 24	3.3-1	15 APR 16
2.2-52	15 JUL 24	3.3-2	15 APR 16
2.2-53	15 APR 24	3.3-3	15 OCT 19
2.2-54	15 APR 24	3.3-4	15 OCT 19
2.2-55	15 APR 24	3.3-5	15 APR 16
2.2-56	15 APR 24	3.3-6	15 APR 16
<u>ENR 3</u>		3.3-7	15 APR 16
3.1-1	15 APR 23	3.3-8	15 APR 16
3.1-2	15 APR 23	3.3-9	15 APR 16
3.1-3	15 APR 23	3.3-10	15 APR 16
3.1-4	15 APR 23	3.3-11	15 OCT 18
3.1-5	15 JAN 23	3.3-12	15 OCT 18
3.1-6	15 JAN 23	3.3-13	15 OCT 17
3.1-7	15 JAN 23	3.3-14	15 OCT 17
3.1-8	15 JAN 23	3.3-15	15 OCT 17
3.1-9	15 JAN 23	3.3-16	15 OCT 17
3.1-10	15 JAN 23	3.3-17	15 OCT 17



GEN 0.4-10 15 JAN 25			AIP South Afric
PAGE	DATE	PAGE	DATE
3.3-18	15 OCT 17	3.3-51	15 JUL 18
3.3-19	15 OCT 17	3.3-52	15 JUL 18
3.3-20	15 OCT 17	3.3-53	15 OCT 20
3.3-21	15 OCT 17	3.3-54	15 OCT 20
3.3-22	15 OCT 17	3.3-55	15 OCT 17
3.3-23	15 OCT 17	3.3-56	15 OCT 17
3.3-24	15 OCT 17	3.3-57	15 OCT 17
3.3-25	15 OCT 17	3.3-58	15 OCT 17
3.3-26	15 OCT 17	3.3-59	15 OCT 17
3.3-27	15 OCT 17	3.3-60	15 OCT 17
3.3-28	15 OCT 17	3.3-61	15 OCT 17
3.3-29	15 OCT 17	3.3-62	15 OCT 17
3.3-30	15 OCT 17	3.3-63	15 OCT 22
3.3-31	15 OCT 17	3.3-64	15 OCT 22
3.3-32	15 OCT 17	3.3-65	15 OCT 17
3.3-33	15 OCT 17	3.3-66	15 OCT 17
3.3-34	15 OCT 17	3.3-67	15 OCT 18
3.3-35	15 OCT 17	3.3-68	15 OCT 18
3.3-36	15 OCT 17	3.3-69	15 JAN 20
3.3-37	15 OCT 20	3.3-70	15 JAN 20
3.3-38	15 OCT 20	3.3-71	15 OCT 17
3.3-39	15 OCT 17	3.3-72	15 OCT 17
3.3-40	15 OCT 17	3.3-73	15 OCT 17
3.3-41	15 OCT 17	3.3-74	15 OCT 17
3.3-42	15 OCT 17	3.3-75	15 OCT 17
3.3-43	15 OCT 17	3.3-76	15 OCT 17
3.3-44	15 OCT 17	3.3-77	15 OCT 17
3.3-45	15 OCT 20	3.3-78	15 OCT 17
3.3-46	15 OCT 20	3.3-79	15 OCT 17
3.3-47	15 OCT 17	3.3-80	15 OCT 17
3.3-48	15 OCT 17	3.3-81	15 OCT 17
3.3-49	15 JUL 18	3.3-82	15 OCT 17
3.3-50	15 JUL 18	3.3-83	15 OCT 18

AIP South Africa

GEN	0.4-	11
15	JAN	25

PAGE	DATE	PAGE	DATE
3.3-84	15 OCT 18	3.6-8	15 JAN 25
3.3-85	15 OCT 18	ENR 4	
3.3-86	15 OCT 18	4.1-1	15 JAN 23
3.3-87	15 OCT 18	4.1-2	15 JAN 23
3.3-88	15 OCT 18	4.1-3	15 JAN 23
3.3-89	15 OCT 18	4.2-1	15 JUL 07
3.3-90	15 OCT 18	4.3-1	15 JUL 07
3.3-91	15 OCT 18	4.4-1	15 JAN 25
3.3-92	15 OCT 18	4.4-2	15 JAN 25
3.3-93	15 OCT 18	4.4-3	15 JAN 25
3.3-94	15 OCT 18	4.4-4	15 JAN 25
3.3-95	15 OCT 18	4.4-5	15 JAN 25
3.3-96	15 OCT 18	4.4-6	15 JAN 25
3.3-97	15 OCT 18	4.4-7	15 JAN 25
3.3-98	15 OCT 18	4.4-8	15 JAN 25
3.3-99	15 OCT 18	4.4-9	15 JAN 25
3.3-100	15 OCT 18	4.5-1	15 JUL 07
3.3-101	15 OCT 18	ENR 5	
3.4-1	15 APR 18	5.1-1	15 APR 16
3.4-2	15 APR 18	5.1-2	15 APR 16
3.4-3	15 APR 18	5.1-3	15 APR 16
3.4-4	15 APR 18	5.1-4	15 APR 16
3.4-5	15 APR 18	5.1-5	15 APR 16
3.5-1	15 OCT 14	5.1-6	15 APR 16
3.5-2	15 OCT 14	5.1-7	15 APR 16
3.5-3	15 OCT 14	5.1-8	15 JAN 25
3.6-1	15 OCT 22	5.1-9	15 JAN 25
3.6-2	15 OCT 22	5.1-10	15 JAN 25
3.6-3	15 JAN 25	5.1-11	15 JAN 25
3.6-4	15 JAN 25	5.1-12	15 JAN 25
3.6-5	15 JAN 25	5.1-13	15 JAN 25
3.6-6	15 JAN 25	5.1-14	15 JAN 25
3.6-7	15 JAN 25	5.1-15	15 JAN 25



GEN 0.4-12 15 JAN 25			AIP South Afric
PAGE	DATE	PAGE	DATE
5.1-16	15 JAN 25	5.4-1	15 JAN 23
5.1-17	15 JAN 25	5.5-1	15 OCT 24
5.1-18	15 JAN 25	5.5-2	15 OCT 24
5.1-19	15 JAN 25	5.5-3	15 OCT 24
5.1-20	15 JAN 25	5.5-4	15 OCT 24
5.1-21	15 JAN 25	5.5-5	15 OCT 24
5.1-22	15 JAN 25	5.5-6	15 OCT 24
5.1-23	15 JAN 25	5.5-7	15 OCT 24
5.1-24	15 JAN 25	5.5-8	15 OCT 24
5.1-25	15 JAN 25	5.5-9	15 OCT 24
5.1-26	15 JAN 25	5.5-10	15 OCT 24
5.1-27	15 JAN 25	5.5-11	15 OCT 24
5.1-28	15 JAN 25	5.5-12	15 OCT 24
5.1-29	15 JAN 25	5.5-13	15 OCT 24
5.1-30	15 JAN 25	5.5-14	15 OCT 24
5.1-31	15 JAN 25	5.5-15	15 OCT 24
5.1-32	15 JAN 25	5.5-16	15 OCT 24
5.1-33	15 JAN 25	5.5-17	15 OCT 24
5.1-34	15 JAN 25	5.5-18	15 OCT 24
5.1-35	15 JAN 25	5.5-19	15 OCT 24
5.1-36	15 JAN 25	5.5-20	15 OCT 24
5.1-37	15 JAN 25	5.5-21	15 OCT 24
5.1-38	15 JAN 25	5.5-22	15 OCT 24
5.1-39	15 JAN 25	5.5-23	15 OCT 24
5.1-40	15 JAN 25	5.5-24	15 OCT 24
5.1-41	15 JAN 25	5.5-25	15 OCT 24
5.1-42	15 JAN 25	5.5-26	15 OCT 24
5.1-43	15 JAN 25	5.5-27	15 OCT 24
5.1-44	15 JAN 25	5.5-28	15 OCT 24
5.1-45	15 JAN 25	5.5-29	15 OCT 24
5.1-46	15 JAN 25	5.5-30	15 OCT 24
5.2-1	15 JUL 07	5.5-31	15 OCT 24
5.3-1	15 OCT 24	5.5-32	15 OCT 24

AIP South Africa

GEN 0.4-13 15 JAN 25

PAGE	DATE	PAGE	DATE
5.5-33	15 OCT 24	1.3-1	15 OCT 22
5.5-34	15 OCT 24	1.3-2	15 OCT 22
5.5-35	15 OCT 24	1.4-1	15 OCT 17
5.5-36	15 OCT 24	<u>AD 2</u>	
5.5-37	15 OCT 24	ALEXANDER BAY	
5.5-38	15 OCT 24	FAAB-1	15 OCT 22
5.5-39	15 OCT 24	FAAB-2	15 OCT 22
5.5-40	15 OCT 24	FAAB-3	15 OCT 18
5.5-41	15 OCT 24	FAAB-4	15 OCT 18
5.5-42	15 OCT 24	FAAB-5	15 OCT 20
5.5-43	15 OCT 24	FAAB-6	15 OCT 20
5.5-44	15 OCT 24	FAAB-7	15 JUL 24
5.5-45	15 OCT 24	FAAB-8	15 JUL 24
5.5-46	15 OCT 24	AD-01	15 MAR 07
5.5-47	15 OCT 24	VOR-01	15 MAR 07
5.5-48	15 OCT 24	VOR-02	15 MAR 07
5.5-49	15 OCT 24	BRAKPAN BENONI	
5.5-50	15 OCT 24	FABB-1	15 JUL 23
5.5-51	15 OCT 24	FABB-2	15 JUL 23
5.5-52	15 OCT 24	FABB-3	15 JUL 23
5.6-1	15 JUL 07	FABB-4	15 JUL 23
AD - (Aerodromes)		FABB-5	15 JUL 23
<u>AD 0</u>		FABB-6	15 JUL 23
0.6-1	15 JUL 24	FABB-7	15 JUL 23
0.6-2	15 JUL 24	FABB-8	15 JUL 23
0.6-3	15 JUL 24	BHISHO	
<u>AD 1</u>		FABE-1	15 OCT 22
1.1-1	15 OCT 16	FABE-2	15 OCT 22
1.1-2	15 OCT 16	FABE-3	15 JAN 15
1.1-3	15 OCT 16	FABE-4	15 JAN 15
1.1-4	15 OCT 16	FABE-5	15 OCT 24
1.1-5	15 OCT 16	FABE-6	15 OCT 24
1.2-1	15 JUL 07		

GEN 0.4-14 15 JAN 25



PAGE	DATE	PAGE	DATE
FABE-7	15 OCT 24	RNAV-02A	30 MAR 17
FABE-8	15 OCT 24	BETHLEHEM	
AD-01	06 DEC 18	FABM-1	15 APR 23
BRAM FISCHER INTERNA	TIONAL	FABM-2	15 APR 23
FABL-1	15 JAN 24	FABM-3	15 OCT 17
FABL-2	15 JAN 24	FABM-4	15 OCT 17
FABL-3	15 APR 23	FABM-5	15 OCT 20
FABL-4	15 APR 23	FABM-6	15 OCT 20
FABL-5	15 JUL 21	FABM-7	15 APR 22
FABL-6	15 JUL 21	AD-01	07 JUN 07
FABL-7	15 JUL 20	KAROO GATEWAY	
FABL-8	15 JUL 20	FABW-1	15 JAN 23
FABL-9	15 JUL 20	FABW-2	15 JAN 23
FABL-10	15 JUL 20	FABW-3	15 APR 22
FABL-11	15 OCT 20	FABW-4	15 APR 22
FABL-12	15 OCT 20	FABW-5	15 APR 22
FABL-13	15 JAN 23	FABW-6	15 APR 22
FABL-14	15 JAN 23	FABW-7	15 APR 22
FABL-15	15 APR 23	FABW-8	15 APR 22
FABL-16	15 APR 23	ST FRANCIS FIELD	
AD-01	08 NOV 18	FACF-1	15 JAN 20
AD-02	13 NOV 14	FACF-2	15 JAN 20
AD-03	05 JAN 17	FACF-3	15 APR 19
VOR-01	11 DEC 14	FACF-4	15 APR 19
VOR-02	11 DEC 14	FACF-5	15 OCT 20
RAD-01	18 MAY 23	FACF-6	15 OCT 20
ARR-01	30 MAR 17	FACF-7	15 JUL 19
ARR-01A	30 MAR 17	AD-01	06 DEC 18
DEP-01	30 MAR 17	RNAV-01	13 SEP 18
DEP-01A	30 MAR 17	RNAV-01A	13 SEP 18
RNAV-01	30 MAR 17	RNAV-02	13 SEP 18
RNAV-01A	30 MAR 17	RNAV-02A	13 SEP 18
RNAV-02	30 MAR 17	ALKANTPAN TEST RANG	E

AIP S	outh Africa

GEN 0.4-15 15 JAN 25

PAGE	DATE	PAGE	DATE
FACO-1	15 JUL 21	ILS-01A	15 JUN 23
FACO-2	15 JUL 21	ILS-02	15 JUN 23
FACO-3	15 JUL 21	ILS-02A	15 JUN 23
FACO-4	15 JUL 21	VOR-01	03 JAN 19
FACO-5	15 JUL 21	ARR-01	03 JAN 19
FACO-6	15 JUL 21	ARR-02	03 JAN 19
FACO-7	15 JUL 21	ARR-04	10 MAY 07
CAPE TOWN INTER	RNATIONAL	ARR-06	03 JAN 19
FACT-1	15 OCT 22	ARR-07	03 JAN 19
FACT-2	15 OCT 22	ARR-08	10 MAY 07
FACT-3	15 JAN 25	DEP-02	03 JAN 19
FACT-4	15 JAN 25	DEP-03	10 MAY 07
FACT-5	15 APR 20	DEP-05	03 JAN 19
FACT-6	15 APR 20	DEP-06	03 JAN 19
FACT-7	15 JAN 25	DEP-08	10 MAY 07
FACT-8	15 JAN 25	DEP-09	03 JAN 19
FACT-9	15 APR 22	DEP-10	03 JAN 19
FACT-10	15 APR 22	RNAV-01	23 MAY 19
FACT-11	15 JUL 20	RNAV-01A	12 OCT 17
FACT-12	15 JUL 20	RNAV-02	23 MAY 19
FACT-13	15 JUL 22	RNAV-02A	12 OCT 17
FACT-14	15 JUL 22	RNAV-03	03 JAN 19
FACT-15	15 JAN 25	RNAV-03A	12 OCT 17
FACT-16	15 JAN 25	RNAV-04	23 MAY 19
FACT-17	15 APR 19	RNAV-04A	09 NOV 17
AD-01	20 JUN 19	RNAV-05	23 MAY 19
AD-02	15 JUN 23	RNAV-05A	26 MAR 20
AD-03	15 JUN 23	RNAV-06	24 MAY 18
AD-04	15 JUN 23	RNAV-06A	01 FEB 18
AD-05	13 JUL 23	RAD-01	11 JUL 24
AD-06	13 JUL 23	KING PHALO	
AD-07	08 MAR 12	FAEL-1	15 OCT24
ILS-01	15 JUN 23	FAEL-2	15 OCT24

Civil Aviation Authority



PAGE	DATE	PAGE	DATE
FAEL-3	15 OCT24	RNAV-01A	01 MAR 18
FAEL-4	15 OCT24	RNAV-02	01 MAR 18
FAEL-5	15 APR 23	RNAV-02A	01 MAR 18
FAEL-6	15 APR 23	GRAND CENTRAL	
FAEL-7	15 JUL 24	FAGC-1	15 OCT 24
FAEL-8	15 JUL 24	FAGC-2	15 OCT 24
FAEL-9	15 OCT 24	FAGC-3	15 OCT 24
FAEL-10	15 OCT 24	FAGC-4	15 OCT 24
FAEL-11	15 APR 23	FAGC-5	15 JUL 21
FAEL-12	15 APR 23	FAGC-6	15 JUL 21
FAEL-13	15 APR 23	FAGC-7	15 APR 22
AD-01	18 APR 24	FAGC-8	15 APR 22
AD-02	08 DEC 16	FAGC-9	15 JAN 23
ILS-01	03 JUL 08	AD-01	18 JUL 19
ILS-03	03 JUL 08	AD-02	08 APR 10
VOR-01	03 JUL 08	GEORGE	
VOR-02	03 JUL 08	FAGG-1	15 OCT 23
VOR-03	03 JUL 08	FAGG-2	15 OCT 23
RAD-01	08 SEP 22	FAGG-3	15 OCT 23
RNAV-01	11 OCT 18	FAGG-4	15 OCT 23
RNAV-01A	20 JUL 17	FAGG-5	15 OCT 23
RNAV-02	20 JUL 17	FAGG-6	15 OCT 23
RNAV-02A	20 JUL 17	FAGG-7	15 JAN 22
FORT BEAUFORT		FAGG-8	15 JAN 22
FAFO-1	15 JAN 20	FAGG-9	15 OCT 23
FAFO-2	15 JAN 20	FAGG-10	15 OCT 23
FAFO-3	15 APR 18	FAGG-11	15 OCT 23
FAFO-4	15 APR 18	FAGG-12	15 OCT 23
FAFO-5	15 OCT 20	AD-01	11 OCT 18
FAFO-6	15 OCT 20	AD-02	24 MAY 18
FAFO-7	15 APR 18	AD-03	24 MAY 18
AD-01	11 OCT 18	ARR-02	24 MAY 18
RNAV-01	01 MAR 18	ARR-02A	24 MAY 18

GEN 0.4-16 15 JAN 25

AIP South Africa

GEN	10	.4-	17
1	5 J	AN	25

	PAGE	DATE	PAGE	DATE
	ARR-03	24 MAY 18	FAGR-5	15 JAN 21
	ARR-03A	24 MAY 18	FAGR-6	15 JAN 21
	ARR-04	24 MAY 18	FAGR-7	15 APR 21
	ARR-04A	24 MAY 18	AD-01	12 AUG 21
	ARR-05	24 MAY 18	RNAV-01	25 FEB 21
	ARR-05A	24 MAY 18	RNAV-01A	25 FEB 21
	ILS-01	26 MAY 16	GREYTOWN	
I	ILS-02	03 OCT 24	FAGY-1	15 APR 24
I	ILS-02A	03 OCT 24	FAGY-2	15 APR 24
	VOR-01	01 MAY 14	FAGY-3	15 APR 15
	VOR-02	01 MAY 14	FAGY-4	15 APR 15
	RAD-01	10 JAN 13	FAGY-5	15 APR 24
	RNAV-01	01 FEB 18	FAGY-6	15 APR 24
	RNAV-01A	29 MAR 18	FAGY-7	15 JAN 20
	RNAV-02	29 MAR 18	AD-01	12 AUG 21
	RNAV-02A	29 MAR 18	VOR-01	28 MAR 19
	RAND/JOHANNESBURG		RNAV-01	23 MAY 19
	FAGM-1	15 JAN 23	RNAV-01A	23 MAY 19
	FAGM-2	15 JAN 23	HEIDELBERG	
	FAGM-3	15 JAN 23	FAHG-1	15 JAN 20
	FAGM-4	15 JAN 23	FAHG-2	15 JAN 20
	FAGM-5	15 JAN 22	FAHG-3	15 APR 24
	FAGM-6	15 JAN 22	FAHG-4	15 APR 24
	FAGM-7	15 APR 22	FAHG-5	15 APR 24
	FAGM-8	15 APR 22	FAHG-6	15 APR 24
	FAGM-9	15 JAN 22	FAHG-7	15 OCT 16
	AD-01	11 OCT 18	FAHG-8	15 OCT 16
	AD-02	14 JAN 10	HLUHLUWE	
	GRAAFF-REINET		FAHL-1	15 JAN 22
	FAGR-1	15 APR 23	FAHL-2	15 JAN 22
	FAGR-2	15 APR 23	FAHL-3	15 JAN 20
	FAGR-3	15 JAN 21	FAHL-4	15 JAN 20
	FAGR-4	15 JAN 21	FAHL-5	15 OCT 20

Civil Aviation Authority



		AIP South Africa
DATE	PAGE	DATE
15 OCT 20	FAKM-11	15 JUL 23
15 OCT 20	AD-01	25 FEB 21
08 JUL 04	AD-02	15 NOV 12
	AD-03	08 SEP 22
15 JUL 20	VOR-01	12 DEC 13
15 JUL 20	VOR-02	12 DEC 13
15 JUL 20	ARR-01	25 MAY 17
15 JUL 20	ARR-01A	25 MAY 17
15 OCT 20	ARR-02	13 AUG 20
15 OCT 20	ARR-02A	13 AUG 20
15 APR 22	ARR-03	13 AUG 20
15 APR 22	ARR-03A	13 AUG 20
15 JAN 23	DEP-01	25 MAY 17
08 JUL 04	DEP-01A	25 MAY 17
	DEP-02	13 AUG 20
15 OCT 20	DEP-02A	13 AUG 20
15 OCT 20	DEP-03	13 AUG 20
15 OCT 20	DEP-03A	13 AUG 20
15 OCT 20	RNAV-01	22 JUN 17
15 OCT 20	RNAV-01A	22 JUN 17
15 OCT 20	RNAV-02	22 JUN 17
15 OCT 20	RNAV-02A	22 JUN 17
	KRUGER MPUMAL	ANGA INTERNATIONAL
15 JUL 24	FAKN-1	15 JAN 25
15 JUL 24	FAKN-2	15 JAN 25
15 JUL 23	FAKN-3	15 JAN 25
15 JUL 23	FAKN-4	15 JAN 25
15 JUL 23	FAKN-5	15 APR 22
15 JUL 23	FAKN-6	15 APR 22
15 JUL 23	FAKN-7	15 JAN 23
15 JUL 23	FAKN-8	15 JAN 23
15 JUL 24	FAKN-9	15 OCT 24
15 JUL 24	AD-01	31 DEC 20
	DATE 15 OCT 20 15 OCT 20 08 JUL 04 15 JUL 20 15 JUL 20 15 JUL 20 15 JUL 20 15 JUL 20 15 OCT 20 15 OCT 20 15 APR 22 15 APR 22 15 APR 22 15 JAN 23 08 JUL 04 15 OCT 20 15 JUL 24 15 JUL 23 15 JUL 23 15 JUL 23 15 JUL 23 15 JUL 23 15 JUL 23 15 JUL 23	DATE PAGE 15 OCT 20 FAKM-11 15 OCT 20 AD-01 08 JUL 04 AD-02 08 JUL 20 VOR-01 15 JUL 20 VOR-02 15 JUL 20 VOR-02 15 JUL 20 VOR-02 15 JUL 20 ARR-01 15 OCT 20 ARR-02 15 APR 22 ARR-03 15 APR 22 ARR-03 15 JAN 23 DEP-01 08 JUL 04 DEP-02 15 OCT 20 DEP-03A 15 OCT 20 RNAV-01A 15 OCT 20 RNAV-01A 15 OCT 20 RNAV-02 15 OCT 20 RNAV-02 15 OCT 20 RNAV-02A KRUGER MPUMAL FAKN-1 15 JUL 24 FAKN-3 15 JUL 23 FAKN-3 15 JUL 23 FAKN-6



GEN 0.4-19 15 JAN 25

PAGE	DATE	PAGE	DATE
AD-02	08 JUL 04	RNAV-01	18 AUG 16
ILS-01	23 APR 20	RNAV-01A	15 JUL 21
ILS-02	23 APR 20	RNAV-02	24 MAY 18
VOR-01	19 JUL 18	RNAV-02A	24 MAY 18
VOR-02	19 JUL 18	ILS-01	23 APR 20
RNAV-01	08 OCT 20	ILS-01A	23 APR 20
RNAV-01A	08 OCT 20	KING SHAKA INTER	NATIONAL
ARR-01	20 MAY 21	FALE-1	15 JAN 24
ARR-01A	20 MAY 21	FALE-2	15 JAN 24
KRUGERSDORP		FALE-3	15 JAN 24
FAKR-1	15 OCT 22	FALE-4	15 JAN 24
FAKR-2	15 OCT 22	FALE-5	15 JAN 15
FAKR-3	15 OCT 22	FALE-6	15 JAN 15
FAKR-4	15 OCT 22	FALE-7	15 APR 21
FAKR-5	15 OCT 22	FALE-8	15 APR 21
FAKR-6	15 OCT 22	FALE-9	15 JAN 24
FAKR-7	15 OCT 22	FALE-10	15 JAN 24
LANSERIA INTERNATIONAL		FALE-11	15 JAN 24
FALA-1	15 OCT 23	FALE-12	15 JAN 24
FALA-2	15 OCT 23	FALE-13	15 JUL 18
FALA-3	15 JUL 23	AD-01	11 OCT 18
FALA-4	15 JUL 23	AD-02	15 JUN 23
FALA-5	15 JAN 23	ILS-01	08 DEC 16
FALA-6	15 JAN 23	ILS-02	08 DEC 16
FALA-7	15 JUL 23	ILS-03	08 DEC 16
FALA-8	15 JUL 23	ILS-04	08 DEC 16
FALA-9	15 JUL 23	VOR-01	05 JAN17
FALA-10	15 JUL 23	VOR-02	05 JAN17
AD-01	20 JUN 19	RAD-01	25 JUL 13
AD-02	03 OCT 24	ARR-01	11 DEC 14
AD-03	03 JAN 19	ARR-01A	06 MAY 10
VOR-01	26 MAY 16	ARR-02	11 DEC 14
VOR-02	26 MAY 16	ARR-02A	02 MAY 13



PAGE	DATE	PAGE	DATE
ARR-03	30 APR 15	FALM-4	15 OCT 17
ARR-03A	17 AUG 17	FALM-5	15 OCT 20
ARR-04	20 AUG 15	FALM-6	15 OCT 20
ARR-04A	06 MAY 10	FALM-7	15 JAN 23
ARR-05	20 AUG 15	FALM-8	15 JAN 23
ARR-05A	07 APR 11	AD-01	08 JUL 04
ARR-06	11 DEC 14	ILS-01	12 OCT 17
ARR-06A	07 MAR 13	LANGEBAANWEG (MIL - U	JNLICENSED)
ARR-07	20 AUG 15	FALW-1	15 JUL 20
ARR-07A	07 APR 11	FALW-2	15 JUL 20
ARR-08	30 MAR 17	FALW-3	15 JUL 20
ARR-08A	07 APR 11	FALW-4	15 JUL 20
DEP-01	11 DEC 14	FALW-5	15 OCT 20
DEP-01A	06 MAY 10	FALW-6	15 OCT 20
DEP-02	11 DEC 14	FALW-7	15 APR 22
DEP-02A	07 APR 11	FALW-8	15 APR 22
DEP-03	11 DEC 14	FALW-9	15 JAN 23
DEP-03A	07 APR 11	AD-01	08 JUL 04
DEP-04	11 DEC 14	LADYSMITH	
DEP-04A	07 APR 11	FALY-1	15 JAN 20
DEP-05	11 DEC 14	FALY-2	15 JAN 20
DEP-05A	07 APR 11	FALY-3	15 JAN 20
DEP-06	11 DEC 14	FALY-4	15 JAN 20
DEP-06A	07 APR 11	FALY-5	15 OCT 20
RNAV-01	17 AUG 17	FALY-6	15 OCT 20
RNAV-01A	18 NOV 10	FALY-7	15 JAN 19
RNAV-02	17 AUG 17	AD-01	08 JUL 04
RNAV-02A	18 NOV 10	VOR-01	17 DEC 09
AFB MAKHADO MILITARY (MIL - UNLICENSED)		MALAMALA	
FALM-1	15 APR 17	FAMD-1	15 JUL 23
FALM-2	15 APR 17	FAMD-2	15 JUL 23
FALM-3	15 OCT 17	FAMD-3	15 JUL 23

AIP South Africa

GEN 0.4-21 15 JAN 25

PAGE	DATE	PAGE	DATE	
FAMD-4	15 JUL 23	FAMN-4	15 JAN 16	
FAMD-5	15 JUL 23	FAMN-5	15 JUL 22	
FAMD-6	15 JUL 23	FAMN-6	15 JUL 22	
FAMD-7	15 JUL 23	FAMN-7	15 JUL 17	
FAMD-8	15 JUL 23	AD-01	11 OCT 18	
MARGATE		RNAV-01	27 APR 17	
FAMG-1	15 JAN 24	RNAV-01A	15 OCT 15	
FAMG-2	15 JAN 24	RNAV-02	27 APR 17	
FAMG-3	15 JAN 24	RNAV-02A	15 OCT 15	
FAMG-4	15 JAN 24	MOSSEL BAY (CP/KP	")	
FAMG-5	15 OCT 22	FAMO-1	15 APR 24	
FAMG-6	15 OCT 22	FAMO-2	15 APR 24	
FAMG-7	15 OCT 20	FAMO-3	15 APR 23	
AD-01	11 OCT 18	FAMO-4	15 APR 23	
RNAV-01	08 DEC 16	FAMO-5	15 APR 23	
RNAV-01A	08 DEC 16	FAMO-6	15 APR 23	
RNAV-02	08 DEC 16	FAMO-7	15 APR 24	
RNAV-02A	08 DEC 16	FAMO-8	15 APR 24	
GEORGE DICK MONTSHIOA		NEWCASTLE	NEWCASTLE	
FAMM-1	15 JUL 23	FANC-1	15 JAN 20	
FAMM-2	15 JUL 23	FANC-2	15 JAN 20	
FAMM-3	15 APR 19	FANC-3	15 JAN 20	
FAMM-4	15 APR 19	FANC-4	15 JAN 20	
FAMM-5	15 OCT 20	FANC-5	15 OCT 20	
FAMM-6	15 OCT 20	FANC-6	15 OCT 20	
FAMM-7	15 JUL 23	FANC-7	15 JAN 24	
FAMM-8	15 JUL 23	AD-01	18 DEC 08	
AD-01	18 JUL 19	RNP-01	05 OCT 23	
VOR-01	20 JUN 19	RNP01A	15 JUN 23	
MALELANE		OVERBERG (MIL - UN	LICENSED)	
FAMN-1	15 JUL 22	FAOB-1	15 APR 20	
FAMN-2	15 JUL 22	FAOB-2	15 APR 20	
FAMN-3	15 JAN 16	FAOB-3	15 APR 22	

Civil Aviation Authority



PAGE	DATE	PAGE	DATE
FAOB-4	15 APR 22	FAOR-13	15 OCT 23
FAOB-5	15 APR 20	FAOR-14	15 OCT 23
FAOB-6	15 APR 20	FAOR-15	15 JAN 24
FAOB-7	15 APR 22	FAOR-16	15 JAN 24
FAOB-8	15 APR 22	FAOR-17	15 OCT 23
FAOB-9	15 JAN 23	FAOR-18	15 OCT 23
AD-01	08 JUL 04	AD-01	21 APR 22
RNAV-01	24 MAY 18	AD-02	15 JUN 23
RNAV-01A	29 MAR 18	AD-03	15 JUN 23
RNAV-02	24 MAY 18	AD-04	13 JUL 23
RNAV-02A	29 MAR 18	AD-05	15 JUN 23
OUDTSHOORN		AD-06	15 JUN 23
FAOH-1	15 JAN 23	AD-07	15 JUN 23
FAOH-2	15 JAN 23	AD-08	13 JUL 23
FAOH-3	15 OCT 16	ILS-01	10 JAN 13
FAOH-4	15 OCT 16	ILS-02	18 AUG 16
FAOH-5	15 APR 24	ILS-03	10 JAN 13
FAOH-6	15 APR 24	ILS-05	21 AUG 14
FAOH-7	15 OCT 24	ILS-06	21 AUG 14
FAOH-8	15 OCT 24	ILS-07	10 JAN 13
O R TAMBO INTERNATIO	NAL	ILS-10	23 JUN 16
FAOR-1	15 JUL 24	VOR-01	04 APR 13
FAOR-2	15 JUL 24	VOR-02	10 JAN 13
FAOR-3	15 OCT 23	ARR-01	31 DEC 20
FAOR-4	15 OCT 23	ARR-02	31 DEC 20
FAOR-5	15 JUL 24	ARR-03	31 DEC 20
FAOR-6	15 JUL 24	ARR-04	31 DEC 20
FAOR-7	15 JAN 25	ARR-05	31 DEC 20
FAOR-8	15 JAN 25	ARR-07	31 DEC 20
FAOR-9	15 OCT 24	ARR-08	31 DEC 20
FAOR-10	15 OCT 24	ARR-08A	10 JAN 13
FAOR-11	15 JUL 24	ARR-09	31 DEC 20
FAOR-12	15 JUL 24	ARR-09A	10 JAN 13

GEN 0.4-22 15 JAN 25



GE	Ν	0.4-2	23
	15	JAN	25

PAGE	DATE	PAGE	DATE
ARR-10	31 DEC 20	DEP-19	21 AUG 14
ARR-10A	10 JAN 13	DEP-20	31 MAR 16
ARR-12	31 DEC 20	DEP-21	10 JAN 13
ARR-12A	10 JAN 13	DEP-21A	10 JAN 13
ARR-13	31 DEC 20	DEP-22	21 AUG 14
ARR-14	31 DEC 20	DEP-22A	10 JAN 13
ARR-15	31 DEC 20	DEP-23	21 AUG 14
ARR-16	31 DEC 20	DEP-23A	10 JAN 13
ARR-17	31 DEC 20	RAD-01	31 MAR 16
ARR-18	31 DEC 20	RNAV-01	31 DEC 20
ARR-18A	10 JAN 13	RNAV-01A	09 JAN 14
ARR-19	31 DEC 20	RNAV-02	31 DEC 20
ARR-19A	10 JAN 13	RNAV-02A	01 MAY 14
ARR-20	31 DEC 20	PORT ALFRED	
ARR-20A	10 JAN 13	FAPA-1	15 JUL 20
DEP-01	10 JAN 13	FAPA-2	15 JUL 20
DEP-02	18 AUG 16	FAPA-3	15 JUL 20
DEP-03	31 MAR 16	FAPA-4	15 JUL 20
DEP-04	18 AUG 16	FAPA-5	15 JAN 25
DEP-06	10 JAN 13	FAPA-6	15 JAN 25
DEP-07	21 AUG 14	FAPA-7	15 JAN 25
DEP-08	10 JAN 13	FAPA-8	15 JAN 25
DEP-10	10 JAN 13	FAPA-9	15 JAN 25
DEP-10A	10 JAN 13	CHIEF DAWID STUU	RMAN
DEP-11	21 AUG 14		
DEP-11A	10 JAN 13	FAPE-1	15 APR 23
DEP-12	10 JAN 13	FAPE-2	15 APR 23
DEP-13	21 AUG 14	FAPE-3	15 APR 23
DEP-14	31 MAR 16	FAPE-4	15 APR 23
DEP-15	21 AUG 14	FAPE-5	15 APR 23
DEP-16	21 AUG 14		15 APR 23
DEP-17	21 AUG 14		15 APR 23
DEP-18	10 JAN 13	FAPE-8	15 APR 23

Civil Aviation Authority



GEN 0.4-24 15 JAN 25			AIP South Africa
PAGE	DATE	PAGE	DATE
FAPE-9	15 JAN 25	FAPG-5	15 JAN 25
FAPE-10	15 JAN 25	FAPG-6	15 JAN 25
FAPE-11	15 APR 23	FAPG-7	15 JAN 25
FAPE-12	15 APR 23	AD-01	08 NOV 18
FAPE-13	15 APR 23	RNAV-01	04 NOV 21
FAPE-14	15 APR 23	RNAV-01A	04 NOV 21
FAPE-15	15 JUL 23	RNAV-02	04 NOV 21
FAPE-16	15 JUL 23	RNAV-02A	04 NOV 21
AD-01	08 NOV 18	PHALABORWA (KR	UGER PARK GATEWAY)
AD-02	17 SEP 15	FAPH-1	15 OCT 22
ILS-01	14 SEP 17	FAPH-2	15 OCT 22
ILS-02	14 SEP 17	FAPH-3	15 APR 17
VOR-01	06 DEC 18	FAPH-4	15 APR 17
VOR-02	07 JAN 16	FAPH-5	15 APR 22
RNAV-01	17 SEP 15	FAPH-6	15 APR 22
RNAV-01A	17 SEP 15	FAPH-7	15 OCT 22
RNAV-02	17 SEP 15	FAPH-8	15 OCT 22
RNAV-02A	17 SEP 15	AD-01	08 JUL 04
RAD-01	04 APR 13	PIETERSBURG	
PIET RETIEF		FAPI-1	15 JAN 24
FAPF-1	15 APR 23	FAPI-2	15 JAN 24
FAPF-2	15 APR 23	FAPI-3	15 JAN 24
FAPF-3	15 JAN 20	FAPI-4	15 JAN 24
FAPF-4	15 JAN 20	FAPI-5	15 JAN 24
FAPF-5	15 APR 23	FAPI-6	15 JAN 24
FAPF-6	15 APR 23	FAPI-7	15 JAN 24
FAPF-7	15 JAN 22	PIETERMARITZBUR	G
AD-01	08 JUL 04	FAPM-1	15 JUL 24
PLETTENBERG BAY		FAPM-2	15 JUL 24
FAPG-1	15 JAN 25	FAPM-3	15 JAN 18
FAPG-2	15 JAN 25	FAPM-4	15 JAN 18
FAPG-3	15 JAN 25	FAPM-5	15 APR 22
FAPG-4	15 JAN 25	FAPM-6	15 APR 22

AIP South Africa

GEN	0.4-25
15	JAN 25

	PAGE	DATE	PAGE	DATE
	FAPM-7	15 JUL 24	ILS-01	12 OCT 17
	FAPM-8	15 JUL 24	VOR-01	15 SEP 16
	FAPM-9	15 JAN 22	RNAV-01	18 JUL 19
	AD-01	08 NOV 18	RNAV-01A	18 JUL 19
	RNAV-01	20 JUN 19	POTCHEFSTROOM	
	RNAV-01A	29 JUL 10	FAPS-1	15 APR 23
	RNAV-02	18 JUL 19	FAPS-2	15 APR 23
	RNAV-02A	23 SEP 10	FAPS-3	15 JAN 15
	PILANESBERG INTERNATI	ONAL	FAPS-4	15 JAN 15
I	FAPN-1	15 JAN 25	FAPS-5	15 OCT 21
	FAPN-2	15 JAN 25	FAPS-6	15 OCT 21
I	FAPN-3	15 JAN 25	FAPS-7	15 OCT 21
I	FAPN-4	15 JAN 25	FAPS-8	15 OCT 21
	FAPN-5	15 JAN 17	RICHARDS BAY	
	FAPN-6	15 JAN 17	FARB-1	15 OCT 22
	FAPN-7	15 JAN 22	FARB-2	15 OCT 22
	FAPN-8	15 JAN 22	FARB-3	15 APR 20
	AD-01	08 JUL 04	FARB-4	15 APR 20
	VOR-01	08 JUL 04	FARB-5	15 JAN 20
	POLOKWANE INTERNATIO	NAL	FARB-6	15 JAN 20
	FAPP-1	15 APR 24	FARB-7	15 OCT 22
	FAPP-2	15 APR 24	FARB-8	15 OCT 22
	FAPP-3	15 APR 24	FARB-9	15 OCT 24
	FAPP-4	15 APR 24	AD-01	08 JUL 04
	FAPP-5	15 OCT 23	AD-02	08 JUL 04
	FAPP-6	15 OCT 23	VOR-01	08 JUL 04
	FAPP-7	15 OCT 23	VOR-03	08 JUL 04
	FAPP-8	15 OCT 23	SECUNDA	
	FAPP-9	15 OCT 23	FASC-1	15 JAN 20
	FAPP-10	15 OCT 23	FASC-2	15 JAN 20
	FAPP-11	15 APR 23	FASC-3	15 JAN 19
	AD-01	08 NOV 18	FASC-4	15 JAN 19
	AD-02	07 MAR 13	FASC-5	15 JAN 19

Civil Aviation Authority

GEN 0.4-26 15 JAN 25



PAGE	DATE	PAGE	DATE
FASC-6	15 JAN 19	FASZ-3	15 JUL 23
FASC-7	15 JAN 19	FASZ-4	15 JUL 23
AD-01	08 NOV 18	FASZ-5	15 JUL 23
SWARTKOP (MIL - U	NLICENSED)	FASZ-6	15 JUL 23
FASK-1	15 APR 20	FASZ-7	15 JUL 24
FASK-2	15 APR 20	FASZ-8	15 JUL 24
FASK-3	15 APR 20	AD-01	06 DEC 18
FASK-4	15 APR 20	RNAV-01	06 DEC 18
FASK-5	15 APR 20	RNAV-01A	06 DEC 18
FASK-6	15 APR 20	RNAV-02	06 DEC 18
FASK-7	15 JUL 23	RNAV-02A	06 DEC 18
FASK-8	15 JUL 23	TOMMY'S FIELD	
AD-01	15 MAR 07	FATF-1	15 APR 23
SISHEN		FATF-2	15 APR 23
FASS-1	15 JUL 23	FATF-3	15 JUL 17
FASS-2	15 JUL 23	FATF-4	15 JUL 17
FASS-3	15 JAN 24	FATF-5	15 OCT 19
FASS-4	15 JAN 24	FATF-6	15 OCT 19
FASS-5	15 JAN 24	FATF-7	15 JAN 19
FASS-6	15 JAN 24	FATF-8	15 JAN 19
FASS-7	15 JAN 24	TUTUKA POWER ST	ATION
FASS-8	15 JAN 24	FATT-1	15 APR 23
FASS-9	15 JUL 23	FATT-2	15 APR 23
FASS-10	15 JUL 23	FATT-3	15 JAN 20
AD-01	12 AUG 21	FATT-4	15 JAN 20
AD-02	01 MAY 14	FATT-5	15 APR 22
VFR ARR-01	18 JUL 19	FATT-6	15 APR 22
VFR DEP-01	18 JUL 19	FATT-7	15 JAN 22
RNAV-01	14 SEP 17	AD-01	08 JUL 04
RNAV-01A	14 SEP 17	TSWALU GAME RES	ERVE
SKUKUZA		FATW-1	15 APR 23
FASZ-1	15 JUL 24	FATW-2	15 APR 23
FASZ-2	15 JUL 24	FATW-3	15 APR 23

AMDT 1/25
AIP South Africa

GEN 0.4-27 15 JAN 25

PAGE	DATE	PAGE	DATE
FATW-4	15 APR 23	FAUP-7	15 OCT 23
FATW-5	15 APR 23	FAUP-8	15 OCT 23
FATW-6	15 APR 23	FAUP-9	15 OCT 23
FATW-7	15 APR 24	FAUP-10	15 OCT 23
FATW-8	15 APR 24	FAUP-11	15 JUL 24
AD-01	03 JAN 19	FAUP-12	15 JUL 24
TZANEEN		FAUP-13	15 JUL 23
FATZ-1	15 APR 23	AD-01	12 AUG 21
FATZ-2	15 APR 23	AD-02	01 MAY 14
FATZ-3	15 OCT 23	AD-03	07 JAN 16
FATZ-4	15 OCT 23	VOR-01	06 MAR 14
FATZ-5	15 APR 22	RNAV-01	08 DEC 16
FATZ-6	15 APR 22	RNAV-01A	08 DEC 16
FATZ-7	15 JAN 22	ULUSABA	
AD-01	08 JUL 04	FAUS-1	15 JAN 24
ULUNDI - PRINCE MA	NGOSUTHU	FAUS-2	15 JAN 24
BUTHELEZI		FAUS-3	15 JUL 24
FAUL-1	15 APR 23	FAUS-4	15 JUL 24
FAUL-2	15 APR 23	FAUS-5	15 JAN 24
FAUL-3	15 APR 21	FAUS-6	15 JAN 24
FAUL-4	15 APR 21	FAUS-7	15 JAN 24
FAUL-5	15 APR 21	FAUS-8	15 JAN 24
FAUL-6	15 APR 21	MTHATHA	
FAUL-7	15 APR 22	FAUT-1	15 JAN 24
FAUL-8	15 APR 22	FAUT-2	15 JAN 24
AD-01	08 JUL 04	FAUT-3	15 JUL 23
UPINGTON INTERNA	TIONAL	FAUT-4	15 JUL 23
FAUP-1	15 APR 24	FAUT-5	15 JAN 24
FAUP-2	15 APR 24	FAUT-6	15 JAN 24
FAUP-3	15 JUL 24	FAUT-7	15 JUL 23
FAUP-4	15 JUL 24	FAUT-8	15 JUL 23
FAUP-5	15 OCT 23	AD-01	08 NOV 18
FAUP-6	15 OCT 23	RNAV-01	08 NOV 18

GEN 0.4-28 15 JAN 25



PAGE	DATE	PAGE	DATE
RNAV-01A	08 NOV 18	FAWB-10	15 OCT 23
RNAV-02	08 NOV 18	FAWB-11	15 OCT 23
RNAV-02A	03 JAN 19	FAWB-12	15 OCT 23
VIRGINIA/DURBAN		AD-01	08 NOV 18
FAVG-1	15 APR 24	VOR-01	21 JUL 16
FAVG-2	15 APR 24	RNAV-01	13 SEP 18
FAVG-3	15 JAN 16	RNAV-01A	13 SEP 18
FAVG-4	15 JAN 16	WITBANK	
FAVG-5	15 JAN 16	FAWI-1	15 JAN 20
FAVG-6	15 JAN 16	FAWI-2	15 JAN 20
FAVG-7	15 APR 22	FAWI-3	15 JAN 20
FAVG-8	15 APR 22	FAWI-4	15 JAN 20
FAVG-9	15 APR 22	FAWI-5	15 JAN 20
VENETIA		FAWI-6	15 JAN 20
FAVM-1	15 APR 23	FAWI-7	15 JAN 20
FAVM-2	15 APR 23	AD-01	08 JUL 04
FAVM-3	15 OCT 23	VOR-01	08 JUL 04
FAVM-4	15 OCT 23		
FAVM-5	15 OCT 23	WATERKLOOF AFB	(MIL - UNLICENSED)
FAVM-6	15 OCT 23	FAWK-1	15 APR 20
FAVM-7	15 OCT 23	FAWK-2	15 APR 20
FAVM-8	15 OCT 23	FAWK-3	15 JUL 21
AD-01	08 JUL 04	FAWK-4	15 JUL 21
WONDERBOOM / PRET	ORIA	FAWK-5	15 APR 20
FAWB-1	15 OCT 23	FAWK-6	15 APR 20
FAWB-2	15 OCT 23	FAWK-7	15 APR 20
FAWB-3	15 OCT 23	FAWK-8	15 APR 20
FAWB-4	15 OCT 23	FAWK-9	15 APR 23
FAWB-5	15 OCT 23	AD-01	20 JAN 05
FAWB-6	15 OCT 23	RNAV-01	12 OCT 17
FAWB-7	15 OCT 23	RNAV-01A	14 SEP 17
FAWB-8	15 OCT 23	RNAV-02	14 SEP 17
FAWB-9	15 OCT 23	RNAV-02A	12 OCT 17

AMDT 1/25



GEN	0.4-2	29
15	JAN	25

PAGE	DATE
CAPE WINELANDS (8	320)
FAWN-1	15 JUL 22
FAWN-2	15 JUL 22
FAWN-3	15 JUL 22
FAWN-4	15 JUL 22
FAWN-5	15 JUL 22
FAWN-6	15 JUL 22
FAWN-7	15 JUL 22
FAWN-8	15 JUL 22
AFB YSTERPLAAT (M	IIL - UNLICENSED)
FAYP-1	15 APR 23
FAYP-2	15 APR 23
FAYP-3	15 APR 20
FAYP-4	15 APR 20
FAYP-5	15 APR 20
FAYP-6	15 APR 20
FAYP-7	15 APR 20
AD-01	15 MAR 07

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GEN 0.5 LIST OF HAND AMENDMENTS TO THE AIP



GEN 0.5-2 15 OCT 23

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GEN 0.5-3 15 OCT 23

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Civil Aviation Authority

AMDT 4/23



GEN 0.5-4 15 OCT 23

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GEN 0.5-5 15 JAN 24

AIP page(s) affected	Amendment text	Introduced by AIP Amendment NR

Civil Aviation Authority

AMDT 1/24



GEN 0.5-6 15 JAN 24

AIP page(s) affected	Amendment text	Introduced by AIP Amendment NR

AMDT 1/24



GEN 0.5-7 15 JAN 24

AIP page(s) affected	Amendment text	Introduced by AIP Amendment NR

Civil Aviation Authority

AMDT 1/24



GEN 0.5-8 15 JAN 24

AIP page(s) affected	Amendment text	Introduced by AIP Amendment NR	

AMDT 1/24



GEN 0.6-1 15 JAN 25

GEN 0.6 TABLE OF CONTENTS

GEN 0			
GEN 0.1	Preface	GEN 0.1 - 1	
	1 Civil Aviation Authority	GEN 0.1 - 1	
	2 Applicable ICAO documents	GEN 0.1 - 1	
	3 Publication Media	GEN 0.1 - 1	
	4 The AIP structure and established reg- ular amendment interval	GEN 0.1 - 1	
	5 Services to contact in case of detected AIP errors.	GEN 0.1 - 3	
GEN 0.2	Record of AIP amendments	GEN 0.2 - 1	
GEN 0.3	Record of AIP supplements	GEN 0.3 - 1	
GEN 0.4	Checklist of AIP pages	GEN 0.4 - 1	
GEN 0.5	List of hand amendments to the AIP	GEN 0.5 - 1	
GEN 0.6	Table of contents	GEN 0.6 - 1	
GEN 1			
GEN 1.1	Designated Authorities	GEN 1.1 - 1	
	1 Civil Aviation	GEN 1.1 - 1	
	2 Meteorology	GEN 1.1 - 1	
	3 Customs	GEN 1.1 - 1	
	4 Immigration	GEN 1.1 - 2	
	5 Health	GEN 1.1 - 2	
	6 En-route and aerodrome/heliport charges.	GEN 1.1 - 2	
	7 Agricultural quarantine	GEN 1.1 - 3	
	8 Aircraft accidents investigation	GEN 1.1 - 3	
GEN 1.2	Entry, transit and departure of aircraft	GEN 1.2 - 1	
	1 General	GEN 1.2 - 1	
	2 Scheduled flights	GEN 1.2 - 1	
	3 Non-scheduled flights	GEN 1.2 - 2	
	4 Private flights	GEN 1.2 - 4	
	5 Foreign military aircraft	GEN 1.2 - 5	
	6 Report of Arrival of Aircraft	GEN 1.2 - 5	
	7 Report of departure of aircraft	GEN 1.2 - 5	
GEN 1.3	Entry, transit and departure of passengers and crew	GEN 1.3 - 1	
	1 Customs requirements:	GEN 1.3 - 1	

Civil Aviation Authority

AMDT 1/25



2 Immigration requirements GEN 1.3 - 2 3. Public health requirements GEN 1.3 - 4 GEN 1.4 Entry, transit and departure of cargo GEN 1.4 - 1 1 Customs requirements concerning car-GEN 1.4 - 1 go and other articles 2 Agricultural quarantine requirements GEN 1.4 - 1 GEN 1.5 Aircraft instruments, equipment and GEN 1.5 - 1 flight documents 1 General GEN 1.5 - 1 2 Equipment to be carried by all types of flights GEN 1.5 - 1 3 Communication and Navigation Equip-GEN 1.5 - 1 ment Summary of national regulations and international agreements/conventions GEN 1.6 GEN 1.6 - 1 Differences from ICAO Standards, Recommended Practices and **GEN 1.7** GEN 1.7 - 1 Procedures 1. Annex 1 GEN 1.7 - 1 2. Annex 2 GEN 1.7 - 4 3. Annex 3 GEN 1.7 - 4 GEN 1.7 - 5 4. Annex 4 5. Annex 5 GEN 1.7 - 9 6. Annex 6 GEN 1.7 - 9 7. Annex 7 GEN 1.7 - 13 GEN 1.7 - 14 8. Annex 8 9. Annex 9 GEN 1.7 - 18 10. Annex 10 GEN 1.7 - 18 11. Annex 11 GEN 1.7 - 18 12. Annex 12 GEN 1.7 - 20 13. Annex 13 GEN 1.7 - 20 14. Annex 14 GEN 1.7 - 20 15. Annex 15 GEN 1.7 - 20 16. Annex 16 GEN 1.7 - 22 GEN 1.7 - 22 17 Annex 17 GEN 1.7 - 22 18. Annex 18 GEN 1.7 - 22 19. Annex 19 20. ICAO DOC 8168 - Aircraft Operation GEN 1.7 - 22

GEN 0.6-2

15 JAN 25



GEN 0.6-3 15 JAN 25

GEN 2			
GEN 2.1	Measuring system, aircraft markings, holidays	GEN 2.1 - 1	
	1 Units of measurement	GEN 2.1 - 1	
	2 Temporal reference system	GEN 2.1 - 3	
	3 Geodetic reference datum	GEN 2.1 - 4	
	4 Aircraft nationality and registration marks	GEN 2.1 - 4	
	5 Public holidays	GEN 2.1 - 4	
GEN 2.2	Abbreviations used in AIS publications	GEN 2.2 - 1	
GEN 2.3	Charts symbols	GEN 2.3 - 1	
GEN 2.4	Location indicators	GEN 2.4 - 1	
GEN 2.5	List of radio navigation aids	GEN 2.5 - 1	
GEN 2.6	Conversions tables	GEN 2.6 - 1	
GEN 2.7	Sunrise/ sunset tables	GEN 2.7 - 1	
GEN 3			
GEN 3.1	Aeronautical information services	GEN 3.1 - 1	
	1 Responsible service	GEN 3.1 - 1	
	2 Area of responsibility	GEN 3.1 - 2	
	3 Aeronautical publications	GEN 3.1 - 2	
	4 AIRAC System	GEN 3.1 - 6	
	5 Pre-Flight Information	GEN 3.1 - 7	
	6 Pre-Flight Information Service at aero- dromes/heliports.	GEN 3.1 - 7	
GEN 3.2	Aeronautical charts	GEN 3.2 - 1	
	1 Responsible service(s)	GEN 3.2 - 1	
	2 Maintenance of charts	GEN 3.2 - 1	
	3 Purchase arrangements	GEN 3.2 - 1	
	4 List of aeronautical charts available	GEN 3.2 - 4	
	5 Index to the World Aeronautical Chart (WAC) - ICAO 1: 1000	GEN 3.2 - 5	
	6 Topographical charts	GEN 3.2 - 17	
	7 Corrections to charts not contained in the AIP	GEN 3.2 - 17	
GEN 3.3	Air traffic services	GEN 3.3 - 1	
	1 Responsible service	GEN 3.3 - 1	
	2 Area of responsibility	GEN 3.3 - 1	
	3 Types of services	GEN 3.3 - 1	

Civil Aviation Authority

AMDT 1/25



4 Co-ordination between the operator GEN 3.3 - 2 and ATS 5 Minimum flight altitude GEN 3.3 - 3 6 Minimum flight altitude formula GEN 3.3 - 3 7 ATS units address list GEN 3.3 - 4 8 User procedure relating to the flexible use of airspace within the South African GEN 3.3 - 5 area of responsibility. 9 Automatic Dependent Surveillance GEN 3.3 - 8 (ADS)/Controller Pilot Data Link Commu-nication/Control (CPDLC) ATS GEN 3.4 GEN 3.4 - 1 **Communication services** 1 Responsible service GEN 3.4 - 1 2 Area of responsibility GEN 3.4 - 2 3 Types of service GEN 3.4 - 2 4 Requirements and conditions GEN 3.4 - 5 5 Data Link Automatic Terminal Informa-GEN 3.4 - 5 tion Service (D-ATIS). Cape Town and Johannesburg FIR GEN 3.5 Meteorological services GEN 3.5 - 1 1 Responsible service GEN 3.5 - 1 2 Area of responsibility GEN 3.5 - 2 3 Meteorological observations and GEN 3.5 - 2 reports GEN 3.5 - 3 4 Types of services 5 Notification required from operators GEN 3.5 - 4 6 Aircraft reports GEN 3.5 - 5 7 VOLMET service GEN 3.5 - 5 8 SIGMET and AIRMET service GEN 3.5 - 6 9 Aerodrome warnings GEN 3.5 - 8 10 Other automated meteorological service (Refer to Table GEN 3.5 - 6) GEN 3.5 - 9 GEN 3.6 Search and rescue GEN 3.6 - 1 1 Purpose GEN 3.6 - 1 GEN 3.6 - 1 2 Responsible Authority 3 Organisation GEN 3.6 - 2

4 Rescue Coordination Centre

7 Search and Rescue Signals

6 Emergency Locator Transmitter (ELT)

5 Procedures

Civil Aviation Authority

GEN 3.6 - 2

GEN 3.6 - 3

GEN 3.6 - 14

GEN 3.6 - 19

AMDT 1/25

GEN 0.6-4

15 JAN 25

AIP South Africa



GEN 0.6-5 15 JAN 25

GEN 4			
GEN 4.1	Aerodrome/Heliport Charges	GEN 4.1 - 1 GEN 4.2 - 1	
GEN 4.2	Air navigation services charges		
	1 VSAT Charges	GEN 4.2 - 1	
	2 SADC VSAT invoicing and Payment Advice	GEN 4.2 - 1	
	3 Primary Payment Method (for ICH members airlines only)	GEN 4.2 - 2	
	4 Other Payment options.	GEN 4.2 - 2	
	5 Payment options for SADC VSAT CHARGES for Non-IATA members as follows:	GEN 4.2 - 3	
	6 Billing and collection for Polokwane In- ternational Airport	GEN 4.2 - 5	

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GEN 1 NATIONAL REGULATIONS AND REQUIREMENTS GEN 1.1 DESIGNATED AUTHORITIES

The authority responsible for civil aviation in the Republic of South Africa is the Civil Aviation Authority.

The requirements for entry and departure of aircraft engaged in international flights, and the standard procedure for clearance of these aircraft at all international airports, are given for the information and guidance of operators conducting international flights.

The postal and telegraphic addresses of the designated authorities concerned with the entry, transit and departure of international air navigation, and for the collection of fees there from, are as follows:-

1 Civil Aviation

Postal address: Civil Aviation Authority Private Bag X73 Halfway House Midrand 1685 Republic of South Africa

Aeronautical Fixed Service: FAHQYAYX Telephone: +27 11 545 1000 Telefax: +27 11 545 1465 Website: www.caa.co.za E-mail: mail@caa.co.za

2 Meteorology

Postal Address: The Chief Executive Officer South African Weather Services Private Bag X097 Pretoria 0001 Republic of South Africa

Aeronautical Fixed Service: FAPRYMYZ Telephone: +27 12 367 6000 Telefax: +27 12 367 6200 E-mail: bheki.mkhize@weathersa.co.za

3 Customs

Postal Address: Revenue Services General Manager: Customs Private Bag X923

GEN 1.1-2 15 APR 24

AIP South Africa

Pretoria 0001 Republic of South Africa

Telephone: +27 12 422 4000 or +27 80 000 7277 Telefax: +27 12 422 6848 or +27 12 422 5181 Website: www.sars.gov.za

4 Immigration

Postal Address: Department of Home Affairs, Chief Directorate: Immigration Services Private Bag X114 Pretoria 0001 Republic of South Africa

Telegraphic address: INTERIOR Telephone: +27 12 810 8011 Telefax: +27 12 325 3351

5 Health

Postal Address: The Director-General: Health Private Bag X828 Pretoria 0001 Republic of South Africa

Telephone: +27 12 312 0000 Telefax: +27 12 326 4395

6 En-route and aerodrome/heliport charges

Postal Address: Chief Financial Officer Air Traffic and Navigation Services Company SOC LTD Private Bag X15 Kempton Park 1620 Republic of South Africa

Telephone: +27 11 607 1000 Telefax: +27 11 607 1570



GEN 1.1-3 15 OCT 16

Postal Address: Airports Company Limited P.O.Box 75480 Garden view 2047 Republic of South Africa

Telephone: +27 11 453 9116 Telefax: +27 11 453 9353/4

7 Agricultural quarantine

Postal Address: Director-General: Agriculture Private Bag X250 Pretoria 0001 Republic of South Africa

Telegraphic Address: LANDBOU Telephone: +27 12 319 6000 Telefax: +27 12 319 6370

8 Aircraft accidents investigation

Civil Aviation Authority Accident Investigation Private Bag X73 Halfway House Midrand 1685 Republic of South Africa

Aeronautical Fixed Service: FAHQYAIA Telephone: +27 11 545 1000 Telefax: +27 11 545 1466

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GEN 1.2 ENTRY, TRANSIT AND DEPARTURE OF AIRCRAFT

Regulations and requirements for advance notification and applications for permission concerning entry, transit and departure of aircraft on international flight.

1 General

All flights into, from or over the Republic of South Africa must be carried out in

accordance with the Civil Aviation Regulations, 2011.

No aircraft originating outside the Republic of South Africa shall be allowed to enter and transit South African airspace or land at any South African aerodrome without an approved flight plan, a valid Foreign Operators Permit (FOP) and landing or overflight permit.

For all general flights exempted from an FOP, a landing permit application should be submitted to the Department of Transport three (3) working days prior to the flight operation date.

2 Scheduled Flights

2.1 General

A Foreign airline operating International Scheduled flights to the Republic of South Africa must be designated under the provisions of a bilateral air services agreement to which the State of the airline concerned and the Republic of South Africa are contracting parties and must also be in possession of a valid Foreign Operators Permit issued by the Chairperson of the International Air Services Council, in respect of such flights.

Commercial scheduled foreign operators need to comply with the following when submitting the air operator security program. A foreign air operator providing scheduled international commercial air transport operations in the Republic shall establish, implement and maintain a written supplementary station procedure that meets the national security requirements.

2.2 Documentary requirements for clearance of aircraft

2.2.1 It is a requirement that the under-mentioned documents be submitted by operators, for clearance on entry and departure of their aircraft to and from the Republic of South Africa. All documents listed below must follow the ICAO standard format as set forth in the relevant Appendices to Annex 9 and are acceptable when furnished in English or Afrikaans and completed in legible handwriting.

			,
Required by	General Declaration	Passenger Manifest	Cargo manifest
Passport Control	Two (Arrival/ Departure)	On request	
Customs	One (Arrival)	On request	On request
Health	One (Arrival)		

2.2.2 Aircraft documents required (Arrival/Departure)



Passport Control/Immigration

- 1) Incoming passengers can only be cleared by Passport Control/Immigration if a general declaration is presented timeously.
- 2) The following additional information pertaining to the general declaration and cargo manifest is required:
- i) General Declaration
- a) Particulars in respect of stores and cargo are required.
- b) Crew members names.
- ii) Cargo Manifest (if requested)
- a) The cargo manifest must be supported by air waybills or consignment notes, and receipt of consignment in the absence of which it will be required that the names and addresses of consignees be stated thereon. Information concerning the nature of the goods must be furnished.

2.3 Public health measures applied to aircraft

The following public health measures are required to be carried out in respect of aircraft entering the Republic of South Africa:

- a) The pilot in command of an aircraft must, on landing at the first airport, complete and deliver a General Declaration to the Port Health Officer of that airport.
- b) At least thirty minutes before arrival the aircraft must be disinfected if arriving from an endemic yellow fever area or a malaria area. This action must be properly recorded in the Health section of the General Declaration. The insecticide to be used must conform to the specifications of the World Health Organisation.
- c) Any illness or condition, on board an aircraft, must be recorded on the General Declaration and reported to the Port Health Officer, including but not limited to severe vomiting, diarrhoea and high fever.
- d) A certificate of vaccination is required from passengers in the case of yellow fever, when arriving from infected or endemic areas.

3 Non-scheduled flights

3.1 Procedures

Any aircraft of another Contracting State which engages in the carriage, to or from the Republic of South Africa, of passengers, cargo or mail for remuneration or hire on other than scheduled international air services must apply to the Chairperson of the International Air Services Licensing Council for the issuance of a Foreign Operators Permit. These exclude South African operated foreign registered aircraft.



GEN 1.2-3 15 JUL 24

Non-scheduled foreign commercial air transport operators carrying up to 8 passengers or less than 1000KG do not require a foreign operators permit, however operators are required to obtain an overflight and landing clearance from the Department of Transport: Owen Rikhotso

Tel:+2772 623 4370 Email: Rikhotso@dot.gov.za Tshifhiwa Ramulifho Tal:: 2772 622 4270 Email: Mahafhat@dot.gov.za

Tel:+2772 623 4370 Email: Mahafhat@dot.gov.za

A Foreign Operator's Permit is not required in respect of a class IV international air services, if:

- a) not more that eight passengers or 1000KG of cargo or mail is transported on the inbound flight as well as the outbound flight; and
- b) no passengers, cargo or mail is taken on at any point in the territory of the Republic for discharge at any other point in the territory of the Republic, except those passengers or that cargo or mail referred to in subparagraph a). However, a landing clearance issued by the Department of Transport. is required.

3.2 Prohibited or Emergency Landings

3.2.1 An aircraft engaged in either a flight in accordance with the provisions of paragraph 3.1 and paragraph 3.4 or of an authority granted by the Director of Civil Aviation in terms of those paragraphs, shall not, land in the Republic of South Africa before landing at the terminal aerodrome for that flight or land in the Republic of South Africa after taking off from that terminal aerodrome, except in an emergency.

3.2.2 The provisions or paragraph 3.4.1 (a), (b) and (c) shall apply mutatis mutandis to the pilot-in-command of any aircraft who is required to comply with the provisions of paragraph 3.2.1 but who is forced by an emergency to land at or take-off from a place other than the terminal aerodrome and similarly shall apply mutatis mutandis to any passenger or member of the crew of such aircraft.

3.2.3 Any aircraft originating outside the South African border and declaring any emergency shall be quarantined and only be allowed to disembark once approval has been obtained from the relevant border management agencies. Any violation of the above by any aircraft operator is punishable by law.

3.3 Applications for a Foreign Operators Permit

 a) Foreign Operators Permit are issued by the South African Civil Aviation Authority. All FOP applications must be submitted electronically on the eServices portal, which is on the SACAA website.Contact details are as follows: Sibusiso Mngomezulu
 Tel: +2772 178 8631 Email: mngomezulus@caa.co.za
 Itumeleng Mogashoa
 Tel: +2776 943 2494 Email: mogasoai@caa.co.za



b) (1) An application for a Foreign Operators Permit or an amendment thereof must be made on a form as prescribed.

(2) If an applicant wishes to operate more than one class of international air services, the applicant must make a separate application in respect of each separate class.

(3) Upon the granting of an amendment to a Foreign Operators Permit, the permit holder must submit the original permit to the Director of Civil Aviation for cancellation, whereupon a new permit is issued.

(4) In order to satisfy the Chairperson of the International Air Services Licensing Council that an applicant is fit and able to operate the international air service, the Director may require the applicant to submit the following -

- a) (i) A plan setting out in detail the manner in which the applicant will ensure that a safe and reliable international air service is operated;
 (ii) proof that he complies with all the other requirements mentioned in section 25(2) of the International Air Services Act, 1993 (Act No. 60 of 1993);
- b) a certified true copy of the existing valid foreign licence held by the applicant pertaining to the international air service for which application is being made for a permit or amendment of a permit;
- c) a certified true copy of the memorandum and articles of association or any other founding document of the applicant if the applicant is not a natural person;
- a valid guarantee, security or insurance policy in respect of the obligations and liabilities of the applicant which may arise from the operation of the international air service concerned;
- e) any other document in support of the applicants ability to operate the international air service concerned.
- f) An application fee must accompany the application for a Foreign Operators Permit.
- g) Applications for Foreign Operator Permits (FOP's) will be published in Government Gazette for a period of 21 days (inclusive of weekends and public holidays) in line with Section 24 of the International Air Services Act of 1990.
- h) The following flights are exempt from obtaining foreign operators permits and should apply for a landing clearance:: Military, General, MEDEVAC, Police, Business, Private, State/head/VIP/VVIP.
- 3.4 Ports of Entry for aircraft.

In terms of the provisions of the Aliens Control Act,96 (Act 96 of 1991) no person may enter or depart from the Republic of South Africa except through a port of entry, unless authority has been granted to such person to enter or depart from the Republic of South Africa at any other place. The aerodromes listed in par 3.4.1. have all been declared ports of entry, where immigration officers of the Department of Home Affairs grant passport control clearances. The pilot-in-command must ensure that all crew and passengers report to an immigration officer on entry and departure.



3.4.1 Ports of Entry

- a) Cape Town International Airport, Cape Town.
- b) O R Tambo International Airport, Johannesburg;
- c) Bram Fischer International Airport, Bloemfontein;
- d) Lanseria International Airport, Johannesburg;
- e) Chief Dawid Stuurman International Airport, Port Elizabeth;
- f) King Shaka International Airport, Durban;
- g) Polokwane International Airport, Polokwane;
- h) Kruger Mpumalanga International Airport, Nelspruit;
- i) Upington International Airport, Upington;
- j) Pilanesberg International Airport, Pilanesberg.

4 Private flights

4.1 Advance notification of arrival

The information contained in the flight plan is accepted as adequate notification of the arrival of incoming aircraft.

4.2 Documentary requirements for clearance of aircraft

Same requirements as for scheduled flights.

4.3 Public health measures applied to aircraft

Same requirements as for scheduled aircraft.

5 Foreign military aircraft

No foreign military aircraft shall fly over or land in the Republic except on the express invitation or with the express permission of the Minister; but any such aircraft so flying over or landing in the Republic shall be exempt from these regulations to such extent and on conditions as are specified in the invitation.

5.1 Documentary requirements of clearance of aircraft

Same requirements as for scheduled aircraft.

5.2 Public health measures applied to aircraft

Same requirements as for scheduled aircraft.

6 Report of Arrival of Aircraft

Except with the special permission of the Commissioner for Customs and Excise, the pilot-in-command of every aircraft entering the Republic of South Africa must make his first landing at a place appointed as a customs and examination station at that aerodrome: provided that these provisions shall not apply if the pilot-in-command is forced by stress of weather, accident or other circumstances beyond the control of the





pilot-in-command, to land at a place not so appointed and he reports the circumstances of this arrival to a member of the police force and as early as possible makes a report to the customs authorities at the place at which such aircraft was next due to land.

The pilot-in-command of any aircraft arriving in the Republic of South Africa whether with or without goods or passengers, shall within 3 hours after landing at any place appointed as a customs and excise airport, but in any event before the landing or embarkation of passengers and crew or the landing and loading of any goods, make due report in writing to the customers authorities at that airport.

7 Report of departure of aircraft

7.1 The pilot-in-command of any aircraft bound from any place within to any place outside the Republic of South Africa is required to report at a customs and excise airport and submit a report outwards in the prescribed form together with a full account of the cargo laden and all non-duty-paid imported or locally manufactured goods shipped as stores on board that aircraft.

7.2 The pilot-in-command of a foreign departing aircraft may not cause or permit the aircraft to depart from a customs and excise airport without first obtaining a certificate of clearance of transfer for the intended flight and the pilot-in-command may not after departure land at any place in the Republic of South Africa other than

a customs and excise airport unless forced to do so by stress of weather, accident or

other circumstances beyond the control of the pilot-in-command.

7.3 If an aircraft in respect of which a clearance has been issued does not depart from the customs and excise aerodrome within 36 hours of the time when clearance was issued or within such further time as may be allowed by the customs authorities, such clearance lapses and the pilot-in-command shall obtain fresh clearance before causing or permitting the aircraft to depart.

Where a departure aerodrome has no facilities for the transmission of flight plan information, aircraft will be permitted to enter Lesotho and land at Maseru, Moshoeshoe Airport. However, the pilot-in-command shall be required to transmit on the appropriate radio frequency to Maseru Airport Flight Information Unit the requirements as contained in ENR 1.10 soon after the establishment of radio communication contact with Maseru Tower.

Where it is intended to operate to any domestic aerodrome in Lesotho aircraft shall first land at Maseru, Moshoeshoe Airport for Customs, Immigration and Health clearances and to obtain special permit to operate to such domestic airport.

AMDT 3/24



GEN 1.3 ENTRY, TRANSIT AND DEPARTURE OF PASSENGERS AND CREW

1 Customs requirements:

1.1 Arrivals

1.1.1 Baggage or other articles belonging to disembarking passengers or crew shall be presented to the customs authorities for inspection which will be carried out on a selective basis. All accompanied baggage will be cleared on the basis of oral declaration. Unaccompanied baggage shall be treated as cargo.

1.1.2 Every article imported for trade or commercial purposes is taxed according to the South African Customs and Excise tariff and should be declared separately.

1.1.3 Not more than R500 in South African bank notes may be imported whilst the importation of unwrought, unworked or semi-manufactured gold is subject to a permit issued by the South African Treasury.

1.2 The importation of the following articles is prohibited or restricted: meat; live animals; drugs, e.g. opium, cocaine, morphine, marijuana (Indian hemp); flick knives and dangerous weapons; indecent, obscene or objectionable books, periodicals, photographs, films and other articles; agricultural products or any plants, seeds or bulbs, e.t.c.

1.2.1 Certain rebates and duty free allowances are in force and particulars may be obtained from any South African diplomatic mission or on arrival.

1.3 Departures

1.3.1 No customs formalities are normally required on departure.

1.3.2 Visitors leaving the Republic of South Africa within 12 months of arrival may export R500 in South African bank notes and any amount of foreign bank notes provided such bank notes were originally brought into the Republic of South Africa by them, or represent the proceeds or instruments or exchange brought into and exchanged in the Republic of South Africa by them.

1.3.3 The exportation of gold in any form is subject of a permit issued by the South African Treasury, S.A. Reserve Bank or a commercial bank.

1.4 Customs and excise aerodrome

The following have been appointed as customs and excise aerodromes: Cape Town International Airport, Cape Town; O R Tambo International Airport, Johannesburg; Bram Fischer International Airport, Bloemfontein; Lanseria International Airport, Johannesburg; Chief Dawid Stuurman International Airport, Port Elizabeth; King Shaka International Airport, Durban;

Civil Aviation Authority



GEN 1.3-2 15 OCT 22

Polokwane International Airport, Polokwane; Kruger Mpumalanga International Airport, Nelspruit; Upington International Airport, Upington; Pilanesberg International Airport, Pilanesberg.

International flights may divert to Bram Fischer Airport, Bloemfontein when necessary. International flights so diverted and everything aboard them will remain "in transit" until the aircraft proceeds to its original destination. No passenger will be permitted to leave the flight at Bram Fischer Airport.

2 Immigration requirements

2.1 Visas are normally not required of passengers arriving and departing on the same through flight or transferring to another flight at the same airport. Transit passengers wishing to leave the transit areas must obtain visas.

2.2 To gain entry into the Republic of South Africa, a visitor or a person seeking admission for a temporary stay, must comply with the requirements of the Aliens Control Act, 96 (Act 96 of 1991). He must inter alia be in possession of a valid passport, duly visaed for entry into the Republic of South Africa if not exempt from the visa requirements of the Republic of South Africa, and must satisfy the passport control officer at the port of entry that he is in possession of a fully paid up return or onward ticket and that he has sufficient means to sustain himself for a reasonable period after his arrival, that he has never been refused entry into, deported from, or ordered to leave the Republic of South Africa, that he has never been convicted of any crime in any country and is not suffering from tuberculosis, any other infectious or contagious disease or any mental or physical deficiency.

A person who cannot comply with the aforementioned requirements, may be refused entry. Public and private conveyors will be penalised for conveying any person not been in possession of the necessary documentation and non-compliance with the relevant entry requirements.



2.3 The crew members licence or certificate is accepted in lieu of passport or visa for temporary admission into the Republic of South Africa in respect of flight crew member on a scheduled service who retains his licence in his possession when embarking or disembarking, who remains at the aerodrome where the aircraft has stopped or within the confines of the cities adjacent thereto, and who departs on the same aircraft or on the next regularly scheduled flight out of the Republic of South Africa. A crew member who enters the Republic of South Africa as a passenger in order to join an aircraft must be in possession of passport, duly visaed where required.

2.4 Passengers arriving or departing must complete an arrival/departure form (BI-55) which must be handed to the passport control officer.

2.5 Passport and Visas

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The requirements are as follows:-

- a) Republic of South Africa citizens: a valid Republic of South Africa passport or travel document,
- b) a citizen of the United Kingdom and Colonies or the Republic of Ireland: a valid passport- no visa is required, provided the visa exemption has not been withdrawn.
- c) a citizen of Switzerland or of Liechtenstein: a valid passport- no visa is required for temporary visits.
- d) Nationals of Botswana and Eswatini: a valid passport or travel document- no visa is required for visits of 90 days or less; Lesotho - no visa is required for visits of 30 days or less; provided that the visa exemption has not been withdrawn.
 - e) Other foreign nationals or stateless persons: a valid passport or valid recognised travel document duly visaed for entry into the Republic of South Africa.

2.6 Temporary residence permits

The necessary permits or visas for the purpose of entry should be obtained before entry to the Republic of South Africa. Upon arrival temporary residence permits are issued to foreign visitors, at a port of entry, by Immigration Officers, appointed by the Department of Home Affairs. This specifies their purpose and duration of entry. The conditions stipulated in the permit must strictly be adhered to and the holder thereof may not without the authority of the Department of Home Affairs alter the purpose for which he/she was admitted, accept or change employment, engage in any business or profession or remain in the country later than the expiry date of the permit.

2.7 Employment

Without special permission from the Director-General for the Interior aliens are not allowed to accept employment. A person coming to the Republic of South Africa on contract or for employment must produce a work permit to the passport control officer.



GEN 1.3-4 15 OCT 22

2.8 Departure

A person leaving the country must be in possession of a valid passport. A Republic of South Africa citizen who is also a national of another country and who is in possession of a foreign passport, must in addition travel on the Republic of South Africa passport, together with a letter of exemption, issued in terms of the South African Citizenship Act, 88 (Act 88 of 1995) by the Department of Home Affairs.

3 Public health requirements

Disembarking passengers must be in possession of a valid international certificate of vaccination against;

- a) Yellow fever when coming from yellow fever endemic areas;
- b) Cholera when coming from infected areas.

All parties are please to take note that the implementation of the Immigration Act, 13 (Act 13 of 2002) may influence the present requirements and procedures.



GEN 1.4 ENTRY, TRANSIT AND DEPARTURE OF CARGO

1 Customs requirements concerning cargo and other articles

Every article imported for trade or commercial purposes is taxed according to the South African Customs and Excise Tariff and should be declared separately.

Not more than R500 in South African bank notes may be imported whilst the importation of unwrought, unworked or semi-manufactured gold is subject to a permit issued by the South African Treasury.

The importation of the following articles is prohibited or restricted: live animals; any animal product (e.g. meat, biltong, milk e.t.c); drugs, e.g. opium, cocaine, morphine, marijuana (Indian hemp); flick knives and dangerous weapons; indecent, obscene or objectionable books, periodicals, photographs, films and other articles; agricultural products or any plants, seeds, bulbs, etc

2 Agricultural quarantine requirements

In terms of the Animal Diseases Act, 1984 (Act 35 of 1984) no person may import into the Republic any animal, parasite, infectious or contaminated thing except under the authority of a veterinary permit and in compliance with any condition imposed in such permit, issued by the Director of Veterinary Services. This restriction also applies in respect of such imports from Botswana, Lesotho and Swaziland.

Requirements for the importation and the application for a veterinary import permit for livestock, biological products, vaccines and animal materials can be obtained from:

Director of Veterinary Services Private Bag X138 Pretoria 0001 Telegraphic address; PRIVET Telephone: +27 12 319 7514 Telefax: +27 12 329 829

Animal in the above context means any mammal, bird (poultry), fish, reptile, or amphibian vertebrate including their carcass.

Permits and requirements for import of plants, plant products, pathogens, exotic animal, infectious thing, insects, growth mediums, honey, beeswax or used apiary equipment except on the authority of a permit and can be obtained from: Director

Directorate of Plant Health Private Bag X14 Gezina 0001



GEN 1.4-2 15 JAN 15

> Contact Person: Jeremiah Manyuwa Telephone: +27 12 319 6102 Telefax: +27 12 319 6370

The above listed material may be imported from inter alia neighbouring states and must be cleared by a plant inspector of the Department of Agriculture. The imported products may only be removed from the aerodrome after written permission is received from the plant inspector.

Visit the Department of Agriculture, Forestry and Fisheries website at www.nda.agric.za for contact details of Plant Health Inspectors.



GEN 1.5-1 15 JAN 15

GEN 1.5 AIRCRAFT INSTRUMENTS, EQUIPMENT AND FLIGHT DOCU-MENTS

1 General

1.1 Commercial air transport aircraft operating in the Republic of South Africa must adhere to the provisions of South African Civil Aviation Regulations, 2011 as specified below:

1.2 The flight documents to be carried for all flights within the Republic are governed in the following Parts of the Civil Aviation Regulations, 2011, as listed below;

- a) Sub-part 3 of Part 91.
- b) Sub-part 4 of Part 121
- c) Sub-part 4 of Part 127.
- d) Sub-part 4 of Part 135

1.3 Flight Folios

Regulation 91.03.5(1) of Part 91 - General operating and flight rules, requires the owner or operator of a South African registered aircraft to carry a full flight folio at all times. Requirements of the flight folio are contained in sub-regulation (2) to (5) of the said regulation. In terms of regulations 121.04.1(1), 127.041(1) and 135.04.1(1) of the Civil Aviation Regulations 2011, the operator of a large commercial air transport aeroplane, the owner of a commercial air transport helicopter engaged in a scheduled public air transport service, and the operator of a small commercial air transport aeroplane, respectively shall ensure that copies are retained in a safe place at the first point of departure in respect of each flight undertaken by the aeroplane, helicopter.

2 Equipment to be carried by all types of flights

The instruments and equipment to be carried for all flights within the Republic are governed in the following Parts of the Civil Aviation Regulations, 2011, as listed below;

- a) Sub-part 4 of Part 91
- b) Sub-part 5 of Part 121
- c) Sub-part 5 of Part 127

3 Communication and Navigation Equipment

The communication and navigation equipment to be carried for all flights within the Republic are governed in the following Parts of the Civil Aviation Regulations, 2011, as listed below;

a) Sub-part 5 of Part 91

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GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS

The following is a list of civil aviation legislation, air navigation regulations, e.t.c., in force in the Republic of South Africa. It is essential that persons engaged in air operations in this territory be acquainted with the relevant regulations. Copies of the documents can be obtained from:

Government Printer Bosman Street Pretoria (Private Bag X85, Pretoria 0001); or The South African Civil Aviation Authority (SACAA) website at www.caa.co.za

ACTS		
TITLE	CONTENTS	
Carriage by Air Act, 1946 (Act 17 of 1946)	Act to give effect to a Convention for the unification of certain rules relating to international carriage by air; to make provision for applying the rules contained in the said Convention, subject to exceptions, adoptions and modifications, to carriage by air which is not international carriage within the meaning of the Convention; and for matters incidental thereto.	
Civil Aviation Act, 2009 (Act 13 of 2009)	Act to repeal, consolidate and amend the aviation laws giving effect to certain International Aviation Convention and to provide for control and regulation of aviation in the Republic. To establish a SACAA and an Independent Aviation Safety Investigation Board. To give effect to certain International Conventions and to provide for effective control of safety and security of aircraft, airports, e.t.c.	
Air Services Licensing Act, 1990 (Act 115 of 1990)	Act to provide for the establishment of an Air Service Licensing Council; for the licensing and control of domestic air services; and for matters connected therewith.	
Airports Company Act, 1993 (Act 44 of 1993)	Act to provide for the establishment of a public company and the transfer of the States shares in the company; to regulate certain activities at the company airports; and to provide for matters connected therewith.	
Air Traffic and Navigation Services Company Act, 1993 (Act 45 of 1993)	Act to provide for the transfer of certain assets and functions of the State to a public company to be established and for matters connected therewith.	
Convention on the International Recognition of Rights in Aircraft Act, 1993 (Act 59 of 1993)	Act to provide for the application in the Republic of the Convention on the International Recognition of Rights to make special provision for the hypothecation of aircraft and shares in aircraft; and to provide for matters connected therewith.	

AIP South Africa

ACTS TITLE CONTENTS International Air Services Act, 1993 (Act 60 of 1993) Act to provide for the establishment of an International Air Services Council; for the regulation and control of international air services; and for matters connected therewith. South African Civil Aviation Authority Levies Act, 1998 (Act 41 of 1998) Act to provide for the imposition of levies by the South African Civil Aviation Authority; and to provide for matters connected therewith. Convention on International interests in mobile equipment Act, 2007 (Act 4 of 2007) Act to enact the convention on International interest in Mobile Equipment and the protocol to the Convention on International Interests in Mobile Equipment on matters specific to aircraft equipment into law.

REGULATIONS			
TITLE	CONTENTS		
Domestic Air Services Regulations, 1991	Definitions, classes of air services, types of air services, categories of aircraft, insurance, manner and form of application for a licence, requirements for the operation of an air service in a safe and reliable manner. Manner and form of application for an operating certificate, contents of notices of application, operations manual, Form of temporary licence, form of licence, form of operating licence, form of surrender of licence, form of summons, manner and form of notification. Contents of representations, submissions of statistical information, register of licences, register of operating certificates, fees, passenger air transport tickets, airway bills, passenger lists, inspections.		
International Air Services Regulations, 1994.	Definitions, classes of international air services, types of international air services, categories of aircraft, insurance, application for a licence. Requirements in respect of aircraft, other than South African aircraft, concerning application for exemption. Contents of notice of issuing or amendment of licence, application for permit, requirements in respect of international air service concerning application for permit or amendment thereof. Tour operators permit, period of validity, period of validity of permit, application for operating certificate, contents of notice of application for licence or amendment thereof. Contents of notice of application for permit of amendment thereof. Contents of notice of issuing or amendment of permit. Operations manual, form of temporary licence, form of licence, form of permit, form of operating certificate, form of summons. Manner and form of notification, contents of representations, furnishing of statistical information.		

AMDT 3/19

GEN 1.6-2 15 JUL 19



GEN 1.6-3 15 JUL 19

REGULATIONS		
TITLE	CONTENTS	
Civil Aviation Regulations, 2011.	CONTENTS Definitions and Abbreviations, Procedures for Making Regulations and Technical Standards, Granting Exemptions and Notifying Differences, Aviation Accidents and Incidents, Powers and Duties of Authorised Officers, Inspectors and Authorised Persons, Certification Procedures for Products and Parts, Airworthiness: Non-type Certificated Aircraft, Engine Emission Certification, Noise Certification, General Maintenance Rules, Maintenance Rules - Non-type Certificated Aircraft, Registration and Marking, Leasing of Aircraft, Flight Simulator Training Devices, Pilot Licensing, National Pilot Licensing, Air Traffic Service Personnel Licensing, Aircraft Maintenance Engineer Licensing, Medical Certification, Glider Pilot Licence, Free Balloon Pilot Licence, General Aviation and Operating Flight Rules, Conveyance of Dangerous Goods, Corporate Operations, Operation of Non-type Certificated Aircraft, Commercial Operation of Non-type Certificated Aircraft, Operation of Parachutes and Drop Zones, Air Cargo Security, Aviation Security Training Organisations, Aviation Security Training Organisations, Aviation Pandemic Preparedness Plan, Air Transport Operations: passengers, cargo and mail, Helicopter operations: passengers or Cargo, Air Transport Operations, Air Transport Operations	
The Mortgaging of Aircraft Regulations, 1997	Enforcement, Fees and Charges, Administration Definitions, deed of mortgage, discharge of mortgage,	
	declaration of transmission of rights in mortgage, certificate of mortgage, register of aircraft mortgages, fees, powers of attorney and completion of documents, short title and commencement.	

GEN 1.6-4 15 JUL 19

AIP South Africa

DETERMINATIONS		
South African Civil Aviation Authority Levies Act, 1998.	Determination to impose a fuel levy on the sale of aviation fuel.	

TITLE	CONTENTS
Airport Slot Coordination Regulations, 2012	Definitions, Designation of coordinated airports, Designation of schedules facilitated airports, Withdrawal of designation of a coordinated or a schedules facilitated airport, Relaxation of the designation of an airport, Temporary designation of an airport, Coordinated airports and special events, Appointment of the coordinator, Functions of the coordinator, The schedules facilitation function, Directives, Prohibition on acting as a coordinator or schedules facilitator, Appointment of the Slot Coordination Committee, Functions of the committee, Meetings of the committee, Functions of the committee, Meetings of the committee, Sub-committees, The determination of coordination parameters, Prohibition on using a coordinated airport without a slot, Requests for the allocation of slots, Preferences in the allocation of slots, Historic slots, Slot requests submitted after the initial submission deadline, Waiting list, Allocation of slots in respect of a designated period, Rules and guidelines on slot allocation, Provision of information on slot allocation The nature of slots, Other conditions of use, Changes to ad hoc slots, Types of misuse of slots, Misuse of slots, Prublication of penalty, The withdrawal of slots, Provision of information to the coordinator, Exchange of information, Exclusion of liability, Short title and commencement.



GEN 1.7 Differences from ICAO Standards, Recommended Practices and Procedures

A list of significant differences between national regulations and practices of the State and related ICAO provisions, including:

- 1) provision affected (Annex as amended, paragraph); and
- 2) difference in full text.

1 Annex 1 - Personnel Licensing

CHAPTER 1

Paragraph reference: 1.2.

1.2.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 61.01.02(1) states that no person may act as a pilot of a South African registered aircraft, except in the case of dual instruction with an appropriately rated flight instructor, unless such person holds a valid pilot licence with applicable ratings issued, revalidated or re issued by the Director or by an appropriate authority validated by the Director in terms of The Civil Aviation Regulations, 2011, Part 61 or Part 62: Provided that a student pilot licence may have been issued without a class rating or type rating.

1.2.1.1

South Africa has not implemented a multi-crew pilot and flight navigator license.

1.2.2.2

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 61.01.13(4) states that before the Director validates or converts a foreign licence or rating for a commercial air transport operation or a PPL with Instrument Rating (PPL/IR), he or she must confirm the validity of the foreign licence or rating with the appropriate authority of the issuing Contracting State.

1.2.2.3

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 61.01.13(5) requires that certain theoretical knowledge examinations and a skills tests are required before a licence may be validated.

1.2.5.2.2

South Africa's regulation is less exacting in that the South African Civil Aviation Regulations, 2011, 67.00.6 (1)(d) requires that commercial pilots over the age of 40

GEN 1.7-2 15 JAN 23



years, in a single pilot operation do not have their medical assessment validity reduced to 6 months unless there is a risk factor where 6 monthly reports must be issued.

1.2.5.2.4

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 67.00.6 (3)(b) requires that the holders of Class 2 and 3 medical certificates who have passed their 40th birthday have the period of validity for their medical assessment reduced to 12 months and 67.00.6 (4)(b) states that the period of validity of Class 4 medical certificates are reduced to 36 months when the pilot has passed his or her 40th birthday.

1.2.5.2.5

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 67.00.6 (3)(b) requires that the holders of Class 2 and 3 medical certificates who are over 40 years of age are required to submit a medical every twelve months. There is currently no such restriction on the holder of a Class 4 medical certificate, however, this will be amended during 2013 to fall in line with the previous provision.

1.2.9.2

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 65.01.8 requires that Air traffic service personnel shall have sufficient ability in reading, speaking and understanding the English language to enable them to adequately carry out their responsibilities as air traffic service personnel and have attained a minimum of ICAO level 4 in their English language proficiency examination.

CHAPTER 2

Paragraph reference: 2.1

2.1.9.2

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, Part 61 make no allowance for crediting of co-pilot flight time in aircraft certified for single pilot operation, and flown with a co-pilot, unless this is in a part 121, 135 or 127 operation, which requires 2 pilots (at night or IFR): therefore, in a corporate flight or private flight, even though operated as a multi-crew operation, no co-pilot time can be logged towards a higher licence.

2.1.9.4

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, Part 61 makes provision for a student pilot attending an integrated course to be credited with PIC instrument time when flying under supervision provided all logbook entries are certified by the instructor supervising the flight.



GEN 1.7-3 15 JAN 23

Paragraph reference: 2.2

2.2.2.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 61.02.5(d) states that a student pilot is not allowed to fly solo on an international flight.

Paragraph reference: 2.3

2.3.2.2

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 61.10.1(2) state that a night rating is required to exercise the privileges of a licence by night. The night rating includes theoretical knowledge and instrument instruction as well as a skills test to be completed and that a night rating issued.

2.3.3.1.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011 indicates that an applicant for a Private Pilot License (A) must complete not less than 45 hours of total flight time in an aeroplane.

2.3.4.1.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011 indicates that an applicant for a Private Pilot License (H) must complete not less than 50 hours of total flight time in a helicopter.

2.3.4.1.2 South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011 indicates that an applicant for a Private Pilot License (H) must complete not less than 15 hours of solo flight time in a helicopter.

Paragraph reference 2.4

2.4.6

South Africa has not implemented the licensing requirements for the issuance of an airship category rating.

Paragraph reference 2.6

2.6.4.1.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011 indicates an applicant for the issuance of an Airline Transport Pilot License (H) is required to have completed not less than 1500 hours flight time as a pilot of helicopters.

GEN 1.7-4 15 JAN 23



Paragraph reference 2.10

2.10.1.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011 indicates an applicant for the issuance of a free balloon pilot license shall not be less than 17 years old.

2.10.1.3.3 1

South Africa's regulation is more exacting in that the holder of a free balloon license cannot exercise their privileges of the license at night.

Paragraph reference: 2.9

2.9.1.5

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 61.00.7 requires that a commercial glider pilot have a Class 1 medical certificate and that a recreational glider pilot have a Class 2 medical certificate.

CHAPTER 4

Paragraph reference: 4.2

4.2.1.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011, 61.02.1 states that for aircraft maintenance engineers wishing to be issued with Category A, C, W & X rating age shall be 19 years or older and for Category B & D ratings shall be 21 years or older.

Paragraph reference: 4.3

4.3.1

Student air traffic controller not implemented. South African has implemented air traffic service assistant ratings. South African Civil Aviation Regulations, 2011, Part 65, subparts 3 -7.

Paragraph reference: 4.4

4.4.1.1

South Africa's regulation is different in character in that the South African Civil Aviation Regulations, 2011, 65.02.1(a) states that the applicant for an air traffic service licence



GEN 1.7-5 15 OCT 23

requires age to be not less than 18 years of age; a licence may be issued without ratings. Also see subparts 3 - 7.

Paragraph reference 4.6

4.6.1

South Africa does not license Flight Operations Officers or issue a flight dispatcher license.

2 Annex 2- Rules of the Air: Tenth Edition

CHAPTER 3

Paragraph reference: 3.6

3.6.2.2

South Africas Regulation is less protective in that the South African Civil Aviation Regulations, 2011. Regulation 91.03.4 9(12) (c) states that if the estimated time at the next applicable reporting point, flight information regional boundary, or aerodrome of intended landing, whichever comes first, is found to be in error in excess of three minutes from that notified to the responsible ATSU, a revised estimated time shall be notified to such ATSU as soon as possible; or... ICAO requires two minutes.

3 Annex 3 - Meteorological Services for International Air Navigation

CHAPTER 1. DEFINITIONS

Reference: 1.1

Aerodrome elevation. The elevation of the highest point of the landing area.

Remarks: Practiced but not yet transposed into national regulations.

ICAO meteorological information exchange model (IWXXM). A data model for representing aeronautical meteorological information.

Remarks: Practiced but not yet transposed into national regulations.

International airways volcano watch (IAVW). International arrangements for monitoring and providing warnings to aircraft of volcanic ash in the atmosphere.

Note. — The IAVW is based on the cooperation of aviation and non-aviation operational units using information derived from observing sources and networks that are provided by



AIP South Africa

States. The watch is coordinated by ICAO with the cooperation of other concerned international organizations.

Remarks: State is not a designated IAVW

CHAPTER 1. DEFINITIONS

Reference: 1.2

For the purpose of this Annex, the following terms are used with a limited meaning as indicated below:

a) to avoid confusion in respect of the term "service" between the meteorological service considered as an administrative entity and the service which is provided, "meteorological authority" is used for the former and "service" for the latter;

b) "provide" is used solely in connection with the provision of service;

c) "issue" is used solely in connection with cases where the obligation specifically extends to sending out the information to a user;

d) "make available" is used solely in connection with cases where the obligation ends with making the information accessible to a user; and

e) "supply" is used solely in connection with cases where either c) or d) applies.

Remarks: Practiced but not yet transposed into national regulations.

CHAPTER 2. GENERAL PROVISIONS

Paragraph reference: 2.2.7

Owing to the variability of meteorological elements in space and time, to limitations of observing techniques and to limitations caused by the definitions of some of the elements, the specific value of any of the elements given in a report shall be understood by the recipient to be the best approximation of the actual conditions at the time of observation.

Note. — Guidance on the operationally desirable accuracy of measurement or observation is given in Attachment A.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 2.2.8

Owing to the variability of meteorological elements in space and time, to limitations of forecasting techniques and to limitations caused by the definitions of some of the elements, the specific value of any of the elements given in a forecast shall be understood by the recipient to be the most probable value which the element is likely to assume during the period of the forecast. Similarly, when the time of occurrence or change of an element is



given in a forecast, this time shall be understood to be the most probable time.

Note.— Guidance on the operationally desirable accuracy of forecasts is given in Attachment B.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 2.2.9

The meteorological information supplied to the users listed in 2.1.2 shall be consistent with Human Factors principles and shall be in forms which require a minimum of interpretation by these users, as specified in the following chapters.

Note.— Guidance material on the application of Human Factors principles can be found in the Human Factors Training Manual (Doc 9683).

Remarks: Practiced but not yet transposed into national regulations.

CHAPTER 3. GLOBAL SYSTEMS, SUPPORTING CENTRES AND METEOROLOGICAL OFFICES

Paragraph reference: 3.3.3

The aerodromes for which landing forecasts are required shall be determined by regional air navigation agreement.

Remarks: Practiced but not yet transposed into national regulations.

CHAPTER 4. METEOROLOGICAL OBSERVATIONS AND REPORTS

Paragraph reference: 4.3.3

At aerodromes that are not operational throughout 24 hours in accordance with 4.3.1, METAR shall be issued prior to the aerodrome resuming operations in accordance with regional air navigation agreement.

Remarks: Practiced but not yet transposed into national regulations.

CHAPTER 5. AIRCRAFT OBSERVATIONS AND REPORTS

Paragraph reference: 5.3.4

In the case of the requirement to report during the climb-out phase, an aircraft shall be designated, at approximately hourly intervals, at each aerodrome to make routine observations in accordance with 5.3.1.





Remarks: Not yet transposed into national regulations.

Paragraph reference: 5.4

Aircraft not equipped with air-ground data link shall be exempted from making routine aircraft observations.

Remarks: Implemented in practice but not yet transposed into national regulations.

Paragraph reference: 5.6

When other meteorological conditions not listed under 5.5, e.g. wind shear, are encountered and which, in the opinion of the pilot-in-command, may affect the safety or markedly affect the efficiency of other aircraft operations, the pilot-in-command shall advise the appropriate air traffic services unit as soon as practicable.

Note. — Icing, turbulence and, to a large extent, wind shear are elements which, for the time being, cannot be satisfactorily observed from the ground and for which in most cases aircraft observations represent the only available evidence.

Remarks: Implemented in practice but not yet transposed into national regulations.

CHAPTER 6. FORECASTS

Paragraph reference: 6.5.2

When the density of traffic operating below flight level 100 warrants the issuance of AIRMET information in accordance with 7.2.1, area forecasts for such operations shall be prepared in a format as agreed between the meteorological authorities in the States concerned. When abbreviated plain language is used, the forecast shall be prepared as a GAMET area forecast, employing approved ICAO abbreviations and numerical values; when chart form is used, the forecast shall be prepared as a combination of forecasts of upper wind and upper-air temperature, and of SIGWX phenomena. The area forecasts shall be issued to cover the layer between the ground and flight level 100 (or up to flight level 150 in mountainous areas, or higher, where necessary) and shall contain information on en-route weather phenomena hazardous to low-level flights, in support of the issuance of AIRMET information, and additional information required by low-level flights.

Remarks: Practice but not yet transposed into national regulations.

CHAPTER 9. SERVICE FOR OPERATORS AND FLIGHT CREW MEMBERS

Paragraph reference: 9.1.2

Meteorological information supplied to operators and flight crew members shall cover the

AMDT 4/23



flight in respect of time, altitude and geographical extent. Accordingly, the information shall relate to appropriate fixed times, or periods of time, and shall extend to the aerodrome of intended landing, also covering the meteorological conditions expected between the aerodrome of intended landing and alternate aerodromes designated by the operator.

Remarks: Practiced but not yet transposed into national regulations.

CHAPTER 9. SERVICE FOR OPERATORS AND FLIGHT CREW MEMBERS

Paragraph reference: 9.1.3

Meteorological information supplied to operators and flight crew members shall be up to date and include the following information, as agreed between the meteorological authority and the operators concerned:

- a) forecasts of:
- 1) upper wind and upper-air temperature;
- 2) upper-air humidity;
- 3) geopotential altitude of flight levels;
- 4) flight level and temperature of tropopause;
- 5) direction, speed and flight level of maximum wind;
- 6) SIGWX phenomena; and
- 7) cumulonimbus clouds, icing and turbulence;

Note 1.— Forecasts of upper-air humidity and geopotential altitude of flight levels are used only in automatic flight planning and need not be displayed.

Note 2.— Forecasts of cumulonimbus clouds, icing and turbulence are intended to be processed and, if necessary, visualized according to the specific thresholds relevant to user operations.

b) METAR or SPECI (including trend forecasts as issued in accordance with regional air navigation agreement) for the aerodromes of departure and intended landing, and for take-off, en-route and destination alternate aerodromes;

c) TAF or amended TAF for the aerodromes of departure and intended landing, and for take-off, en-route and destination alternate aerodromes;

- d) forecasts for take-off;
- e) SIGMET information and appropriate special air-reports relevant to the whole route;

Note.— Appropriate special air-reports will be those not already used in the preparation of SIGMET.

f) volcanic ash and tropical cyclone advisory information relevant to the whole route;
 g) as determined by regional air navigation agreement, GAMET area forecasts and/or area forecasts for low-level flights in chart form prepared in support of the issuance of AIRMET information, and AIRMET information for low-level flights relevant to the whole route;



GEN 1.7-10 15 OCT 23

h) aerodrome warnings for the local aerodrome;

i) meteorological satellite images;

j) ground-based weather radar information; and

k) space weather advisory information relevant to the whole route.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 9.1.9

When necessary, the meteorological authority of the State providing service for operators and flight crew members shall initiate coordinating action with the meteorological authorities of other States with a view to obtaining from them the reports and/or forecasts required.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 9.1.10

Meteorological information shall be supplied to operators and flight crew members at the location to be determined by the meteorological authority, after consultation with the operators concerned and at the time agreed between the aerodrome meteorological office and the operator concerned. The service for pre-flight planning shall be confined to flights originating within the territory of the State concerned. At an aerodrome without an aerodrome meteorological office at the aerodrome, arrangements for the supply of meteorological information shall be as agreed between the meteorological authority and the operator concerned.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 9.2.1

Briefing and/or consultation shall be provided, on request, to flight crew members and/or other flight operations personnel. Its purpose shall be to supply the latest available information on existing and expected meteorological conditions along the route to be flown at the aerodrome of intended landing, alternate aerodromes and other aerodromes as relevant, either to explain and amplify the information contained in the flight documentation, or as agreed between the meteorological authority and the operator concerned, in lieu of flight documentation.

Remarks: Practiced but not yet transposed into national regulations.

AMDT 4/23



CHAPTER 11. REQUIREMENTS FOR AND USE OF COMMUNICATIONS

Paragraph reference: 11.1.1

Suitable telecommunications facilities shall be made available to permit aerodrome meteorological offices and, as necessary, aeronautical meteorological stations to supply the required meteorological information to air traffic services units on the aerodromes for which those offices and stations are responsible, and in particular to aerodrome control towers, approach control units and the aeronautical telecommunications stations serving these aerodromes.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 11.1.2

Suitable telecommunications facilities shall be made available to permit meteorological watch offices to supply the required meteorological information to air traffic services and search and rescue services units in respect of the flight information regions, control areas and search and rescue regions for which those offices are responsible, and in particular to flight information centres, area control centres and rescue coordination centres and the associated aeronautical telecommunications stations.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 11.1.3

Suitable telecommunications facilities shall be made available to permit world area forecast centres to supply the required world area forecast system products to aerodrome meteorological offices, meteorological authorities and other users.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 11.1.4

Telecommunications facilities between aerodrome meteorological offices and, as necessary, aeronautical meteorological stations and aerodrome control towers or approach control units shall permit communications by direct speech, the speed with which the communications can be established being such that the required points may normally be contacted within approximately 15 seconds.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 11.1.8

Suitable telecommunications facilities shall be made available to permit meteorological

GEN 1.7-12 15 OCT 23

AIP South Africa

offices to exchange operational meteorological information with other meteorological offices.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 11.2

Meteorological bulletins containing operational meteorological information to be transmitted via the aeronautical fixed service or the public Internet shall be originated by the appropriate meteorological office or aeronautical meteorological station.

Note. — Meteorological bulletins containing operational meteorological information authorized for transmission via the aeronautical fixed service are listed in Annex 10, Volume II, Chapter 4, together with the relevant priorities and priority indicators.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 11.4

The content and format of meteorological information transmitted to aircraft and by aircraft shall be consistent with the provisions of this Annex.

Remarks: Practiced but not yet transposed into national regulations.

Paragraph reference: 11.5

D-VOLMET shall contain current METAR and SPECI, together with trend forecasts where available, TAF and SIGMET, special air-reports not covered by a SIGMET and, where available, AIRMET.

Note.— The requirement to provide METAR and SPECI may be met by the data link-flight information service (D-FIS) application entitled "Data link-aerodrome routine meteorological report (D-METAR) service"; the requirement to provide TAF may be met by the D-FIS application entitled "Data link-aerodrome forecast (D-TAF) service"; and the requirement to provide SIGMET and AIRMET messages may be met by the D-FIS application entitled "Data link-SIGMET (D-SIGMET) service". The details of these data link services are specified in the Manual of Air Traffic Services Data Link Applications (Doc 9694).

Remarks: Practiced but not yet transposed into national regulations.

AMDT 4/23



4 Annex 4 - Aeronautical Charts

CHAPTER 1. Definitions, Applicability and Availability

1.1 The following definitions are different from those published in the Annex: Minimum Obstacle Clearance Altitude. The lowest altitude which may be used which will provide a minimum clearance of 1500ft (450m) above all objects located in an area contained within a sector of a circle 25NM (46km) radius centered on a radio aid to navigation, significant point, the Aerodrome Reference Point (ARP) or the Heliport Reference Point (HRP).

Prohibited Area. An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of civilian aircraft within the designated airspace is not permitted at any time under any circumstances.

CHAPTER 13. AERODROME/HELIPORT CHART ---

13.5True and Magnetic North arrows and magnetic variation to the nearest degree and annual change of the magnetic variation shall be shown.

Partially implemented since November 2019.

13.6.1 This chart shall show: c) elevations and geoid undulations, to the nearest half-metre or foot, of the precision approach runway threshold, the geometric centre of the touchdown and lift-off area, and at the highest elevation of the touchdown zone of a precision approach runway;

Partially implemented since November 2019.

5 Annex 5 - Units of Measurement to be Used in Air and Ground Operations NIL

6 Annex 6 - Operation of Aircraft

CHAPTER 6 PART 1 Paragraph reference: 6.2

6.2.2

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011 Part 91.04.13 (5) states that "no owner or operator of an aircraft used in general aviation operations for which the maximum certificated passenger seating is 20 or more on which is carried a cabin attendant shall operate the aircraft unless such aircraft is equipped with universal precaution kits." Technical standard

GEN 1.7-14 15 OCT 23



91.04.13 stipulates that such owner or operator shall ensure each aircraft carries on board at least two universal precaution kits. ICAO requires two only for aeroplanes authorized to carry more than 250 passengers.

Paragraph reference: 6.7

6.7.3

South Africa's regulation is less protective in that the South African Civil Aviation Regulations, 2011. Regulation 91.04.29 states "No person shall operate a pressurized aeroplane, for which the individual certificate of airworthiness was first issued on or after 1 January 1990, above 25 000 ft unless such aeroplane is equipped with a device to provide positive warning to the flight crew of any dangerous loss of pressurization." ICAO requires aeroplanes newly introduced into service on or after 1 July 1962.

6.7.4

South Africa's regulation is less protective in that the South African Civil Aviation Regulations, 2011. Regulation 91.04.29 states "No person shall operate a pressurized aeroplane, for which the individual certificate of airworthiness was first issued on or after 1 January 1990, above 25 000 ft unless such aeroplane is equipped with a device to provide positive warning to the flight crew of any dangerous loss of pressurization." ICAO requires the date to be after 1 July 1962.

Paragraph reference: 6.15

6.15.4

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011. Regulation 121.05.5(3) All turbine-engined aeroplanes authorised under this Part (Part 121) to carry passengers shall be equipped with a TAWS which has a predictive terrain avoidance function.

ICAO only requires turbine powered aeroplanes above 5 700 kg to have forward looking (predictive) TAWS

South Africa's regulation is less protective in that the South African Civil Aviation Regulations, 2011. Regulation 135.05.5(1)(2)(3) All turbine-engine aeroplanes of a maximum certificated take-off mass in excess of 15 000 kg, for which the individual certificate of airworthiness is first issued on or after 1 July 1979, shall be equipped with TAWS.

(2) All turbine-engine aeroplanes of a maximum certificated take-off mass in excess of 5 700 kg or authorised to carry more than nine passengers for which the individual certificate of airworthiness is first issued on or after 1 January 2010, shall be equipped with a TAWS which has a predictive terrain avoidance functions.

(3) All turbine-engine aeroplanes of a maximum certificated take-off mass in excess of 5 700 kg or authorised to carry more than nine passengers, shall be equipped with a TAWS which has a predictive terrain avoidance function.



ICAO 6.15.5 Recommendation. - All turbine-engine aeroplanes of a maximum certificated take-off mass of 5 700 kg or less and authorised to carry more that five but not more than nine passengers should be equipped with a ground proximity warning system which provides the warnings of 6.15.8 a) and c), warning of unsafe terrain clearance and a forward looking terrain avoidance function.

Paragraph reference: 6.18

6.18.2

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011. Regulation 135.05.8(1). The operator of a large turbine-engine aeroplane shall not operate the aeroplane unless - (a) such aeroplane is equipped with a serviceable ACAS meeting ACAS II specifications, as prescribed in technical standard 91.04.31 of Document SA-CATS 91; and ICAO Annex 6 Part 1, 6.18.2 From 1 January 2005, all turbine-engined aeroplanes of a maximum certificated take-off mass in excess of 5 700 kg or authorised to carry more than 19 passengers shall be equipped with an airborne collision avoidance system (ACAS II)

SACAR 135.05.8 Says all aeroplanes above 5 700 kg regardless of passenger seats shall have ACAS II.

Paragraph reference: 6.18

6.18.3

South Africa's regulation is less protective in that the South African Civil Aviation Regulations, 2011. Regulation 91.04.28 Except as otherwise provided for in Part 121 and Part 135, no person may operate a turbine-engine aeroplane of a maximum certificated take-off mass in excess of 15 000 kg or authorised to carry more than 30 passengers, for which the individual certificate of airworthiness was first issued after 1 January 2007, unless such aeroplane is equipped with an ACAS that meets the specifications prescribed in Document SA-CATS 91,

ICAO recommends all aeroplanes be fitted with ACAS II.

CHAPTER 2

PART 2

Paragraph reference: 2.4.12

2.4.12.1

South Africa's regulation is less protective in that the South African Civil Aviation Regulations, 2011. Regulation 91.04.23 (3) (listed a-j) conditions exempt aeroplanes from having to carry a ELT, and 406 MHz ELT's are not mandatory. Whereas ICAO,

GEN 1.7-16 15 OCT 23



states in Annex 6 Part 2 2.4.12.1 Recommendation.— All aeroplanes should carry an automatic ELT.

CHAPTER 3

PART 2

Paragraph reference: 3.6.3.1.1.3

South Africa's regulation is less protective in that the South African Civil Aviation Regulations, 2011. Regulation 91.04.10(2)(b)states "No owner or operator shall operate an aircraft engaged in international general aviation operations which is an aeroplane with an MCM exceeding 5 700 kg for which the individual certificate of airworthiness was first issued on or after 1 January 2005 unless such aeroplane is equipped with a Type IA FDR that complies with the requirements prescribed in Document SA-CATS 91 whereas ICAO CoA first issued on or after 1 January 1989 should be equipped with a Type II FDR.

Paragraph reference: 3.6.10.3

South Africa's regulation is less protective in that the South African Civil Aviation Regulations, 2011.

Regulation 91.04.28 "Except as otherwise provided for in Part 121 and Part 135, no person may operate a turbine-engine aeroplane of a maximum certificated take-off mass in excess of 15 000 kg or authorised to carry more than 30 passengers, for which the individual certificate of airworthiness was first issued after 1 January 2007, unless such aeroplane is equipped with an ACAS that meets the specifications prescribed in Document SA-CATS 91, ICAO 3.6.10.3 Recommendation - All turbine-engine aeroplanes of a maximum certificated take-off mass in excess of 5 700 kg but not exceeding 1 500 kg, or authorised to carry more than 19 passengers, for which the individual airworthiness certificate is first issued after 1 January 2008, should be equipped with an airborne collision avoidance system (ACAS II).

CHAPTER 3 PART 3 Paragraph reference: 3.4

3.4.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011. Regulation 127.08.10 states "The operator of a Class 3 helicopter carrying passengers shall not operate such helicopter under IMC or above more than three eights of clouds within a radius of five nautical miles of the helicopter unless the latest weather reports or forecasts and any combination of them indicate that the weather along the planned route (including take-off and landing) with due regard for the provision of Regulation 127.08.12 allows flight under VFR an existing ceiling prescribed minimum heights established in terms of Regulation 127.07.6, and that the weather is focused to remain so until at least one hour after the estimated time of



GEN 1.7-17 15 OCT 23

arrival at the destination aerodrome or alternate aerodrome". In other words, South Africa does not allow Class 3 helicopter operations under IMC. Whereas in 3.4.1 ICAO allows for Class 3 helicopters operations under IMC to be conducted only over a surface environment.

CHAPTER 2

PART 2

Paragraph reference: 2.2.5

2.2.5.3

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations,2011. Regulation 12.02.1(1) states, "The PIC of an aircraft involved in an accident within the Republic, or if he or she is killed or incapacitated, a flight crew member, or if there are no surviving flight crew members or if they are incapacitated, the operator or owner, as the case may be, shall, as soon as possible but at least within 24 hours since the time of the accident, notify -

(a) the Director;

(b)An ATSU; or

(c) The nearest police station, of such accident.

ICAO standard 2.2.5.3 requires "the nearest appropriate authority" to be notified.

CHAPTER 2

PART 3

Paragraph reference: 2.6

2.6.2.1

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011. Regulation 91.7.7(8) requires the cloud base to be 400ft above the operating minima associated with instrument approach procedure. Meteorological conditions at the alternate will exist from two hours before to two hours after the estimated time of arrival. ICAO standard 2.6.2.1 requires the alternate heliport to be at or above the heliport operating minima.

CHAPTER 2

PART 3

Paragraph reference: 2.7

2.7.3

South Africa's regulation is more exacting in that the South African Civil Aviation Regulations, 2011. Regulation 91.7.7(9) requires "Suitable offshore alternates for helicopters may be subject to the following -

(a) The offshore alternates shall be used only after passing a PNR. Prior to a PNR, onshore alternates shall be used;





(b) Mechanical reliability of critical control systems and critical components shall be considered and taken into account when determining the suitability of the alternate; (c)One-engine inoperative performance capability shall be attainable prior to arrival at the alternate;

(d) To the extent possible, deck availability shall be guaranteed; and

(e) Weather information must be reliable and accurate ICAO recommends offshore alternates not to be used when it is possible to carry enough fuel to have an onshore alternate. Offshore alternates should not be used in a hostile environment.

PANS - Training Doc 9868

NIL

7 Annex 7- Aircraft Nationality and Registration Marks

NIL

8 Annex 8- Airworthiness of Aircraft

CHAPTER 3

Paragraph 3.1

The Standards of this chapter are applicable in respect of all aircraft, except 3.3 and 3.4 which are not applicable in respect of all aircraft that are of a type of which the prototype was submitted to appropriate national authorities for certification before 13 June 1960.

RSA still issues Certificates of Airworthiness for aircraft that were type certificated prior to 13 June 1960, as long as it is still supported by the State of Design.

CHAPTER 4

Paragraph 4.2.1.5

The State of Design shall ensure that sensitive aviation security information is not transmitted when distributing mandatory continuing airworthiness information.

South Africa is yet to incorporate this annex provision into national regulations.

Paragraph 4.2.1.6

The State of Design shall ensure that sensitive aviation security information is securely transmitted to the appropriate authority in the States of Registry in accordance with Annex 17

South Africa is yet to incorporate this annex provision into national regulations.

AMDT 4/23



Paragraph 4.2.4.3

The State of Registry shall ensure that sensitive aviation security information is not transmitted when distributing mandatory continuing airworthiness information.

South Africa is yet to incorporate this annex provision into national regulations.

Paragraph 4.2.4.4

The State of Registry shall ensure that sensitive aviation security information is securely transmitted to the appropriate authority in the State of Design in accordance with Annex 17

South Africa is yet to incorporate this annex provision into national regulations.

CHAPTER 2

Paragraph 2.2.3

Performance data shall be determined and scheduled in the flight manual so that its application by means of the operating rules to which the aeroplane is to be operated in accordance with 5.2 of Annex 6, Part I, will provide a safe relationship between the performance of the aeroplane and the aerodromes and routes on which it is capable of being operated. Performance data shall be determined and scheduled for the following stages for the ranges of mass, altitude or pressure-altitude, wind velocity, gradient of the take-off and landing surface for landplanes; water surface conditions, density of water and strength of current for seaplanes; and for any other operational variables for which the aeroplane is to be certificated

South Africa has adopted USA FAR Airworthiness design standards, which does not fully comply with ICAO standards.

CHAPTER 4

Paragraph 4.2

Special consideration shall be given to design features that affect the ability of the flight crew to maintain controlled flight.

South Africa has adopted USA FAR Airworthiness design standards, which do not fully comply with ICAO standards.

Paragraph 4.5

Electrical bonding and protection against lightning and static electricity shall be such as to: a) protect the aeroplane, its systems, its occupants and those who come in contact with the aeroplane on the ground or water from the dangerous effects of lightning discharge and electrical shock; and

b) prevent dangerous accumulation of electrostatic charge.

GEN 1.7-20 15 OCT 23

AIP South Africa

South Africa has adopted USA FAR Airworthiness design standards, which do not fully comply with ICAO standards.

CHAPTER 6

Paragraph 6.4

The lights required by Annex 2 — Rules of the Air to be displayed by aeroplanes in flight or operating on the movement area of an aerodrome shall have intensities, colours, fields of coverage and other characteristics such that they furnish the pilot of another aircraft or personnel on the ground with as much time as possible for interpretation and for subsequent manoeuvre necessary to avoid a collision. In the design of such lights, due account shall be taken of the conditions under which they may reasonably be expected to perform these functions.

South Africa has adopted USA FAR Airworthiness design standards, which does not fully comply with ICAO standards.

9 Annex 9- Facilitation

CHAPTER 2

Paragraph 2.4

Contracting States shall not prevent an aircraft from calling at any international airport for public health reasons unless such action is taken in accordance with the International Health Regulations (2005) of the World Health Organization (WHO).

Partially Implemented - South Africa applies the World Health Regulations although not yet incorporated in Domestic Law.

Paragraph 2.43

Contracting States that require aircraft operators to apply for prior authorization shall: a) establish procedures whereby such application will be dealt with promptly; b) make such permission effective for a specific length of time or number of flights wherever possible; and

c) impose no fees, dues or charges for the issue of such permission.

More Exacting - There is prescribed application fee for commercial operations

CHAPTER 3

Paragraph 3.5

Contracting States shall ensure that no documents other than those provided for in this chapter shall be required by visitors for the entry into and departure from their territories.

AMDT 4/23



More Exacting - South Africa requires a traveler who is a minor to produce a document showing the details of parents as well as a consent form from any of the parents not accompanying the minor.

CHAPTER 4

Paragraph 4.22

Contracting States that require documents for export clearance shall normally limit their requirement to a simplified export declaration.

Less Protective - Provision is made for simplified clearance in section 39D of the Customs and Excise Act, No.91 of 1964; however this provision is not yet effective

CHAPTER 8

Paragraph 8.47

Contracting States shall establish legislation, regulations and/or policies in support of assistance to aircraft accident victims and their families.

Less Protective - No Provision in place, under development

CHAPTER 9

Paragraph 9.1

Contracting States requiring the exchange of Advance Passenger Information (API)/ interactive API (iAPI) and/or Passenger Name Record (PNR) data from aircraft operators shall create a Passenger Data Single Window facility for each data category, or both data categories combined, that allows parties involved to lodge standardized information with a common data transmission entry point to fulfil all related passenger and crew data requirements for that jurisdiction.

Less Protective – No mechanism implemented yet

CHAPTER 10

Paragraph 10.1

In cases where proof of vaccination or prophylaxis is required by national authorities under the International Health Regulations (2005), Contracting States shall accept the International Certificate of Vaccination or Prophylaxis prescribed by the World Health Organization (WHO) in the International Health Regulations (2005).



GEN 1.7-22 15 OCT 23

Partially Implemented - South Africa fully implements the International Health Regulations although not yet incorporated in domestic law.

10 Annex 10- Aeronautical Telecommunications

Volume 1 - 3.1.3.9.3

South Africa uses a 2 letter International Morse Code and places the letter "I" as the third letter of the identification signal of ILS installation at various aerodromes.

Less Protective – Regulation amendment expected November 2023 which will result in a Different Means of Compliance filed.

11 Annex 11- Air Traffic Services

Chapter 2 Paragraph 2.11.3.3

An upper limit of a control area shall be established when either: a) air traffic control service will not be provided above such upper limit; or b) the control area is situated below an upper control area, in which case the upper limit shall coincide with the lower limit of the upper control area.

When established, such upper limit shall coincide with a VFR cruising level of the tables in Appendix 3 to Annex 2.

Done in practice but not included in regulations.

Chapter 3 paragraph 3.3.5.2

Where RCP/RSP specifications are applied, programmes shall be instituted for monitoring the performance of the infrastructure and the participating aircraft against the appropriate RCP and/or RSP specifications, to ensure that operations in the applicable airspace continue to meet safety objectives. The scope of monitoring programmes shall be adequate to evaluate communication and/or surveillance performance, as applicable.

Not implemented

Regional Supplementary Procedures - Doc 7030 PART 2 - COMMUNICATIONS

Paragraph 2.1 Under selected TMA's in RSA (Special Rules Areas), the frequency 123.450 MHz is not applied. Paragraph reference: 3.1 PART 1 - RULES OF THE AIR, ATS

AMDT 4/23



AND SAR Aircraft on VFR flights, and aircraft on IFR flights outside controlled airspace, are not required to maintain a watch on a radio station furnishing communications for the unit providing FIS in the FIR and are not required to file with that station information as to their position.

12 Annex 12- Search and Rescue

NIL

13 Annex 13- Aircraft Accident and Incident Investigation NIL

14 Annex 14- Aerodromes

Volume 1

Chapter 1

Reference: Definition Arresting system. A system designed to decelerate an aeroplane overrunning the runway.

Mitigation: The State does not utilise arresting system. The State is implementing RESA requirements in the regulations.

Chapter 5

Paragraph 5.2.4.2

Recommendation. — A threshold marking should be provided at the threshold of a paved non-instrument runway where the code number is 3 or 4 and the runway is intended for use by other than international commercial air transport.

Mitigation: The State has adopted the standard to provide threshold marking on all paved runways of all codes.

Paragraph 5.2.4.3

A threshold marking should be provided, so far as practicable, at the thresholds of an unpaved runway. Note: The Aerodrome Design Manual (Doc 9157), Part 4, shows a form of marking which has been found satisfactory for the marking of downward slopes immediately before the threshold.

Mitigation: The State has adopted the standard on the use of edge markers to depict the start and end of unpaved runway.

GEN 1.7-24 15 OCT 23 AIP South Africa

Paragraph 5.2.6.5

On a non-precision approach runway where the code number is 2, an additional pair of touchdown zone marking stripes should be provided 150 m beyond the beginning of the aiming point marking.

Mitigation: The State does not have International Airports with Code 2 runways.

15 Annex 15- Aeronautical Information Services

NIL

- 16 Annex 16- Environmental Protection NIL
- 17 Annex 17- Security

N/A

18 Annex 18- The Safe Transport of Dangerous Goods by Air NIL

19 Annex 19- Safety Management

Chapter 3

Paragraph reference 3.4.2.

South Africa's State Safety Programme has not established the acceptable level of safety performance to be achieved.

Chapter 5

Paragraph reference: 5.3.5

Promotion of a positive safety culture has not yet formally started.

20 ICAO DOC 8168 - Aircraft Operations

Volume I- Flight Procedures

Part I Section 4 Chapter 2

Paragraph Reference: 2.3

AMDT 4/23



2.3 MINIMUM SECTOR ALTITUDES (MSA)/TERMINAL ARRIVAL ALTITUDES (TAA)

Minimum sector altitudes are established for each aerodrome and provide at least 1500ft (450m) obstacle clearance within 46km (25NM) of the radio navigation aid associated with the approach procedure for that aerodrome.

RNAV based Minimum sector altitudes or Terminal arrival altitudes are established for each aerodrome and provide at least 1000 ft (300m) obstacle clearance within 46km (25 NM) of the significant point, the aerodrome reference point (ARP) or the heliport reference point (HRP) associated with the approach procedure for that aerodrome.

Volume II - Construction of visual and instrument flight procedures

Part I Section 4 Chapter 8

Paragraph Reference: 8.1.1

8.1.1 Minimum sector altitudes shall be established for each aerodrome where instrument approach procedures have been established. Each minimum sector altitude shall be calculated by:

a) taking the highest elevation in the sector concerned;

b) adding a clearance of at least:

i) 1500 ft (450m) for a Minimum sector altitude based on a radio navigation aid, or ii) 1000 ft (300m) for a Minimum sector altitude based on a significant point, the aerodrome reference point (ARP) or the heliport reference point (HRP) (commonly referred to as an "RNAV MSA").

c) rounding the resulting value up to the next higher 100-ft increment, as appropriate.

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GEN 2 TABLES AND CODES

GEN 2.1 MEASURING SYSTEM, AIRCRAFT MARKINGS, HOLIDAYS

1 Units of measurement

The units of measurement used in connection with all aspects of civil aviation air and ground operations in the Republic of South Africa are in accordance with the Civil Aviation Regulations, 2011, Part 1, sub-part 2 Units of measurement.

ampere (A) is the constant electric current which, if maintained in two straight parallel conductors of infinite length, of negligible circular cross-section, and placed 1 metre apart in vacuum, would produce between these conductors a force equal to 2 x newton per metre of length;

becquerel (Bq) is the activity of a radionuclide having one spontaneous nuclear transition per second;

candela (cd) is the luminous intensity, in the perpendicular direction, of a surface of 1/600 000 square metre of black body at the temperature of freezing platinum under a pressure of 101 325 newtons per square metre;

celsius temperature (t^oc) is equal to the difference t^oc =T - To between two thermodynamic temperatures T and To where To equals 273.15 kelvin;

coulomb (C) is the quantity of electricity transported in 1 second by a current of 1 ampere;

degree celsius (°C) is the special name for the unit kelvin for use in stating values of Celsius temperature;

farad (F) is the capacitance of a capacitor between the plates of which there appears a difference of potential of 1 volt when it is charged by a quantity of electricity equal to 1 coulomb;

foot (ft) is the length equal to 0.3048 metres exactly;

gray (Gy) is the energy imparted by ionising radiation to a mass of matter corresponding to 1 Joule per kilogram;

henry (H) is the Inductance of a closed circuit in which an electromotive force of 1 volt is produced when the electric current in the circuit varies uniformly at a rate of 1 ampere per second;



hertz (Hz) is the frequency of a periodic phenomenon of which the period is 1 second;

joule (J) is the work done when the point of application of a force of 1 newton is displaced a distance of 1 metre in the direction of the force;

kelvin (K) is the unit of thermodynamic temperature which is the fraction 1/273.16 of the thermodynamic temperature of the triple point of water;

kilogram (kg) is the unit of mass equal to the mass of the international prototype of the kilogram;

knot (kt) is the speed equal to 1 nautical mile per hour;

litre (L) is a unit of volume restricted to the measurement of liquids and gases which is equal to 1 cubic decimeter;

lumen (Im) is the luminous flux emitted in a solid angle of 1 steradian by a point source having a uniform intensity of 1 candela;

lux (lx) is the illuminance produced by a luminous flux of 1 lumen uniformly distributed over a surface of 1 square metre;

metre (m) is the distance travelled by light in a vacuum during 1/299792458 of a second;

mole (mol) is the amount of substance of a system which contains as many elementary entitles as there are atoms in 0.012 kilogram of carbon-12;

Note.-When the mole is used, the elementary entities must be specified and may be atoms, molecules, ions, electrons, other particles or specified groups of such particles.

nautical mile (NM) is the length equal to 1 852 metres exactly;

newton (N) is the force which when applied to a body having a mass of 1 kilogram gives it an acceleration of 1 metre per second squared;

ohm (Ω) is the electric resistance between two points of a conductor when a constant difference of potential of 1 volt, applied between these two points, produces In this conductor a current of 1 ampere, this conductor not being the source of any electromotive force;

AMDT 2/16



pascal (Pa) is the pressure or stress of 1 newton per square metre;

radian (rad) is the plane angle between two radii of a circle which cut off on the circumference an arc equal In length to the radius;

second (s) is the duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium-133 atom;

siemens (S) is the electric conductance of a conductor in which a current of 1 ampere is produced by an electric potential difference of 1 volt;

sievert (Sv) is the unit of radiation dose equivalent corresponding to 1 joule per kilogram;

steradian (sr) is the solid angle which, having its vertex in the centre of a sphere, cuts off an area of the surface of the sphere equal to that of a square with sides of length equal to the radius of the sphere;

tesla (T) is the magnetic flux density given by a magnetic flux of 1 weber per square metre;

tonne (t) is the mass equal to 1 000 kilograms;

volt (V) is the unit of electric potential difference and electromotive force which is the difference of electric potential between two points of a conductor carrying a constant current of 1 ampere, when the power dissipated between these points is equal to 1 watt;

watt (W) is the power which gives rise to the production of energy at the rate of 1 Joule per second; and

weber (Wb) the magnetic flux which, linking a circuit of one turn produces in it an electromotive force of 1 volt as it is reduced to zero at a uniform rate in 1 second.

2 Temporal reference system

Universal Coordinated Time (UTC) is used by air navigation services and in documents published by the aeronautical information service. Reporting of time is expressed to the nearest minute, e.g. 12: 40: 35 is reported as 1241. Local time is UTC + 2 Hours.

The Gregorian calendar shall be used as the temporal reference system for air navigation.



3 Geodetic reference datum

3.1 Name/designation of datum.

The geographical coordinates indicating Latitude and Longitude are expressed in terms of the World Geodetic System of 1984 (WGS-84) geodetic reference datum.

3.2 Area of application.

The area of application for the published geographical coordinates coincides with the area of responsibility of the Aeronautical Information Service, i.e. the entire territory of the RSA as well as the airspace over the high seas encompassed by the Johannesburg Oceanic FIR in accordance with the regional air navigation agreement.

3.3 Use of an asterisk to identify published geographical coordinates.

The application of WGS-84 will be achieved either by surveyor mathematical conversion of coordinates. Where the information has been transformed mathematically into

WGS-84 coordinates or where the accuracy of original field work does not meet the ICAO Standards and Recommended Practices they are published accompanied by an asterix (*) indicating that the information is of low integrity.

3.4 In addition to elevation referenced to the MSL (geoid), for the specific surveyed ground positions, geoid undulation (referenced to the WGS-84 ellipsoid) for those positions specified in ICAO Doc 10066 Appendix 2 shall also be published.

4 Aircraft nationality and registration marks

The nationality marks for aircraft registered in the Republic of South Africa are the letters ZS, ZT and ZU. The nationality marks are followed by a hyphen and a registration mark consisting of 3 letters, e.g. ZS-ABC, ZT-ABC, ZU-ABC.

Date	Day	Name
01 January	Wednesday	New Year's Day
21 March	Friday	Human Rights Day
18 April	Friday	Good Friday
21 April	Monday	Family Day
27 April	Sunday	Freedom Day
28 April	Monday	Public Holiday
01 May	Thursday	Workers Day
16 June	Monday	Youth Day
09 August	Saturday	National Women's Day
24 September	Wednesday	Heritage Day
16 December	Tuesday	Day of Reconciliation
25 December	Thursday	Christmas Day
26 December	Friday	Day of Goodwill

5 Public holidays for the year 2025.



GEN 2.2-1 15 JAN 20

GEN 2.2 Abbreviations used in AIS publications

ICAO abbrev	viations shall be used in the		
aeronautical information services whenever they are appropriate and their use will facilitate distribution of aeronautical data and		AC	Altocumulus
		ACARS†	(to be pronounced "AY-CARS") Aircraft communication
aeronauticar	intornation.	ACAS†	Airborne collision avoidance
~	Differences from ICAO Abbreviations (Doc 8400)	ACC‡	Area control centre <i>or</i> area
Ť	When radiotelephony is used, the abbreviations and terms are	ACCID	Notification of an aircraft accident
+	transmitted as spoken words.	ACFT	Aircraft
÷	when radiotelephony is used, the abbreviations and terms are	ACK	Acknowledge
	transmitted using the individual	ACL	Altimeter check location
-1-	letters in non-phonetic form.	ACN	Aircraft classification number
*	Signal is also available for use in communicating with stations of the maritime mobile service.	ACP	Acceptance (message type designator)
#	Signal for use in the teletypewriter service only.	ACPT	Accept or accepted
11		ACSA~	Airports Company South Africa
Α		ACT	Active or activated or activity
A~	Abbreviated VASI	AD	Aerodrome
А	Amber	ADA	Advisory area
AAA	(or AAB, AACetc in sequence) Amended meteorological message (message type designator)	ADC	Aerodrome chart
		ADDN	Addition or additional
		ADF‡	Automatic direction-finding equipment
A/A	Air-to-air	ADIZ†	(to be pronounced "AY-DIZ") Air
AAD	Assigned altitude deviation	'	defence identification zone
AAIM	Aircraft autonomous integrity monitoring	ADJ	Adjacent
AAL	Above aerodrome level	ADO	Aerodrome office (specify service)
AAR	Air to air refuelling	ADR	Advisory route
ABI	Advanced boundary information	ADS*	The address (when this abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation e q
ABM	Abeam	120	
ABN	Aerodrome beacon		
ABT	About		IMI ADS (to be used in AFS as a
ABV	Above		procedure signal)

Civil Aviation Authority

AMDT 1/20



15 JAN 20			AIP South Africa
ADS-B‡	Automatic dependent	AIS	Aeronautical information services
ADS-C ⁺ Automatic dependent		ALA	Alighting area
AD0-0+	surveillance - contract	ALERFA†	Alert phase
ADSU	Automatic dependent surveillance unit	ALR	Alerting (message type designator)
ADVS	Advisory service	ALRS	Alerting service
ADZ	Advise	ALS	Approach lighting system
AES	Aircraft earth station	ALSF-1~	Approach light systems with sequenced flashing lights in CAT
AFIL	Flight plan filed in the air		1 Configuration.
AFIS	Aerodrome flight information service	ALSF-2~	Approach light system with red barrettes and sequenced flashing lights.
AFM	Yes or affirm or affirmative or that is correct	ALT	Altitude
AFS	Aeronautical fixed service	ALTN	Alternate or alternating (light
AFT	After(time or place)		alternates in colour)
AFTN‡	AFTN [‡] Aeronautical fixed telecommuni-	ALIN Am~	Alternate (aerodrome)
A/G	Air-to-ground	AMA	Area minimum altitude
AGA	Aerodrome, air routes and ground aids	AMATIS~	AMHS Agent Terminal Interface System
AGL	Above ground level	AMD	Amend or amended (used to indicate amended meteorological message: message type
AGN	Again		
AIC	Aeronautical information circular		designator)
AIDC	Air traffic services interfacility	AMDT	Amendment (AIP Amendment)
AIM	Aeronautical information	AMHS~	Aeronautical Message Handling System
	management	AMS	Aeronautical mobile service
AIP	Aeronautical Information publication	AMSL	Above mean sea level
AIP SUP	AIP supplement	AMSS	Aerodrome mobile satellite service
AIRAC	Aeronautical information regulation and control	ANAIS~	Aeronautical Automated
AIREP†	Air-report	ANC	Aeronautical chart - 1:500 000
AIRMET [†] Information concerning en-route weather phenomena which may affect the safety of low level aircraft operations	Information concerning en-route		(followed by name/title)
	ANCS	Aeronautical navigation chart - small scale (followed by name/ title and scale)	

GEN 2.2-2


GEN 2.2-3 15 JAN 20

ANS	Answer	ASDA	Accelerate-stop distance
AOC	Aerodrome obstacle chart (followed by type and name/title)	ASE	Altimetry system error
AO	Aircraft operator	ASHTAM	Special series of NOTAM
AP	Airport		notifying, by means of a specific
APAPI†	(to be pronounced "AY-PAPI") Abbreviated precision approach path indicator		volcano, a volcanic eruption and/ or volcanic ash cloud that is of significance to aircraft operations
APCH	Approach	ASPH	Asphalt
APDC	Aircraft parking/docking chart (followed by name/title)	AT	At (followed by time at which weather change is forecast to
APN	Apron		occur)
APP	Approach control office or	ATA‡	Actual time of arrival
	approach control <i>or</i> approach	ATC‡	Air traffic control (in general)
ΔPR	April	ATCSMAC	Air traffic control surveillance
		•	by name/title).
APSC	After passing	ATD‡	Actual time of departure
		ATFM	Air traffic flow management
APV	Approach procedure with vertical auidance	ATIS†	Automatic terminal Information service
ARC	Area chart	ATM	Air traffic management
ARNG	Arrange	ATN	Aeronautical telecommunication network
ARO	Air traffic services reporting office	ATP	At (time or place)
ARP	Aerodrome reference point	ATS	Air traffic services
ARP	Air-report (message type designator)	ATSU~	Air Traffic Service Unit
ARQ	Automatic error correction	ATTN	Attention
ARR	Arrival (message type designator)	AT-VASIS†	(to be pronounced "AY-TEE-
ARR	Arrive or arrival		approach slope indicator system
ARS	Special air-report (message type designator)	ATZ	Aerodrome traffic zone
ARST	Arresting (specify (part of) aircraft	AUG	August
	arresting equipment)	AUTH	Authorized or authorization
AS	Altostratus	AUTO	Automatic
ASAP	As soon as possible	AUW	All up weight
ASC	Ascent to or ascending to	AUX	Auxiliary



GEN 2.2-4 15 JAN 20			AIP South Africa
			-
AVBL	Available or availability	BS	Commercial broadcasting station
AVG	Average	BTL	Between layers
AVGAS†	Aviation gasoline	BTN	Between
AWOS	Automated Weather Observing System	BUFR	Binary universal form for the representation of meteorological
AWTA	Advise at what time able	•	data
AWY	Airway	C	
AZM	Azimuth	C	Centre (preceded by runway designation number to identify a
В			parallel runway)
(B)~	Bi-directional	С	Degrees Celsius (Centigrade)
B~	Bar	CA	Course to an altitude
В	Blue	CAA	Civil Aviation Authority or Civil
BA	Braking action		Aviation Administration
BARO- VNAV†	(to be pronounced "BAA-RO - VEE-NAV") Barometric vertical navigation	CALVERT~	Configuration and -2 indicating Cat 2 configuration. Barrettes inner 1000 ft (305 m).
BASE†	Cloud base	CAMU~	Central Airspace Management Unit
BCFG	Fog patches	CAT	Category
BCN	Beacon (Aeronautical ground light)	CAT	Clear air turbulence
BCST	Broadcast	CAVOK†	(to be pronounced "KAV-OH-
BDRY	Boundary		weather better than prescribed
BECMG	Becoming		values or conditions
BFR	Before	CB~	Automatic dependent
BKN	Broken		ads-b
BL	Blowing (followed by DU-dust, SA=sand or SN=snow)	CB‡	(to be pronounced "CEE BEE") Cumulonimbus
BLDG	Building	CBP~	Cloud Break Procedure
BLO	Below clouds	CC~	Automatic dependent
BLW	Below		surveillance - contract (details)
BOMB	Bombing	<u> </u>	Cirrocumulus
BR	Mist	CCA	(or CCR_CCC_ ato in sociuonea)
BRF	Short (used to indicate the type of approach desired, or required)	CCA	Corrected meteorological message (message type
BRG	Bearing	000	aesignator)
BRKG	Braking		Commuous climb operations



GEN 2.2-5 15 JAN 23

CCT~	Circuit	CL4B~	Centreline with 4 bars (single row
CD	Candela		not coded) Prefixed by "B" indicates bar centreline.
CD~	Coded	CLA	Clear type of ice formation
CD~	Controller-pilot data link communications (details) cpdlc	CLBR	Calibration
CD5B~	Coded approach light system with 5 bars suffix -1 for CAT ILS 1.	CLCD~	Coded centreline. White, alternative white and red, red.
CDN	Co-ordination (message type	CLD	Cloud
	designator)	CLD~	Configuration deviation list
CDO	Continuous descent operations	CLG	Calling
CDR	Conditional route	CLIMB-	Climb-out area
CF	Change frequency to	OUT	
CF	Course to a fix	CLR	Clear(s) or cleared to or clearance
CFM*	Confirm or I confirm (to be used in AFS as a procedure signal)	CLRD	Runway (s) cleared <i>(used in METAR/SPECI)</i>
CGL	Circling guidance light(s)	CLSD	Close or closed or closing
СН	Channel	СМ	Centimeter
CH#	This is a channel-continuity-	СМВ	Climb to or climbing to
	comparison of your record of channel-sequence numbers of	CMPL	Completion <i>or</i> completed <i>or</i> complete
	messages received on the	CNL	Cancel or cancelled
	procedure signal)	CNL	Flight plan cancellation (message type designator)
СНЕМ	Chemical	CNS	Communication, navigation and
CHF~	Aerodrome Authority	••••	surveillance
CHG	Modification (message type designator)	COM	Communications
CI	Cirrus	CONC	Concrete
CIDIN†	Common ICAO data interchange	COND	Condition
-	network	CONS	Continuous
CIV	Civil	CONST	Construction or constructed
СК	Check	CONT	Continue(s) or continued
CL	Centre Line	COOR	Co-ordinate or coordination
CL30M~	Centreline. The figures indicate	COORD	Coordinates
	the spacing between lights when known.	COP	Change over point



GEN 2.2-6 15 IAN 23			AIP South Africa
COR	Correct or correction or corrected (used to indicate corrected meteorological message;	D-ATIS†	(to be pronounced "DEE-ATIS") Data link automatic terminal information service
	message type designator)	DA/H~	Decision altitude/height
COT	At the coast	DAME~	Designated aviation medical
COV	Cover or covered or covering		examiner
CPDLC‡	Controller-pilot data link	DCD	Double channel duplex
		DCKG	Docking
GFL	designator)	DCP	Datum crossing point
CRC	Cyclic redundancy check	DCPC	Direct controller-pilot communications
CRM	Collision risk mode!	DCS	Double channel simplex
CRP CRZ	Compulsory reporting point Cruise	DCT	Direct (in relation to flight plan clearances and type of approach)
CS	Call Sign	DE*	From (used to precede the call
CS	Cirrostratus		sign of the calling station) (to be
СТА	Control area		signal)
CTAM	Climb to and maintain	DEC	December
CTC	Contact	DEC~	From (used to precede the call
CTL	Control		sign of the calling station) (to be used in AES as a procedure
CTN	Caution		signal)
CTR	Control zone	DEG	Degrees
CU	Cumulus	DEP	Depart or departure
CUF	Cumuliform	DEP	Departure (message type
CUST	Customs		designator)
CVR	Cockpit voice recorder	DEPO	Deposition
CW	Continuous wave	DER	Departure end of the runway
CWY	Clearway	DES	Descend to or descending to
D		DEST	Destination
D~	DME Distance	DETRESFA †	Distress phase
D	Downward (tendency In RVR during previous 10 minutes)	DEV	Deviation or deviating
D	Danger area (followed by	DF	Direction finding
	Identification) (see FAD)~	DFDR	Digital flight data recorder
DA	Decision attitude	DFTI	Distances from touchdown indicator



GEN 2.2-7 15 JAN 25

DH	Decision height	DVOR	Doppler VOR
DIA~	Diameter	DW	Dual wheels
DIF	Diffuse	DZ	Drizzle
DIST	Distance	Е	
DIV	Divert or diverting	E	East or eastern longitude
DLA	Delay or delayed	EAT	Expected approach time
DLA	Delay (message type designator)	EB	Eastbound
DLIC	Data link initiation capability	EDA	Elevation differential area
DLY	Daily	EDTO	Extended diversion time
DME‡	Distance measuring equipment		operations
DNG	Danger or dangerous	EEE#	Error (to be used in AFS as a procedure signal)
DOF	Date of flight	EET	Estimated elapsed time
DOD~	Department of Defence	EFC	Expect further clearance
DOM	Domestic	EFIS†	(to be pronounced "FF-FIS")
DOT~	Department of Transport		Electronic flight instrument
DP	Dew point temperature		system
DPT	Depth	eFPL	Filed flight plan exchanged via flight and flow - information for a
DR	Dead reckoning		collaborative environment
DR	Low drifting (followed by	I	(FF-ICE) services
550	DU=dust, SA-sand or SN=snow)	EGNOSŤ	(to be pronounced "EGG-NOS") European geostationary overlay
DRG	During		service
DS	Duststorm	EHF	Extremely high frequency [30000
DSB	Double sideband		to 300000 MHz]
DIAM	Descend to and maintain	EL/REIL~	Runway end lights/Runway end identifier lights
DIG	Date-time group	FI BA†	Emergency location beacon -
DIHR	Displaced runway threshold		aircraft
	Deteriorate or deteriorating	ELEV	Elevation
DIW	Dual tandem wheels	ELR	Extra long range
DU	Dust	ELT	Emergency locator transmitter
DUC	Dense upper cloud	EM	Emission
DUPE#	This is a duplicate message (to be used in AFS as a procedure signal)	EMBD	Embedded in a layer (to Indicate cumulonimbus embedded in layers of other clouds)
DUR	Duration	EMERG	Emergency
D-VOLMET	Data link VOLMET		Emergency



15 JAN 25 FA Course from a fix to an altitude END Stop-end (related to RVR) FAC Facilities ENE East-north-east FAD~ Danger Area (South Africa) ENG Engine FAF Final approach fix ENR En route Facilitation of international air ENRC... Enroute chart (followed by name/ FAL title) transport EOBT Estimated off-block time FAP Final approach point EQN Equatorial latitudes northern FAP~ Prohibited area (South Africa) hemisphere FAR~ Restricted area (South Africa) EQPT Equipment FAS Final approach segment EQS Equatorial latitudes southern FATO Final approach and take-off area hemisphere FAX Facsimile transmission EROPS~ Extended range operations FBL Light (used to indicate the ESE East-south-east Intensity of weather phenomena, Estimate or estimated or EST Interference or static reports, e.g. estimation (message type FBL RA = light rain) designator) FC Funnel cloud (tornado or water Estimated time of arrival or ETA*‡ spout) estimating arrival FCST Forecast Estimated time of departure or ETD‡ FCT Friction coefficient estimating departure FDPS Flight data processing system ETO Estimated time over significant FEB February point FEW ETOPS~ Few Extended range operations with twin-engine aircraft FG Fog EUR European regional OPMET data FIC Fight Information centre RODEX exchange FIR‡ Flight Information region ΕV Every FIS Flight Information service EVS Enhanced vision system FISA Automated flight information EXC Except service Exercises or exercising or to EXER FL Flight level exercise FLD Field EXP Expert or expected or expecting FLG Flashing EXTD Extend or extending or Extended FLO~ Floodlights F FLR Flares F Fixed FLT Flight

FLTCK

Flight check

AMDT 1/25

Sequenced flashing lights

F~

GEN 2.2-8



FLUC	Fluctuating or fluctuation or	FTE	Flight technical error
	fluctuated	FTP	Fictitious threshold point
FLW	Follow(s) or following	FTT	Flight technical tolerance
FLY	Fly <i>or</i> flying	FU	Smoke
FM	Course from a fix to manual termination (used in pavidation	FZ	Freezing
	database coding)	FZDZ	Freezing drizzle
FM	From	FZFG	Freezing fog
FM	From (followed by time weather change is forecast to begin)	FZRA G	Freezing rain
FMC	Flight management computer	G	Green
FMS‡	Flight management system	G	Variations from the mean wind
FMU	Flow management unit	0	speed (gusts) (followed by figures
FNA	Final approach		in METAR/SPECI and TAF)
FPAP	Flight path alignment point	GA	Go ahead, resume sending (to be
FPL	Filed flight plan exchanged via aeronautical fixed service (AFS)	C A	signal)
FPM	Feet per minute	GA	
FPR	Flight plan route	G/A	Ground-to-air
FPI I~	Filed flight plan (message type	G/A/G	Ground-to-air and air-to-ground
110-	designator)	GAGAN†	GPS and geostationary earth orbit augmented navigation
FR	Fuel remaining	GAIN	Airspeed or headwind gain
FREQ	Frequency	GAMET	Area forecast for low-level flights
FRI	Friday	GARP	GBAS azimuth reference point
FRNG	Firing	GBAS†	(to be pronounced "GEE-BAS")
FRONT†	Front (relating to weather)		Ground-based augmentation
FROST†	Frost (used In aerodrome warnings)	GCA‡	Ground controlled approach
FRQ	Frequent		approach
FS~	French standard (Angle of approach)	GEN	General
FSL	Full stop landing	GEO	Geographic <i>or</i> true
FSS	Flight service station	GES	Ground earth station
FST	First	GLD	Glider
FT	Feet (dimensional unit)	GLONASS †	(to be pronounced "GLO-NAS") Global orbiting navigation satellite
FTA~	Flight training area	I	system



GLS‡ Continuous day and night service **GBAS** landing system H24 GMC... Ground movement chart HA Holding/racetrack to an altitude (followed by name /title) HAPI Helicopter approach path GND Ground indicator GNDCK Ground check HBN Hazard beacon GNSS‡ Global navigation satellite system HDF High frequency direction-finding station GOV Government HDG Heading GP Glide path HEL Helicopter GPA Global path angle HF‡ High frequency [3 000 to 30 000 GPIP Glide path intercept point kHz] GPS‡ Global positioning system ΗF Holding/racetrack to a fix GPU Ground power unit HGT Height or height above GPWS[‡] Ground proximity warning system HJ Sunrise to sunset GR~ Earth (runway) HLDG Holdina GR Hail HLS Helicopter landing site (to be pronounced "GRASS") GRAS† ΗМ Holding/racetrack to a manual Ground-based regional termination augmentation system ΗN Sunset to sunrise GRASS Grass landing area HNH High latitudes northern GRAV~ Gravel (Runway) hemisphere GRIB Processed meteorological data in Service available to meet HO the form of grid point values operational requirements expressed in binary form (meteorological code) HOD~ Hours of duty GRVL Gravel HOL Holiday GS~ Grass (Runway) HOSP Hospital aircraft GS Ground speed HPA Hectopascal Small hail and/or snow pellets GS HLP Heliport GUND Geoid undulation HR Hours g/m³~ Grams per cubic meter HS Service available during hours of scheduled operations н HSH High latitudes southern H~ High intensity hemisphere High pressure area or the centre н HST~ High speed turn-off lights of high pressure HUD Head-up display Н... Significant wave height (followed

HUM

by figures in METAR/SPECI)

GEN 2.2-10 15 JAN 25

Humanitarian



GEN 2.2-11 15 JAN 25

HURCN	Hurricane	IM	Inner marker
HVDF	High and very high frequency direction finding stations (at the	IMC‡	Instrument meteorological conditions
	same location)	IMG	Immigration
HVY HVY	Heavy Heavy (used to indicate the intensity of weather phenomena,	IMI*	Interrogation sign (question mark) (to be used in AFS as a procedure signal)
	e.g. HVY RA = heavy rain)	IMPR	Improve or improving
HX	No specific working hours	IMT	Immediate or immediately
HYR	Higher	INA	Initial approach
HZ	Haze	INBD	Inbound
HZ	Hertz (cycle per second)	INC	In cloud
		INCORP	Incorporated
I		INCERFA†	Uncertainty phase
IAC	Instrument approach chart (followed by name/title)	INFO†	Information
IAF	Initial approach fix	INOP	Inoperative
IAL~	Instrument approach and landing chart	INP	If not possible
		INPR	In progress
IALS~	Intermediate approach lighting	INS	Inertial navigation system
	system	INSTL	Install or installed or installation
IAO	In and out of clouds	INSTR	Instrument
IAP	instrument approach procedure	INT	Intersection
IAR	Intersection of air routes	INTL	International
IAS	Indicated air speed	INTRG	Interrogator
IBN	Identification beacon	INTRP	Interrupt or interruption or
ICAO	International Civil Aviation		Interrupted
ICE		INTSF	Intensify or intensifying
	Identifier or Identify	INTST	Intensity
		IR	Ice on runway
	Intermediate approach fix	IRS	Inertial reference system
IEE	Identification friend/foe	ISA	International standard
IFR†	Instrument flight rules	ISB	Independent sideband
ις Δ	International general aviation	ISOI	Isolated
11.51	Instrument landing system		lociatou
·	meaning system	-	



GEN 2.2-12			AIP South Africa
15 JAN 25			AIF South Airca
JAN	January	LDG	Landing
JTST	Jet stream	LDI	Landing direction Indicator
JUL	July	LDIN~	Sequenced flashing lead in lights
		LEN	Length
JUN	June	LF	Low frequency [30 to 300 kHz]
к		LGT	Light or lighting
KG	Kilograms	LGTD	Lighted
KHZ	Kilohertz	LIH	Light intensity high
KIAS	Knots indicated airspeed	LIL	Light Intensity low
KM	Kilometres	LIM	Light intensity medium
KMH	Kilometres per hour	LINE	Line (used in SIGMET)
KPA	Kilopascal	LM	Locator middle
KT	Knots	LMT	Local mean time
KW	Kilowatts	LNAV†	(to be pronounced "EL-NAV")
kg/cm2~	Kilograms per square centimetre	ING	long (used to indicate the type of
L		LING	approach desired or required)
L	Left (preceded by runway designation number to identify a	LO	Locator, outer
	parallel runway)	LOC	Localizer
L	Locator (see LM, LO)	LONG	Longitude
L	Low intensity	LORAN†	LORAN (long range air navigation
L	Low pressure area or the centre		system)
	of low pressure	LOSS	Airspeed or headwind loss
L		LPV	Localizer performance with vertical quidance
LAM	Logical acknowledgement (message type designator)	IR	The last message received by me
LAN	Inland	LIX	was (to be used in AFS as a
LASS~	Lowveld Military Airspace Sector		
LAT	Latitude		The last message sent by me
LB~	3 Bar VASI (Long bodied)	LJ	was or Last message was (to
LCA	Local or locally or location or located		be used in AFS as a procedure signal)
LCN~	Load classification number	LTA	Lower control area
LDA	Landing distance available	LTD	Limited
LDAH	Landing distance available, helicopter	LTP	Landing threshold point



LV	Light and variable (relating to	MDA	Minimum descent altitude
	wind)	MDA/H~	Minimum descent altitude/height
LVE	Leave or leaving	MDF	Medium frequency direction-
LVL	Level		finding station
LVP	Low visibility procedures	MDH	Minimum descent height
LYR	Layer <i>or</i> layered	MEA	Minimum en-route altitude
м		MEDEVAC	Medical evacuation flight
M~	Medium intensity	MEHT	Minimum eye height over
M	Metres (preceded by figures)		slope indicator system)
M	Mach number <i>(followed by figures)</i>	MEL~	Minimum equipment list
М	Minimum value of runway visual	MET†	Meteorological or meteorology
111	range (followed by figures In METAR/SPECI)	METAR†	Aerodrome routine meteorologi- cal report (<i>in meteorological</i> code)
MAA	Maximum authorized altitude	MFT	Local routine meteorological
MAG	Magnetic	REPORT	report (in abbreviated plain
MAHF	Missed approach holding fix		language)
MAINT	Maintenance	MF	Medium frequency [300 kHz to 3000 kHz]
MALS~	Medium intensity approach	МНА	Minimum holding altitude
	sequenced flashing lights (MALSF) or runway alignment indicator lights (MALSR).	MHDF	Medium and high frequency direction-finding stations (at the same location)
MAP	Aeronautical maps and charts	MHVDF	Medium, high and very high
MAPT	Missed approach point		frequency direction-finding station (at the same location)
MAR	At sea	MHZ	Megahertz
MAR	March	MID	Mid-point (related to RVR)
MATF	Missed approach turning fix	MIEG	Shallow for
MATZ	Military aerodrome traffic zone		Militan/
MAX	Maximum		Minutes
MAY	Мау		Minutes
MBST	Microburst	MIS	identification) (to be used in AFS
MCA	Minimum crossing altitude		as a procedure signal)
МСМ	Maximum certified mass	MKR	Marker radio beacon
MCTR	Military control zone	MLS‡	Microwave landing system
MCW	Modulated continuous wave	MM	Middle marker



GEN 2.2-14			
15 JAN 25			AIP South Africa
MNH	Middle latitudes northern hemisphere	MSR#	Message (transmission identification) has been misrouted
MNM	Minimum		(to be used in AFS as a procedure signal)
MNPS	Minimum navigation performance specifications	MSSR	Monopulse secondary surveillance radar
MNT	Monitor <i>or</i> monitoring <i>or</i> monitored	MT	Mountain
MNTN	Maintain	МТОМ	Maximum take-off mass
MOA	Military operating area	MTU	Metric units
MOC	Minimum obstacle clearance	MTW	Mountain waves
	(required)	MUNICIP~	Municipality, Town Council, etc.
MOCA	Minimum obstacle clearance altitude	MVDF	Medium and very high frequency direction-finding station (at the same location)
MOD	Moderate (used to indicate the intensity of weather phenomena	MWO	Meteorological watch office
	interference or static reports e.g, MODRA - moderate rain)	MX	Mixed type of ice formation (white and clear)
MON	Above-mountains	N	
MON	Monday	N	No distinct tendency (in RVR
MOPS†	Minimum operational		during previous 10 minutes)
	performance standards	Ν	North or northern latitude
MOV	Move or moving or movement	NA~	Not authorized
MPS	Meters per second	NADP	Noise abatement departure
MRA	Minimum reception altitude.	NAGO	procedure
MRG	Medium range	NASCT	National AIS system centre
MRP	ATS/MET reporting point	NAI	North Atlantic
MS	Minus	NAV	Navigation
MSA	Minimum sector altitude	NAVAID	Navigation aid
MSAS†	(to be pronounced "EM-SAS")	NB	North bound
	Multifunctional transport satellite (MTSAT) satellite-based	NBFR	Not before
	augmentation system	NC	No change
MSAW	Minimum safe altitude warning	NCD	No cloud detected (used in automated METAR/SPECI)
MSG	Message	NDB‡	Non-directional Radio Beacon
MSH	Middle latitudes southern hemisphere	•	
MSL	Mean sea level	NDV	No directional variations available (used in automated METAR/ SPECI)



NE	North-east	NSW	Nil significant weather
NEB	North-eastbound	NTL	National
NEG	No <i>or</i> negative <i>or</i> permission not	NTZİ	No transgression zone
	granted or that is not correct	NW	North-west
NGT	Night	NWB	North-westbound
NIL*†	None <i>or</i> I have nothing to send to you	NXT	Next
NM	Nautical miles	0	
NML	Normal	(0)~	Omni-directional
NN	No name, unnamed	0~	Oil
NNE	North north-east	OAC	Oceanic area control centre
NNW	North north-west	OAS	Obstacle assessment surface
NO	No (negative) (to be used in AFS	OBS	Observe <i>or</i> observed <i>or</i> observation
NOF	International NOTAM office	OBSC	Obscure <i>or</i> obscured <i>or</i> obscuring
NONSTD	Non-standard	OBST	Obstacle
NOSIG†	No significant change (used in trend-type landing forecasts)	OCA	Obstacle clearance altitude
NOTAM÷	A notice distributed by means of	OCA	Oceanic control area
	telecommunication containing	000	Occulting (light)
	information concerning the	OCH	Obstacle clearance height
	change in any aeronautical	OCNL	Occasional or occasionally
	facility, service, procedure or	OCS	Obstacle clearance surface
	which is essential to personnel	OCT	October
	concerned with flight operations	ODALS~	Omni-directional sequenced
NOTAMC	Cancelling NOTAM		flashing lead in lights.
NOTAMN	New NOTAM	OFZ	Obstacle free zone
NOTAMR	Replacing NOTAM	OGN	Originate (to be used in AFS as a
NOV	November		procedure signal)
NOZ‡	Normal operating zone	OHD	Overhead
NPA	Non precision approach	OIS	Obstacle identification surface
NR	Number	OK*	We agree <i>or</i> it is correct (to be used in AFS as a procedure
NRH	No reply heard		signal)
NS	Nimbostratus	OLDI†	On-line data Interchange
NSC	Nil significant cloud	ОМ	Out marker
NSE	Navigation system error		



GEN 2.2-16 15 JAN 25			AIP South Africa
OPA	Opaque, white type of ice formation	PBC	Performance-based communication
OPC	Control indicated is operational	PBE~	Portable breathing equipment
	control	PBN	Performance-based navigation
OPMET†	Operational meteorological	PBS	Performance-based surveillance
		PC~	Contingency procedures
	Operator or operate or operative	PCD	Proceed or proceeding
OFIC	or operating or operational	PCL	Pilot-controlled lighting
OPS†	Operations	PCN	Pavement classification number
O/R	On request	PCT	Per cent
ORD	Order	PDC‡	Pre-departure clearance
OSV	Ocean station vessel	PDG	Procedure design gradient
OTH~	Other	PER	Performance
OTP	On top	PERM	Permanent
OTS	Organized track system	PF~	Paraffin Flares
OUBD	Out-bound	PFP	Preliminary flight plan
OVC	Overcast	PIB	Pre-flight Information bulletin
Р		PJE	Parachute jumping exercise
P	Maximum value of wind speed or	PL	Ice pellets
	runway visual range (followed by	PLA	Practice low approach
Р	METAR/SPECI and TAF)	PLVL	Present level
P	identification)	PN	Prior notice required
P~	Precision approach path indicator	PNR	Point of no return
PA	Precision approach	PO	Dust devils/sand whirl (dust devil)
PALS	Precision approach lighting	POB	Persons on board
	system (specify category)	POSS	Possible
PANS	Procedures for air navigation	PPI	Plan position Indicator
	Services	PPR	Prior permission required
		PPSN	Present position
PAR ₄ PARL	Parallel	PRFG	Aerodrome partially covered by
PATC	Precision approach terrain chart (followed by name/title)	PRI	Primary
PAX	Passenger(s)	PRIV~	Aerodrome licensed in Private category
PB~	Private Bag	PRKG	Parking



GEN 2.2-17 15 JAN 25

PROB†	Probability	QNE~	Indicated height on landing, with
PROC	Procedure		hectopascals
PROP	Propeller	QNH‡	Altimeter sub-scale setting to
PROV	Provisional	·	obtain elevation when on the
PRP	Point-in-space reference, point	000	ground
PS	Plus	QSP	or I will relay to free of charge
PSG	Passing		(to be used in AFS as a Q code)
PSI~	Pounds per square inch	QTA	Shall I cancel telegram
PSN	Position		number? or Cancel telegram number (to be used in AFS as a Q
PSP	Pierced steel plank		code)
PSR‡	Primary surveillance radar	QTE	True bearing
PSYS	Pressure system(s)	QTF	Will you give me the position of
PTN	Procedure turn		my station according to the bearings taken by the D/F
PTS	Polar track structure		stations which you control? or
PUB~	Aerodrome licensed in the public category		The position of your station according to the bearings taken by the D/F stations that I control
PWR	Power		waslatitudelongitude (or other
Q			indication of position), classathours (to be used in
QDL~	Do you intend to ask me for a		radiotelegraphy as Q Code)
	ask you for a series of bearings	QUAD	Quadrant
	(to be used in radiotelephony as a Q code)	QUJ	Will you indicate the TRUE track to reach you? or The TRUE track
QDM‡	Magnetic heading (zero wind)		to reach me isdegrees at hours (to be used in radiotelepho-
QDR	Magnetic, bearing		ny as a Q code)
QFE‡	Atmospheric pressure at	R	
	aerodrome elevation (or at runwav threshold)	(R)~	VOR Radial
QFU	Magnetic orientation of runway	R	Right (preceded by runway designation number to identify a
QGE	What is my distance to your		parallel runway)
	station is (distance figures and	R	Rate of turn
	units) (to be used in radiotelepho-	R	Red
0.111	ny as a Q code)	R	Restricted area (followed by
IJН	a test sentence (to be used in AFS as a Q code)	R	Runway (followed by figures in METAR/SPECI)



GEN 2.2-18			
15 JAN 25			AIP South Africa
R*	Received (acknowledgement of	RDO	Radio
	receipt) (to be used in AFS as a procedure signal)	RE	Recent (used to qualify weather phenomena e.g. RERA - recent
R	Radial from VOR (followed by three figures)	DEC	rain)
R/T~	Radio Telephony	REC	
RA	Rain	REDL	Runway edge light(s)
RA	Resolution advisory	REF	Reference to or refer to
RAC	Rules of the air and air traffic services	REG REIL~	Registration Runway end lights/Runway end
RAFC~	Regional area forecast centre	RENI	Runway and light(s)
RAG	Ragged	REP	Report or reporting or reporting
RAG	Runway arresting gear		point
RAI	Runway alignment Indicator	REQ	Request or requested
RAIL~	Runway alignment indicator lights	RERTE	Re-route
	(always installed with other lighting systems.)	RESA	Runway end safety area
RAIM†	Receiver autonomous integrity	RF	Constant radius arc to a fix
	monitoring	RFFS	Rescue and fire services
RASC†	Regional AIS system centre	RG	Range <i>(lights)</i>
RASS	Remote altimeter setting source	RHC	Right-hand circuit
RB	Rescue Boat	RIF	Reclearance in flight
RCA	Reach cruising altitude	RIME†	Rime (used in aerodrome warnings)
RCC	Rescue Co-ordination centre	RI	Report leaving
RCF	Radiocommunication failure	RI ~	Runway edge lights
RCH	Reach or reaching	RLA	Relay to
RCL	Runway centre line	RLCE	Request level change en-route
RCLL	Runway centre line light(s)	RLLS	Runwav lead-in lighting system
RCLR	Recleared	RLNA	Requested level not available
RCP [‡]	Required communication	RMK	Remark
- +	performance	RNAV†	(to be pronounced "AR-NAV")
RDOACT	Radioactive	I	Area navigation
Rd~	Red	RNG	Radio range
RDH	Reference datum height	RNP‡	Required navigation performance
RDH~	Reference datum height (for ILS)	ROBEX†	Regional OPMET bulletin
RDL	Radial		exchange <i>(scheme)</i>



GEN 2.2-19 15 JAN 25

ROC	Rate of climb	RTG	Radiotelegraph
ROD	Rate of descent	RTHL	Runway threshold light(s)
ROLL~	Runway centre line light(s)	RTN	Return or returned or returning
RON	Receiving only	RTODAH	Rejected take-off distance available, helicopter
RPDS	Reference path data selector	RTS	Return to service
RPI‡	Radar position indicator	RTT	Radio teletypewriter
RPL	Repetitive flight plan		Runway taughdown zong light(g)
RPLC	Replace or replaced		Standard ragional rauta
RPS	Radar position symbol	RUI	transmitting frequencies
RPT*	Repeat or I repeat (to be used in AFS as a procedure signal)	RV	Rescue vessel
RQ*	Request (to be used in AFS as a	RVA	Radar vectoring area
	procedure signal)	RVR‡	Runway visual range
RQ~	Indication of a request (to be used in AFS as a procedure signal)	RVSM‡	Reduced vertical separation minimum (300 m (1000 ft)
RQMNTS	Requirements		between FL 290 and FL 410
RQP	Request flight plan <i>(message</i>	RWY	Runway
ROS	Request supplementary flight	S	South or southern latitude
Ngo	plan (message type designator)	s	State of the sea (followed by
RR	Report reaching	0	figures in METAR/SPECI)
RRA	(or RRB, RRCetc in sequence)	S~	Standard VASI
	(message type designator)	S~	Strobes
RSA~	Republic of South Africa	S1~	Hangarage
RSC	Rescue sub-centre	S2~	Hangarage and minor aircraft repairs
RSCD	Runway surface condition	S3~	Hangarage, minor aircraft repairs
RSP‡	Required surveillance		and minor engine repairs
	performance	S4~	Hangarage, major aircraft repairs
RSP	Responder beacon		and minor engine repairs
RSR	En-route surveillance radar	S5~	Hangarage, major aircraft repairs
RSS	Root sum square	54	Sond
RTD	Delayed (used to indicate delayed meteorological message; message type designator)	SACAA~	South African Civil Aviation Authority
RTE	Route	SA-CARS~	South African Civil Aviation
RTF	Radiotelephone		Regulations

Civil Aviation Authority

AMDT 1/25



GEN 2.2-20 15 JAN 25			AIP South Africa
			/
SALS~	Short approach light system. May	SECT	Sector
	flashing lights (SALSF) or runway	SELCAL†	Selective calling system
	alignment indicator lights	SEP	September
	(SALSR)	SER	Service or servicing or served
SALS	Simple approach lighting system Sanitary	SEV	Severe (used e.g. to qualify icing and turbulence reports)
SAND~	Sandy soil	SFC	Surface
SANDF~	South African National Defence	SG	Snow grains
	Force	SGL	Signal
SAPS~	South African Police Service	SH	Shower (followed by RA = rain,
SAR	Search and rescue		SN = snow, PL = ice pellets, GR =
SARPS	Standards and Recommended Practices [ICAO]		nall, GS = small nall and/or show pellets or combinations thereof, e.g. SHRASN = showers of rain
SAT	Saturday		and snow)
SATCOM†	Satellite communication (used only when referring generally to	SHF	Super high frequency [3 000 to 30 000 MHz]
	both voice and data satellite communication or only data	SI	International system of units
	satellite communication)	SID†	Standard instrument departure
SATVOICE	Satellite voice communication	SIF	Selective identification feature
Ť		SIG	Significant
SB	Southbound	SIGMET†	information concerning en-route
SBAS†	(to be pronounced "ESS-BAS") Satellite-based augmentation system		weather and other phenomena in the atmosphere that may affect the safety of aircraft operations
SC	Stratocumulus	SIMUL	Simultaneous or simultaneously
SCT	Scattered	SITA~	Societe international de
Sd~	Sodium		Telecommunication Aeronautique
SD	Standard deviation		system)
SDBY	Stand by	SIWL	Single isolated wheel load
SDF	Step down fix	SKED	Schedule or scheduled
SE	South-east	SLP	Speed limiting point
SEA	Sea (used in connection with sea	SLW	Slow
	surface temperature and state of the sea)	SMC	Surface movement control
SEB	South-Eastbound	SMR	Surface movement radar
SEC	Seconds	SN	Snow
SECN	Section		

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SNOCLO	Aerodrome closed due to snow	SSR‡	Secondary surveillance radar
	(used in the METAR/SPECI)	SST	Supersonic transport
SNOWTAM	A special series NOTAM notifying the presence or removal of	SSW	South-south-west
I	hazardous conditions due to	ST	Stratus
	snow, ice, slush or standing water	STA	Straight-in approach
	ice on the movement area, by	STAR†	Standard instrument arrival route
	means of a specific format	STD	Standard
SOC	Start of climb	STF	Stratiform
SPECI†	Aerodrome special meteorologi- cal report (in meteorological	STN	Station
	code)	STNR	Stationary
SPECIAL†	Local special meteorological	STOL	Short take-off and landing
	report (in abbreviated plain language)	STS	Status
SPI	Special position indicator	STWL	Stopway light(s)
SPI	Supplementary flight plan	SUBJ	Subject to
0. 2	(message type designator)	SUN	Sunday
SPOC	SAR point of contact	SUP	Supplement (AIP Supplement)
SPOT†	Spot wind	SUPPS	Regional supplementary procedures
SQ	Squall	SVC	' Service (message type only)
SQL	Squall line	SVCBI	Serviceable
SR	Sunrise	SW	South-west
SRA	Surveillance radar approach	SWB	South-westbound
SRE	Surveillance radar element of	SWX	Space weather
SRG	Short range	SWXC	Space weather centre
SRR	Search and rescue region	SWY	Stonway
SRY	Secondary	т	clopingy
SS	Sandstorm	Т~	"T" Type
SS	Sunset	т	Temperature
SSALS~	Simplified short approach light system. May be installed with sequenced flashing lights (SSALS) or runway alignment indicator lights (SSALR)	T	True (preceded by a bearing to
		ТΔ	Traffic advisory
		ТА	Transition altitude
SSB	Single sideband	ΤΔΔ	Terminal arrival altitude
99E	South south oast	TACANI	LIHE tactical air pavigation aid
JUE	South-South-east	ROAN	orni lactical all haviyation alu

AIP South Africa

GEN 2.2-22 15 JAN 25			AIP South Africa
TAF ⁺	Aerodrome forecast <i>(in</i>	TLOF	Touchdown and lift-off area
i/ u	meteorological code)	TMA†	Terminal control area
TA/H	Turn at an altitude/height	TMM~	Transmissometer
TAIL†	Tail, wind	TN	Minimum temperature (followed
TAR	Terminal area surveillance radar		by figures in TAF)
TAS	True airspeed	TNA	Turn altitude
TAX	Taxiing <i>or</i> taxi	TNH	Turn height
тс	Tropical cyclone	ТО	To <i>(place)</i>
TCAC	Tropical cyclone advisory centre	тос	Top of climb
TCAS RA†	(to be pronounced "TEE-CAS-	TODA	Take-off distance available
	AR-AY") Traffic alert and collision avoidance system resolution advisory	TODAH	Take-off distance available, helicopter
тсн	Threshold crossing height	TOP†	Cloud top
тсц	Towering cumulus	TORA	Take-off run available
	Tornado	тох	Toxic
	Touchdown zone	TP	Turning point
TECR	Technical reason	TPI~	Traffic Pattern Indicator
TEI		TR	Track
TEMPO†	Temporary or temporarily	TRA	Temporary reserved airspace
TE	Track to fix	TRANS	Transmits or transmitter
TF~		TREND†	Trend forecast
TEC	Traffic	TRL	Transition level
TGI	Touch-and-go landing	TRG	Training
TGS	Taxiing guidance system	TROP	Tropopause
THR	Threshold	TS	Thunderstorm (in aerodrome
THRU	Through		reports and forecasts, <i>IS</i> used alone means thunder heard but
THU	Thursday		no precipitation at the aerodrome)
TIBA†	Traffic information broadcast by aircraft	TS	Thunderstorm (followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hair and/or
TIL†	Until		snow pellets or combinations
TIP	Until past <i>(place)</i>		thereof e.g. TSRASN = thunderstorm with rain and snow)
TKOF	Take-off	TSO*	Technical Standard Order
TL	Till (followed by time by which weather change is forecast to end)	TSUNAMI†	Tsunami (used in aerodrome warnings)



тт	Teletypewriter	ULM	Ultra light motorized aircraft
TUE	Tuesday	ULR	Ultra long range
TURB	Turbulence	UNA	Unable
T-VASIS†	(to be pronounced "TEE-VASIS")	UNAP	Unable to approve
	T visual approach slope indicator systems	UNL	Unlimited
TVOR	Terminal VOR	UNREL	Unreliable
TWR	Aerodrome control tower <i>or</i> Aerodrome control	UP	Unidentified precipitation (used in automated METAR/SPECI)
TWY	Taxiway	U/S	Unserviceable
тх	Maximum temperature <i>(followed</i>	UTA	Upper control area
	by figures in TAF)	UTC‡	Coordinated Universal Time
TXL	Taxilane		
TXT*	Text (when the abbreviation is	v	
	used to request a repetition, the question mark (IMI) precedes the	V~	High intensity
abbreviation, e.g. IMI TXT) used in AFS as a procedure signal)	abbreviation, e.g. IMI TXT) (to be used in AFS as a procedure signal)	V	Variations from the mean wind direction (preceded and followed by figures in METAR/SPECI, e.g. 350/070)
TYP	Type of aircraft	٧/۵	Heading to an altitude
ТҮРН	Typhoon		Volcanic ash
U		VAAC	Volcanic ash advisory centre
(u)~	Uni-directional	VAC	Visual approach chart (followed
U	Upward (tendency in RVR during previous 10 minutes)	wie	by name/title)
UА	Unmanned aircraft	VAL	In valleys
	Lintil advised by	VAN	Runway control van
	Upper area control centre	VAR	Magnetic variation
UAR	Upper air route	VAR	Visual-aural radio range
UAS	Unmanned aircraft system	VASIS	Visual approach slope indicator
UDF	Ultra high frequency direction-		system
021	finding station	VC	(followed by FG = fog, FC =
UFN	Until further notice		funnel cloud, SH = shower, PO =
UHDT	Unable higher due traffic		dust/sand whiris, BLDU = blowing dust, BLSA = blowing sand,
UHF‡	Ultra high frequency [300 to 3000 MHz]		BLSN = blowing snow, DS = duststorm, SS = sandstorm, TS =
UIC	Upper information centre		tnunderstorm or VA = volcanic ash, e.g. VCFG = vicinity foq)
UIR‡	Upper flight Information region		



15 JAN 25 W West or western longitude VCCS~ Voice Control Communication System W White VCY Vicinity W... Sea-surface temperature VDF Very high frequency direction-(followed by figures in METAR/ SPECI) finding station VER W~ Watt Vertical WAAS† VFR[‡] Wide area augmentation system Visual flight rules World Aeronautical Chart-ICAO VHF‡ Very high frequency (30 to 300 WAC 1:1 000 000 (followed by name/ MHz) title) VI Heading to an intercept WAFC World area forecast centre VIP‡ Very important person WB Westbound VIS Visibility WB~ Wing bar (lights always green VLF Very low frequency [3 to 30 kHz] unless specified) VLR Very long range WBAR Wing bar lights VM Heading to a manual termination WDI Wind direction indicator VMC‡ Visual meteorological conditions WDSPR Widespread VNAV† (to be pronounced "VEE-NAV") WED Wednesday Vertical navigation WEF With effect from or effective from VOL Volume (followed by I, II...) WGS-84 World Geodetic System - 1984 VOLMET[†] Meteorological information for WH~ Blasting aircraft in flight VOR‡ VHF omnidirectional radio range WI Within WID Width or wide VORTAC† VOR and TACAN combination WIE With immediate effect or effective VOT VOR airborne equipment test immediately facility VPA WILCO† Will comply Vertical path angle VPT Visual manoeuvre with WIND Wind prescribed track WIP Work in progress VRB Variable WKN Weaken or weakening VSA By visual reference to the ground WNW West-north-west VSP Vertical speed WO Without VTF Vector to final WPT Way-point VTOL Vertical take-off and landing WRNG Warning VV... Vertical visibility (followed by WS Wind shear figures in METAR/SPECI and WSPD Wind speed TAF) WSW West-south-west w

AMDT 1/25

GEN 2.2-24



GEN 2.2-25 15 JAN 25

WT	Weight	Gregorian	Calendar in general use; first intro-
WTSPT	Waterspout	calendar:	more closely approximates the
WWW	Worldwide web		tropical year than the Julian calen-
WX	Weather	Aeronautical	Aeronautical data and aeronautical
WXR	Weather radar	Information	information provided either as
Х		Product	digital data sets or as a standardized presentation in paper.
Х	Cross		or electronic media.
XBAR	Crossbar (of approach lighting system)		Aeronautical information products include: AIP, including amendments and supplements; AIC; aeronautical
XNG	Crossing		charts; NOTAM and digital data
XS	Atmospherics	Logon	Sels.
Y		address:	data link logon to an ATS unit.
Y	Yellow	Portrayal:	Presentation of information to hu-
YCZ	Yellow caution zone (runway		mans (ISO 19117).
	lighting)	Precision:	The smallest difference that can be reliably distinguished by a measure-
YES*	Yes (affirmative) (to be used in AES as a procedure signal)		ment process.
YR	Your	Route stage:	A route or portion of a route flown without an intermediate landing.
Z		Station	An alignment variation between
Z	Coordinated Universal Time (in meteorological messages)	declination	the zero degree radial of a VOR and true north, determined at the time the VOR station is calibrated.

LIST OF DEFINITIONS/GLOSSARY OF TERMS

Calendar:	Discrete temporal reference system that provides the basis for defining temporal position to a resolution of one day (ISO 19108).
Geoid:	The equipotential surface in the gravity field of the Earth which coincides with the undisturbed mean sea level (MSL) extended continuously through the continents.
Geoid undulation:	The distance of the geoid above (positive) or below (negative) the mathematical reference ellipsoid.

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GEN 2.3 CHARTS SYMBOLS

1. Topography	
Contours	
	5000
	2 Dr
Approximate contours	
	15000
Relief shown by hachures	
Mountain pass	
	× /
	• 5395
	/ \
Spot elevation	
	.6397
	.8975
Spot elevation (of doubtful accuracy)	
	.6370 ⁺ -

GEN 2.3-2 15 JUL 19

Highest elevation on chart Highest elevation on chart (Alternative)	17456
	.17456
Bluff, cliff or escarpment	
	June and a state
Sand dunes	
Sand area	
Gravel	
	6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Levee or esker	

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AMDT 3/19

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Levee or esker (Alternative)	**********
Coniferous trees	▲▲ - - ▲ - ▲
Other trees	
Palms	T.T.T.
Areas not surveyed for contour information or relief data incomplete	Caution
2. Hvdrography	
Shore line (reliable)	

2. Hydrography	
Shore line (reliable)	
Shore line (unreliable)	



GEN 2.3-4 15 JUL 19

Tidal flats	
Coral reefs and ledges	EVITENELEUM.
Large river (perennial)	
Small river (perennial)	Z
Rivers and streams (non-perennial)	
Rivers and streams (non~perennial) (Alternative)	
Rivers and streams (unsurveyed)	



GEN 2.3-5 15 JUL 19

Rapids	
Falls	
Canal	
Abandoned canal Note:- Dry canal having landmark value	
Lakes (perennial)	
	\sim
Lakes (non-perennial)	
Lakes (non-perennial) (Alternative)	
Salt lake	
Salt pans (evaporator)	



GEN 2.3-6 15 JUL 19

Swamp	
Spring, well or water hole (perennial)	
	•
Spring, wen or water hole (intermittent)	
	0
Reservoir	
	Reservoir
Dry lake bed	
Dry lake bed (Alternative)	
Wash	
Wash (Alternative)	
Shoals	



GEN 2.3-7 15 JUL 19

÷
+
÷
Covered Reef

3. Built-up areas	
City or large town	
Town	00
Village	0
Buildings	



GEN 2.3-8 15 JUL 19

4. Highways and Roads	
Dual highway	
Primary road	
Secondary road	
Trial	
Road bridge	- <u></u>
Road tunnel	→ (–

5. Railroads	
Railroad (single track)	
	-+-+-
Railroad bridge	
	- <u>)</u>
Railroad (two or more tracks)	
	## * *

(A)
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GEN 2.3-9 15 JUL 19

Railroad (under construction)	
	+ +
Railroad tunnel	
	+)(+
Pailrand station	
Rairoad station	
	+=+-+
L	
6 Miscellaneous	
Boundaries (international)	
Outer boundaries	
Fence	
	X — X — X
Telegraph or telephone line (when a landmark)	
	—T—T—T—
Dam	
Ferry	
	//
	/ /



GEN 2.3-10 15 JUL 19

Pipeline	
	Pipeline
Oil or gas field	
	A
Tank farms	
	•••
Nuclear power station	
	8
Coast guard station	
	+
Look out tower	
Mine	\mathbf{x}
Forest ranger station	
Race track or stadium	
	\bigcirc
Ruins	

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Fort	Ц
Church	5
Mosque	8
Pagoda	9
Temple	ĥ
Prominent transmission line	
Isogonic line or isogonal	3º E
Ocean station vessel (normal position)	
7. Aerodromes	



GEN 2.3-12 15 JUL 19

Civil Water	
Civii water	
	•
Military Land	
	\bigcirc
)
Military Water	
	•
Joint civil and military Land	
	\frown
	Ŷ
Joint civil and military Water	
	- (
	Ŷ
Emergency aerodrome or aerodrome with no facilities	
	\cap
	\bigcirc
Abandanad ar alagad garadrama	
Abandoned of closed aerodrome	
	\sim
	(\wedge)
Sheltered anchorage	•
	٥
	J.
	•
Aerodrome for use on charts on which aerodrome classification is	
not required e.g. Enroute Charts	
	. T
	\sim


GEN 2.3-13 15 JUL 19

Heliport (Note: Aerodrome for the exclusive use of helicopters)	
	(H)
	<u> </u>
	<u> </u>
Note:- Where required by the function of the chart, the runway	
pattern of the aerodrome may he shown in lieu of the aerodrome	+
symbols, for example	
	· • • • •
Aerodrome data in abbreviated form which may be in association v	vith aerodrome symbols
Name of aerodrome	
Flavation since in the units of measurements /	anoth of langest runway in hundrade of maters or fact
Elevation give in the units of measurements (meters or	Length of longest runway in hundreds of meters of leet
feet) selected for use on the chart	(whichever unit is selected for use on the chart)
LIVINGSTONE	
267 06	
Minimum lighting - obstacles houndary or	
minimum lighter and lighted wind indicates or	Dunway hard surfaced normally all weather
runway lights and lighted wind indicator or —	Runway natu sunaceu, normany an weather
Accordromos affecting the traffic pattern on the corodrome on which	
the procedure is based	
The aerodrome on which the procedure is based	
	,
8. Radio Navigation Aids	
Basic radio navigation aid symbol (Note:-This symbol may be used	
with or without a box to enclose the data)	
	0

GEN 2.3-14 15 JUL 19 AIP South Africa

Non-directional radio beacon NDB VHF omnidirectional radio range VOR \odot Distance measuring equipment DME • Co-located VOR and DME radio navigation К·Х DME distance Distance in kilometers (nautical miles) to DME • 15 km • K A V Identification of radio navigation aid VOR radial Radial bearing from, R025 HGV UHF tactical air navigation aid (TACAN)



GEN 2.3-15 15 JUL 19

Collocated VOR and TACAN radio navigation aids (VORTAC)	
	*
Instrument landing system (ILS) Plan View	
instrument landing system (ILS) Plan view	
Instrument landing system (ILS) Profile	
Radio marker beacon (Elliptical)	
Note:- Marker beacon may be shown by outline, or stipple, or both	
Compass rose	
To be orientated on the chart in accordance with the alignment of the station (normally Magnetic North)	Kerr of the second
Note: Additional points of compass may be added as required	A LINE SI A LINE
Compass rose to be used as appropriate in combination with the following symbols:	
VOR	
	\odot



GEN 2.3-16 15 JUL 19

VOR/DME	
TACAN	
	6
	•
VORTAC	
	* **
	V
	-
9. Air Traffic Services	
Flight information region (FIR)	
Aerodrome traffic zone (ATZ)	
ATC service boundary	
Control area (CTA) Airway (AWY) Controlled route	



Uncontrolled route	
Advisory airspace (ADA)	
Auvisory anspace (ADA)	
Control Zone (CTR)	
Air defence identification zone (ADIZ)	
	ADIZ
Advisory route (ADB)	
Advisory route (ADR)	
	=====
Visual flight path	
compulsory, with radio communication requirement	
	\dots (R) \dots
Visual flight path	
compulsory, without radio communication requirement	_
	\cdots (\mathbb{R}) \cdots
	XY
Visual flight path	
recommended	
Scale-break (on ATS route)	

GEN 2.3-18 15 JUL 19 AIP South Africa

Scale-break (on ATS route) Alternative	
Reporting point Compulsory	
Reporting point On request	\bigtriangleup
Change-over point (COP) To be superimposed on the appropriate route symbol at right angles to the route	26 36
Final Approach Fix (FAF)	*
Altitudes/flight levels	
Altitude/flight level "window"	
	17 000 FL 220 10 000 10 000
"At or above" altitude/flight level	<u>7 000 FL 70</u>
"At or below" altitude/flight level"	5 000 FL 50
"Mandatory" altitude/flight level	3 000 FL 30
" Recommended ' procedure altitude/ flight level	5 000 FL 50

AMDT 3/19



GEN 2.3-19 15 JUL 19

"Expected" altitude	
	Expect 5000 Expect FL 50
Note:For use only on SID and STAR charts. Not intended for depicti altitude	on of minimum obstacle clearance
10. Obstacles	
Obstacle	
	\wedge
Group obstacle	
	<u>/.x.</u>
Lighted obstacle	
	\geq
	8
Lighted group obstacle	
Exceptionally high obstacle lighted (above 100m GND)	
	\checkmark
Exceptionally high obstacle - lighted (optional symbol)	
Note: For obstacle having a height of the order of 300 m (1 000 ft) above terrain	X
Elevation of top (italice)	Height above specified datum
	(upright type in parentheses)

Civil Aviation Authority

AMDT 3/19

GEN 2.3-20 15 JUL 19



11. Aerodrome/Heliport Charts	
Hard surface runway	
Unpaved runway	
Stopway (SWY)	
Taxiways and parking areas	
Helicopter alight area on an aerodrome	
Aerodrome reference point (ARP)	
	<u></u>
	Ψ
VOR check-point	
	40
	- V
Runway visual (RVR) observation site	
Pierced steel plank or steel mesh runway	



Point light	
Point light	0
Obstacle light	⇒ <mark>l</mark> ≮
Landing direction indicator (lighted)	
	Ť
Landing direction indicator (unlighted)	
	т
Stop bar	•_••
Runway-holding position	
Pattern A	
Note: For application, see Annex 14, Volume I, paragraph 5.2.10	
Runway-holding position	
Pattern B	
Note: For application, see Annex 14, Volume I, paragraph 5.2.10	





12. Airspace C	assifications
Airspace classifica	ations
	A
	D
	E
	F
	TMA DONLON 119.1 C 200m AGL - FL 245 Type Name or Radio Airspace Vertical call sign frequency(ies) classification limits
	TMA DONLON FL 245 200m AGL 119.1



15. Additional Symbols for use on Paper and Electronic Charts	
PLAN VIEW	
Minimum sector altitude (MSA)	
Note:- This symbol may be modified to reflect particular sector shapes.	8700 ⁻ 8700 ⁻ 06 ^{0°} 8700 ⁻ 8700 ⁻ 8700 ⁻ 8700 ⁻ 8700 ⁻



GEN 2.3-24 15 JUL 19

Terminal arrival altitude (TAA)	
Note:- This symbol may be modified to reflect particular TAA shapes	099° CT2N2 TAA 5100' 88 100' 88
Holding pattern	
Missed approach track	
PROFILE	
Runway	
	NM FROM THR RWY 10
Radio navigation aid (type of aid and its use in the procedure to be annotated on top of the symbol)	
Radio Marker beacon (type of beacon to be annotated on top of the symbol)	



GEN 2.3-25 15 JUL 19

Collocated radio navigation aid and marker beacon (type of aid to be annotated on top of the symbol)	
DME fix (distance from DME and the fix use in the procedure to be annotated on top of the symbol)	
Collocated DME fix and marker beacon (distance from DME and the type of beacon to be annotated on top of the symbol).	

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GEN 2.4-1 15 JAN 25

GEN 2.4 LOCATION INDICATORS

1. ENCODE

The location indicators marked with an asterisk (*) cannot be used in the address component of AFS messages.

		LOCATION	INDICATOR
		GRAAFF-REINET	FAGR*
OCATION		GRAND CENTRAL	FAGC
GENEYS	FAAG*	GREYTOWN	FAGY*
	FAAB*	GROBLERSDAL	FAGL*
	FAAN*	HALFWEG	FAHI*
	FACO*	HEIDELBERG	FAHG*
	FABV*	HLUHLUWE	FAHL*
	FABM*	HOWICK	FAHC*
	FABE	INTERNATIONAL NOTAM	FAJN
		OFFICE	
		AIR/RESEARCH CENTRE)	FAIR*
RO ESTATE)	TANT	JOHANNESBURG FIR	FAJA
RAM FISCHER INTL	FABL	JOHANNESBURG (CITY)	FAJB*
AKPAN	FABB*	JOHANNESBURG OCEANIC	FAJO
ITS	FABS*	KAROO GATEWAY	FABW*
VINIA (MET)	FACV*	KIMBERLEY	FAKM
'E TOWN FIR	FACA	KING SHAKA INTERNATIONAL	FALE
APE TOWN INTERNATIONAL	FACT	KLERKSDORP	FAKD*
PE WINELANDS	FAWN*	KROONSTAD	FAKS*
RNARVON	FACN*	KRUGERSDORP	FAKR*
IVIL AVIATION AUTHORITY	FAHQ	KRUGER MPUMALANGA	FAKN
E AAR	FADA*	INTERNATIONAL	
E AAR (MET)	FADY*	KWANDWE	FAKG*
LAREYVILLE	FADL*	LADYSMITH	FALY*
WAALBOOM	FADB*	LANSERIA INTERNATIONAL	FALA
NG PHALO	FAEL	LICHTENBURG	FALI*
RMELO	FAEO*	LOUIS TRICHARDT (CIVIL)	FALO*
CKSBURG	FAFB*	MAJUBA POWER STATION	FAMJ*
ORT BEAUFORT	FAFO*	MALAMALA	FAMD*
REEWAY	FAFW*	MALELANE	FAMN*
GARIEP DAM	FAHV*	MARGATE	FAMG*
EORGE	FAGG	MICROLAND FLIGHT PARK	FABA*
ORGE DICK MONTSHIOA	FAMM	MTHATHA	FAUT

AIP South Africa

GEN 2.4-2 15 JAN 25

1. ENCODE	
LOCATION	INDICATOR
MIDDELBURG (EASTERN CAPE)	FAMC*
MIDDELBURG (MPUMALANGA)	FAMB*
MKUZE	FAMU*
MILLVALE	FAMS*
MOSSELBAY	FAMO*
NELSPRUIT	FANS*
NEWCASTLE	FANC*
NEW TEMPE	FATP*
ORIENT	FAOI*
O R TAMBO INTERNATIONAL	FAOR
OUDTSHOORN	FAOH*
PARADISE BEACH	FAPX*
PHALABORWA	FAPH*
PIET RETIEF	FAPF*
PIETERMARITZBURG	FAPM
PIETERSBURG (CIVIL)	FAPI*
PILANESBERG INTERNATIONAL	FAPN
PLETTENBERG BAY	FAPG*
POLOKWANE INTERNATIONAL	FAPP
PORT ALFRED	FAPA*
CHIEF DAWID STUURMAN INTERNATIONAL	FAPE
POTCHEFSTROOM	FAPS*
PRETORIA (MET)	FAPR
PRIESKA	FAPK*
PROGRESS	FAPZ*
QUEENSTOWN	FAQT*
RAND	FAGM
REIVILO	FARI*
RICHARDS BAY	FARB
ROBERTSON	FARS*
RUSTENBURG	FARG*
SABI SABI	FASE*
SALDANHA-VREDENBURG	FASD*

1. ENCODE	
LOCATION	INDICATOR
SECUNDA	FASC*
SISHEN	FASS*
SKUKUZA	FASZ*
SPRINGBOK	FASB*
SPRINGS	FASI*
STELLENBOSCH	FASH*
ST FRANCIS FIELD	FACF*
SWELLENDAM	FASX*
TEDDERFIELD AIR PARK	FATA*
THABA THOLO	FATG*
TOMMY'S FIELD	FATF*
TSWALU GAME RESERVE	FATW*
TUTUKA	FATT*
TZANEEN	FATZ*
UITENHAGE	FAUH*
ULUNDI	FAUL*
ULUSABA	FAUS*
UPINGTON INTERNATIONAL	FAUP
VENETIA MINE	FAVM*
VIRGINIA/DURBAN	FAVG
VREDENDAL	FAVR*
WARMBATHS	FAWA*
WELKOM	FAWM*
WILLISTON	FAWL*
WITBANK	FAWI*
WONDERBOOM	FAWB
WORCESTER	FAWC*

AMDT 1/25



2. DECODE	
INDICATOR	LOCATION
FAAB*	ALEXANDER BAY
FAAG*	AGGENEYS
FAAN*	ALIWAL NORTH
FABA*	MICROLAND FLIGHT PARK
FABB*	BRAKPAN
FABE	BHISHO
FABL	BRAM FISCHER INTERNATIONAL
FABM*	BETHLEHEM
FABP*	BLACK ROCK
FABS*	BRITS
FABW*	KAROO GATEWAY
FABY*	BEAUFORT WEST TOWN (MET)
FACA	CAPE TOWN FIR
FACF*	ST FRANCIS FIELD
FACN*	CARNARVON
FACO*	ALKANTPAN
FACT	CAPE TOWN INTERNATIONAL
FACV*	CALVINIA (MET)
FADA*	DE AAR
FADB*	DWAALBOOM
FADL*	DELAREYVILLE
FADY*	DE AAR (MET)
FAEL	KING PHALO
FAEO*	ERMELO
FAFB*	FICKSBURG
FAFO*	FORT BEAUFORT
FAFW*	FREEWAY
FAGC	GRAND CENTRAL
FAGG	GEORGE
FAGL*	GROBLERSDAL
FAGM*	RAND
FAGR*	GRAAFF-REINET
FAGY*	GREYTOWN

2. DECODE	
INDICATOR	LOCATION
FAHC*	HOWICK
FAHG*	HEIDELBERG
FAHI*	HALFWEG
FAHL*	HLUHLUWE
FAHQ	CIVIL AVIATION AUTHORITY
FAHV*	GARIEP DAM
FAIR*	IRENE (MET UPPER AIR/RESEARCH CENTRE)
FAJA	JOHANNESBURG FIR
FAJB*	JOHANNESBURG (CITY)
FAJN	INTERNATIONAL NOTAM OFFICE
FAJO	JOHANNESBURG OCEANIC
FAKD*	KLERKSDORP
FAKG*	KWANDWE
FAKM	KIMBERLEY
FAKN	KRUGER MPUMALANGA INTERNATIONAL
FAKR*	KRUGERSDORP
FAKS*	KROONSTAD
FAKT*	BOSCHKOP (KITTY HAWK AERC ESTATE)
FALA	LANSERIA INTERNATIONAL
FALE	KING SHAKA INTERNATIONAL
FALI*	LICHTENBURG
FALO*	LOUIS TRICHARDT (CIVIL)
FALY*	LADYSMITH
FAMB*	MIDDELBURG (MPUMALANGA)
FAMC*	MIDDELBURG (EASTERN CAPE)
FAMD*	MALAMALA
FAMG*	MARGATE
FAMJ*	MAJUBA POWER STATION
FAMM	GEORGE DICK MONTSHIOA
FAMN*	MALELANE
FAMO*	MOSSELBAY
FAMS*	MILLVALE

AMDT 1/25



GEN 2.4-4 15 JAN 25

2. DECODE	
INDICATOR	LOCATION
FAMU*	MKUZE
FANC*	NEWCASTLE
FANS*	NELSPRUIT
FAOH*	OUDTSHOORN
FAOI*	ORIENT
FAOR	O R TAMBO INTERNATIONAL
FAPA*	PORT ALFRED
FAPE	CHIEF DAWID STUURMAN INTERNATIONAL
FAPF*	PIET RETIEF
FAPG*	PLETTENBERG BAY
FAPH*	PHALABORWA
FAPI*	PIETERSBURG (CIVIL)
FAPK*	PRIESKA
FAPM	PIETERMARITZBURG
FAPN	PILANESBERG INTERNATIONAL
FAPP	POLOKWANE INTERNATIONAL
FAPR	PRETORIA (MET)
FAPS*	POTCHEFSTROOM
FAPX*	PARADISE BEACH
FAPZ*	PROGRESS
FAQT*	QUEENSTOWN
FARB	RICHARDS BAY
FARG*	RUSTENBURG
FARI*	REIVILO
FARS*	ROBERTSON
FASB*	SPRINGBOK
FASC*	SECUNDA
FASD*	SALDANHA-VREDENBURG
FASE*	SABI SABI
FASH*	STELLENBOSCH
FASI*	SPRINGS
FASS*	SISHEN
FASX*	SWELLENDAM

2. DECODE	
INDICATOR	LOCATION
FASZ*	SKUKUZA
FATA*	TEDDERFIELD AIR PARK
FATF*	TOMMY'S FIELD
FATG*	THABA THOLO
FATP*	NEW TEMPE
FATT*	TUTUKA
FATW*	TSWALU GAME RESERVE
FATZ*	TZANEEN
FAUH*	UITENHAGE
FAUL*	ULUNDI
FAUP	UPINGTON INTERNATIONAL
FAUS*	ULUSABA
FAUT	MTHATHA
FAVG	VIRGINIA/DURBAN
FAVM*	VENETIA MINE
FAVR*	VREDENDAL
FAWA*	WARMBATHS
FAWB	WONDERBOOM
FAWC*	WORCESTER
FAWI*	WITBANK
FAWL*	WILLISTON
FAWM*	WELKOM
FAWN*	CAPE WINELANDS

AMDT 1/25



The location indicators listed below are unlicensed, and operators are to use them at their own discretion

1. ENCODE	
LOCATION	INDICATOR
AIR CONTROL COMMAND (SAAF)	FAAC*
ABERDEEN	FAAE*
AIR FORCE HQ	FAAH
ALLDAYS	FAAL*
AMSTERDAM	FAAM*
ANDREWS FIELD	FAAF*
ARATHUSA SAFARI LODGE	FAAR*
ASKHAM	FAAK*
BARBERTON	FABR*
BARKLEY EAST	FABF*
BELFAST	FABH*
BOTHAVILLE	FABO*
BUFFELSHOEK	FABG*
BULTFONTEIN	FABU*
BURGERSDORP	FABD*
BUSHMANSKLOOF	FABK*
BUSHVELD AIRSPACE CONTROL SECTOR (SAAF)	FABC*
BUTTERWORTH	FABV*
CALEDON	FACG*
CARLETONVILLE	FACR*
CATHCART	FACX*
CEDARVILLE	FACZ*
CERES	FACE*
CHITWA CHITWA	FACC*
CLANWILLIAM	FACW*
CRADOCK	FACD*
DARLINGTON DAM	FADP*
DE DOORNS	FADS*
DELTA 200	FADX*

1. ENCODE	
LOCATION	INDICATOR
DENDRON	FADO*
DOCKS WATERFRONT	FADW*
DOUGLAS CAPE	FADC*
DRAKENBERG GARDENS	FADZ*
DRIEFONTEIN/FOCHVILLE	FADF*
DUKUDUKU	FADK*
DULLSTROOM	FADU*
ELLISRAS CONTROL REPORTING POINT (SAAF)	FAEA*
EKLAND RANCH	FAER*
ELGIN	FAEG*
ELLIOT	FAET*
EL MIRRADOR	FALQ*
EMPANGENI	FAEM*
ENTABENI	FAEN*
ESHOWE	FAES*
GOUGH ISLAND	FAGE*
GRAHAMSTOWN	FAGT*
GRAVELOTTE	FAGV*
GROOTFONTEIN	FAGF*
GROOTVLEI	FAGI*
HARDING	FAHJ*
HAZYVIEW (MET)	FAHW*
HEILBRON	FAHO*
HENNEMAN/HENNENMAN	FAHN*
HENRY'S FLATS	FAHF*
HIPPO POOLS	FAHD*
HOEDSPRUIT (SAAF)	FAHS
HOEDSPRUIT (CIVIL)	FAHT*
HOOPSTAD	FAHP*
H.M.S BASTARD	FAHU*
IDUTYWA	FAID*
INGWAVUMA	FAIV*
INGWELALA	FAIW*

Civil Aviation Authority

GEN 2.4-5 15 JAN 25

AIP South Africa

GEN 2.4-6 15 JAN 25

1. ENCODE	
LOCATION	INDICATOR
ISITHEBE	FAIS*
ITALA	FAIA*
JACKALBERRY	FAJC*
JAN KEMP DORP	FAJK*
JANSENVILLE	FAJV*
JOUBERTINA	FAJP*
KAGGA KAMMA	FAKA*
KEI MOUTH	FAKE*
KENTON ON SEA	FAKX*
KERSEFONTEIN	FAKF*
KLASERIE	FAKC*
KLEINSEE	FAKZ*
KOFFYFONTEIN	FAKV*
KOMATIPOORT	FAKP*
KOSI BAY	FAKB*
KOSTER	FAKO*
KRIEL	FAKL*
KURUMAN	FAKU*
LAMBERTS BAY	FALB*
LANGEBAANWEG (SAAF)	FALW
LIME ACRES	FALC*
LOERIESFONTEIN	FALF*
LOHATLA (ARMY)	FALH*
LONDOLOZI	FALD*
LYDENBURG	FALL*
MABALINGWE	FAMA*
MACLEAR	FAMF*
MADIKWE GAME RESERVE	FAMK*
MADIMBO	FAMP*
MAKHADO MILITARY AERODROME	FALM
MARBLE HALL	FAMI*
MARIEPSKOP (SAAF)	FAMR*
MARION ISLAND	EAME*

1. ENCODE	
LOCATION	INDICATOR
MAZZEPA BAY	FAMY*
MONTAGU	FAMQ*
MSAULI	FAMZ*
MUSSINA	FAMH*
NDUNO	FANO*
NGALA	FANG*
NGODWANA/SAPPI	FAND*
NONGOMA	FANA*
NTSIRI	FANI*
NYATHI	FANT*
NYLSTROOM	FANY*
OLIFANTSHOEK	FAOF*
OTHAWA	FAOL*
OVERBERG	FAOB
PAARL	FAPU*
PARYS	FAPY*
PAULPIETERSBURG MONDI	FAPC*
PETIT	FARA*
PETRUSVILLE	FAPV*
PHINDA	FADQ*
PIESANGHOEK	FAQB*
PIETERSRUS	FAPW*
PILGRIMS REST	FAPO*
POFADDER	FAPD*
POMFRET	FAQF*
PONGOLA	FAPL*
PORT ST JOHNS	FAPJ*
POSTMASBURG	FAPT*
POTGIETERSRUS	FAQR*
PUNDA MARIA	FAPQ*
REITZ	FARZ*
RICHMOND	FARM*
RIETFONTEIN	FARF*
ROCK FIG	FATD*

AMDT 1/25



GEN	12.4	-7
15	JAN	25

1. ENCODE	
LOCATION	INDICATOR
SANDHURST	FASA*
SCHWEIZER RENEKE	FASG*
SEAVIEW	FAEW*
SENEKAL	FASN*
SILVERMINE (SA NAVY)	FASV*
SINGITA SABI SAND	FASP*
SITEKA	FASM*
SOMERSET EAST	FAST*
SOMMERSVELD	FALS*
SOUTHERN AIR COMMAND (SAAF)	FASF*
STAR	FAZQ*
STEELPOORT	FASO*
STEYTLERVILLE	FALR*
STILBAAI	FACY*
STUTTERHEIM	FATM*
SUTHERLAND	FASL*
SYFERFONTEIN	FASY*
SWARTBERG	FAZG*
SWARTKOP (SAAF)	FASK*
TACTICAL SUPPORT COMMAND (SAAF)	FATS*
THABA N'CHU	FATN*
THABAZIMBI	FATI*
THOHOYANDOU	FATH*
THORNY BUSH GAME LODGE	FATB*
TRISTAN DE CUNHA	FATC*
TSITSIKAMA FLY-INN	FATK*
TWEE RIVIEREN	FATR*
ULCO	FAUC*
UGIE	FAUG*
UMTSHEZI MUNICIPALITY	FAEC*
UTRECHT	FAUR*
VAALPUTS	FAVA*
VANDERBIJLPARK	FAVP*

1. ENCODE	
LOCATION	INDICATOR
VASTRAP (MIL)	FAVS*
VERBORGENFONTEIN	FAVF*
VEREENIGING	FAVV*
VICTORIA WEST	FAVW*
VOLKSRUST	FAVU*
VREDENDAL	FAVR*
VRYBURG	FAVB*
VRYHEID	FAVY*
WATERKLOOF (SAAF)	FAWK
WATTS LANDING	FAWG*
WAVECREST	FAWR*
WELGEVONDEN	FAWE*
WESSELBRON	FAWS*
WHITE RIVER	FAWV*
WILLOWMORE	FAWO*
WINTERVELDT MINE	FAWT*
WOLMARANSTAD	FAWD*
YSTERPLAAT	FAYP
ZEERUST	FAZR*
ZULULAND ANTHRACITE COLLERY	FAZC*
ZUNEY	FAZU*

AIP South Africa

2. DECODE INDICATOR LOCATION AIR CONTROL COMMAND (SAAF) FAAC* ABERDEEN FAAE* FAAF* ANDREWS FIELD FAAH AIR FORCE HQ FAAK* ASKHAM FAAL* ALLDAYS AMSTERDAM FAAM* FAAR* ARATHUSA SAFARI LODGE BUSHVELD AIRSPACE CONTROL SECTOR (SAAF) FABC* FABD* BURGERSDORP FABF* BARKLEY EAST FABG* BUFFELSHOEK FABH* BELFAST FABK* BUSHMANS KLOOF FABO* BOTHAVILLE FABR* BARBERTON FABU* BULTFONTEIN FABV* BUTTERWORTH FACC* CHITWA CHITWA FACD* CRADOCK FACE* CERES FACG* CALEDON FACR* CARLETONVILLE FACW* CLANWILLIAM FACX* CATHCART FACY* STILBAAI FACZ* CEDARVILLE FADC* DOUGLAS CAPE FADF* DRIEFONTEIN/FOCHVILLE FADK* DUKUDUKU FADO* DENDRON FADP* DARLINGTON DAM FADQ* PHINDA

2. DECODE	
INDICATOR	LOCATION
FADS*	DE DOORNS
FADU*	DULLSTROOM
FADW*	DOCKS WATERFRONT
FADX*	DELTA 200
FADZ*	DRAKENSBERG GARDENS
FAEA*	ELLISRAS CONTROL REPORTING POINT (SAAF)
FAEC*	UMTSHEZI MUNICIPALITY
FAEG*	ELGIN
FAEM*	EMPANGENI
FAEN*	ENTABENI
FAER*	EKLAND RANCH
FAES*	ESHOWE
FAET*	ELLIOT
FAEW*	SEAVIEW
FAGE*	GOUGH ISLAND
FAGF*	GROOTFONTEIN
FAGI*	GROOTVLEI
FAGT*	GRAHAMSTOWN
FAGV*	GRAVELOTTE
FAHD*	HIPPO POOLS
FAHF*	HENRY'S FLATS
FAHJ*	HARDING
FAHN*	HENNEMAN/HENNENMAN
FAHO*	HEILBRON
FAHP*	HOOPSTAD
FAHS	HOEDSPRUIT (SAAF)
FAHT*	HOEDSPRUIT (CIVIL)
FAHU*	H.M.S. BASTARD
FAHW*	HAZYVIEW (MET)
FAIA*	ITALA
FAID*	IDUTYWA
FAIS*	ISITHEBE
FAIV*	INGWAVUMA

AMDT 1/25

GEN 2.4-8

15 JAN 25



GEN 2.4-9 15 JAN 25

INDICATORLOCATIONFAIW*INGWELALAFAJC*JACKALBERRYFAJC*JACKALBERRYFAJK*JAN KEMP DORPFAJV*JANSENVILLEFAKA*KAGGA KAMMAFAKB*KOSI BAYFAKC*KLASERIEFAKE*KEI MOUTHFAKF*KERSEFONTEINFAKC*KURUMANFAKV*KOSTERFAKV*KOFFYFONTEINFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALD*LONDOLOZIFALC*LIME ACRESFALD*LONDOLOZIFALL*LYDENBURGFALA*STEYTLERVILLEFALA*STEYTLERVILLEFALA*MARADORFALA*MARDARFALA*MARDARFALA*MARDARFALA*STEYTLERVILLEFALA*MARDARFAM*MARION ISLANDFAMF*MACLEARFAMF*MARBLE HALL	2. DECODE	
FAIW*INGWELALAFAJC*JACKALBERRYFAJK*JAN KEMP DORPFAJP*JOUBERTINAFAJV*JANSENVILLEFAKA*KAGGA KAMMAFAKB*KOSI BAYFAKC*KLASERIEFAKE*KEI MOUTHFAKF*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKP*KOMATIPOORTFAKU*KURUMANFAKZ*KLEINSEEFALX*KENTON ON SEAFAKZ*KLEINSEEFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALS*SOMMERVELDFALR*MARION ISLANDFAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	INDICATOR	LOCATION
FAJC*JACKALBERRYFAJK*JAN KEMP DORPFAJP*JOUBERTINAFAJV*JANSENVILLEFAKA*KAGGA KAMMAFAKB*KOSI BAYFAKC*KLASERIEFAKC*KLASERIEFAKF*KERSEFONTEINFAKL*KRIELFAKD*KOSTERFAKD*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALR*SOMMERVELDFALR*MARION ISLANDFAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAIW*	INGWELALA
FAJK*JAN KEMP DORPFAJP*JOUBERTINAFAJV*JANSENVILLEFAKA*KAGGA KAMMAFAKB*KOSI BAYFAKC*KLASERIEFAKC*KLASERIEFAKF*KERSEFONTEINFAKF*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKP*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALC*LIME ACRESFALD*LONDOLOZIFALH*LONDOLOZIFALH*LOHATLA (ARMY)FALL*LYDENBURGFALA*STEYTLERVILLEFALQ*EL MIRRADORFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAJC*	JACKALBERRY
FAJP*JOUBERTINAFAJV*JANSENVILLEFAKA*KAGGA KAMMAFAKB*KOSI BAYFAKC*KLASERIEFAKC*KLASERIEFAKE*KEI MOUTHFAKF*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKP*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALM*LANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAJK*	JAN KEMP DORP
FAJV*JANSENVILLEFAKA*KAGGA KAMMAFAKA*KOSI BAYFAKC*KLASERIEFAKE*KEI MOUTHFAKE*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKU*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALL*LYDENBURGFALA*SOMMERVELDFALR*SOMMERVELDFALR*MARALINGWEFAMA*MABALINGWEFAMF*MARBLE HALL	FAJP*	JOUBERTINA
FAKA*KAGGA KAMMAFAKB*KOSI BAYFAKC*KLASERIEFAKE*KEI MOUTHFAKF*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKV*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALAMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALM*LANGEBAANWEG (MIL - UNLICENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAJV*	JANSENVILLE
FAKB*KOSI BAYFAKC*KLASERIEFAKC*KEI MOUTHFAKE*KEI MOUTHFAKF*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKD*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAKA*	KAGGA KAMMA
FAKC*KLASERIEFAKE*KEI MOUTHFAKE*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKO*KOSTERFAKU*KURUMANFAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALL*LYDENBURGFALR*STEYTLERVILLEFALR*SOMMERVELDFALR*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAKB*	KOSI BAY
FAKE*KEI MOUTHFAKF*KERSEFONTEINFAKF*KRIELFAKO*KOSTERFAKO*KOMATIPOORTFAKV*KOFFYFONTEINFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAKC*	KLASERIE
FAKF*KERSEFONTEINFAKL*KRIELFAKO*KOSTERFAKO*KOMATIPOORTFAKU*KURUMANFAKU*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALH*LOHATLA (ARMY)FALL*LYDENBURGFALQ*EL MIRRADORFALR*STEYTLERVILLEFALR*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAKE*	KEI MOUTH
FAKL*KRIELFAKO*KOSTERFAKP*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALL*LYDENBURGFALA*STEYTLERVILLEFALR*STEYTLERVILLEFALR*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLICENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAKF*	KERSEFONTEIN
FAKO*KOSTERFAKP*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALL*LYDENBURGFALR*STEYTLERVILLEFALR*STEYTLERVILLEFALR*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLICENSED)FAMA*MABALINGWEFAMF*MACLEARFAMH*MUSSINAFAMI*MARBLE HALL	FAKL*	KRIEL
FAKP*KOMATIPOORTFAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALL*LYDENBURGFALQ*EL MIRRADORFALR*STEYTLERVILLEFALR*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMH*MUSSINAFAMI*MARBLE HALL	FAKO*	KOSTER
FAKU*KURUMANFAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALR*STEYTLERVILLEFALR*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLICENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAKP*	KOMATIPOORT
FAKV*KOFFYFONTEINFAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMF*MARBLE HALL	FAKU*	KURUMAN
FAKX*KENTON ON SEAFAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMH*MUSSINAFAMI*MARBLE HALL	FAKV*	KOFFYFONTEIN
FAKZ*KLEINSEEFALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMH*MUSSINAFAMI*MARBLE HALL	FAKX*	KENTON ON SEA
FALB*LAMBERTS BAYFALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAME*MARION ISLANDFAMF*MACLEARFAMH*MUSSINAFAMI*MARBLE HALL	FAKZ*	KLEINSEE
FALC*LIME ACRESFALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAMF*MACLEARFAMH*MUSSINAFAMI*MARBLE HALL	FALB*	LAMBERTS BAY
FALD*LONDOLOZIFALF*LOERIESFONTEINFALH*LOHATLA (ARMY)FALL*LYDENBURGFALMAFB MAKHADO MILITARYFALQ*EL MIRRADORFALR*STEYTLERVILLEFALS*SOMMERVELDFALWLANGEBAANWEG (MIL - UNLI-CENSED)FAMA*MABALINGWEFAME*MARION ISLANDFAMF*MACLEARFAMH*MUSSINAFAMI*MARBLE HALL	FALC*	LIME ACRES
FALF* LOERIESFONTEIN FALH* LOHATLA (ARMY) FALL* LYDENBURG FALM AFB MAKHADO MILITARY FALQ* EL MIRRADOR FALR* STEYTLERVILLE FALS* SOMMERVELD FALW LANGEBAANWEG (MIL - UNLI-CENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MUSSINA FAMI* MARBLE HALL	FALD*	LONDOLOZI
FALH* LOHATLA (ARMY) FALL* LYDENBURG FALM AFB MAKHADO MILITARY FALQ* EL MIRRADOR FALR* STEYTLERVILLE FALS* SOMMERVELD FALW LANGEBAANWEG (MIL - UNLI- CENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALF*	LOERIESFONTEIN
FALL* LYDENBURG FALM AFB MAKHADO MILITARY FALQ* EL MIRRADOR FALR* STEYTLERVILLE FALS* SOMMERVELD FALW LANGEBAANWEG (MIL - UNLI- CENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALH*	LOHATLA (ARMY)
FALM AFB MAKHADO MILITARY FALQ* EL MIRRADOR FALR* STEYTLERVILLE FALS* SOMMERVELD FALW LANGEBAANWEG (MIL - UNLI- CENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALL*	LYDENBURG
FALQ* EL MIRRADOR FALR* STEYTLERVILLE FALS* SOMMERVELD FALW LANGEBAANWEG (MIL - UNLI- CENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALM	AFB MAKHADO MILITARY
FALR* STEYTLERVILLE FALS* SOMMERVELD FALW LANGEBAANWEG (MIL - UNLI- CENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALQ*	EL MIRRADOR
FALS* SOMMERVELD FALW LANGEBAANWEG (MIL - UNLI-CENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALR*	STEYTLERVILLE
FALW LANGEBAANWEG (MIL - UNLICENSED) FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALS*	SOMMERVELD
FAMA* MABALINGWE FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FALW	LANGEBAANWEG (MIL - UNLI- CENSED)
FAME* MARION ISLAND FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FAMA*	MABALINGWE
FAMF* MACLEAR FAMH* MUSSINA FAMI* MARBLE HALL	FAME*	MARION ISLAND
FAMH* MUSSINA FAMI* MARBLE HALL	FAMF*	MACLEAR
FAMI* MARBLE HALL	FAMH*	MUSSINA
	FAMI*	MARBLE HALL

2. DECODE	
INDICATOR	LOCATION
FAMK*	MADIKWE GAME RESERVE
FAMP*	MADIMBO
FAMQ*	MONTAGU
FAMR	MARIEPSKOP (SAAF)
FAMY*	MAZZEPA BAY
FAMZ*	MSAULI
FANA*	NONGOMA
FAND*	NGODWANA/SAPPI
FANG*	NGALA
FANI*	NTSIRI
FANO*	NDUNO
FANT*	NYATHI
FANY*	NYLSTROOM
FAOB	OVERBERG
FAOF*	OLIFANTSHOEK
FAOL*	OTHAWA
FAPC*	PAULPIETERSBURG MONDI
FAPD*	POFADDER
FAPJ*	PORT ST JOHNS
FAPL*	PONGOLA
FAPO*	PILGRIMS REST
FAPQ*	PUNDU MARIA
FAPT*	POSTMASBURG
FAPU*	PAARL
FAPV*	PETRUSVILLE
FAPW*	PIETERSRUS
FAPY*	PARYS
FAQB*	PIESANGHOEK
FAQF*	POMFRET
FAQR*	POTGIETERSRUS
FARA*	PETIT
FARF*	RIETFONTEIN
FARM*	RICHMOND
FARZ*	REITZ

Civil Aviation Authority

AMDT 1/25

AIP South Africa

INDICATOR	
FASA*	SANDHURST
FASF*	SOUTHERN AIR COMMANE (SAAF)
FASG*	SCHWEIZER RENEKE
FASK*	SWARTKOP
FASL*	SUTHERLAND
FASM*	SITEKA
FASN*	SENEKAL
FASO*	STEELPOORT
FASP*	SINGITA SABI SAND
FAST*	SOMERSET EAST
FASV*	SILVERMINE (SA NAVY)
FASY*	SYFERFONTEIN
FATB*	THORNY BUSH GAME LODGE
FATC*	TRISTAN DE CUNHA
FATD*	ROCK FIG
FATH*	THOHOYANDOU
FATI*	THABAZIMBI
FATK*	TSITSIKAMA FLY-INN
FATM*	STUTTERHEIM
FATN*	THABA N'CHU
FATR*	TWEE RIVIEREN
FATS*	TACTICAL SUPPORT COMMANE (SAAF)
FAUC*	ULCO
FAUG*	UGIE
FAUR*	UTRECHT
FAVA*	VAALPUTS
FAVB*	VRYBURG
FAVF*	VERBORGENFONTEIN
FAVP*	VANDERBIJLPARK
FAVR*	VREDENDAL
FAVS*	VASTRAP (MIL)
FAVU*	VOLKSRUST
FAVV*	VEREENIGING

2. DECODE	
INDICATOR	LOCATION
FAVW*	VICTORIA WEST
FAVY*	VRYHEID
FAWD*	WOLMARANSTAD
FAWE*	WELGEVONDEN
FAWG*	WATTS LANDING
FAWK	WATERKLOOF (SAAF)
FAWO*	WILLOWMORE
FAWR*	WAVECREST
FAWS*	WESSELBRON
FAWT*	WINTERVELDT MINE
FAWV*	WHITE RIVER
FAYP	YSTERPLAAT (SAAF)
FAZC*	ZULULAND ANTHRACITE COLLERY
FAZG*	SWARTBERG
FAZQ*	STAR
FAZR*	ZEERUST
FAZU*	ZUNEY

AMDT 1/25

GEN 2.4-10 15 JAN 25



ID	STATION NAME	FACILITY	PURPOSE (see Note)
ABV	ALEXANDER BAY	DME	AE
ABV	ALEXANDER BAY	VOR	AE
AGV	AGGENEYS	DME	E
AGV	AGGENEYS	VOR	E
BLV	BRAM FISCHER INTERNATIONAL	DME	A
BLV	BRAM FISCHER INTERNATIONAL	VOR	A
BSI	KING PHALO	ILS GP RWY 11	A
BSI	KING PHALO	ILS LOC RWY 11	A
BSI	KING PHALO	DME RWY 11	A
CDV	CALEDON	DME	E
CDV	CALEDON	DVOR	E
CSV	CERES	DME	E
CSV	CERES	DVOR	E
СТІ	CAPE TOWN INTERNATIONAL	ILS GP RWY 01	A
СТІ	CAPE TOWN INTERNATIONAL	ILS LOC RWY 01	A
CTI	CAPE TOWN INTERNATIONAL	DME	A
CTV	CAPE TOWN INTERNATIONAL	DME	A
CTV	CAPE TOWN INTERNATIONAL	VOR	A
CZV	ZONDERWATER	DME	E
CZV	ZONDERWATER	VOR	E
DPV	WONDERBOOM	DVOR	AE
DPV	WONDERBOOM	DME	AE
ELI	KING PHALO	ILS GP RWY 29	A
ELI	KING PHALO	ILS LOC RWY 29	A
ELI	KING PHALO	DME RWY 29	A
ELV	KING PHALO	DME	A
ELV	KING PHALO	VOR	A
ERV	ELLISRAS	DME	A
ERV	ELLISRAS	VOR	A
GAV	GRASMERE	VOR	E
GEI	GEORGE	ILS GP RWY 11	A
GEI	GEORGE	ILS LOC RWY 11	A

GEN 2.5 LIST OF RADIO NAVIGATION AIDS



ID	STATION NAME	FACILITY	PURPOSE (see Note)
GEI	GEORGE	DME	A
GGI	GEORGE	ILS GP RWY 29	A
GGI	GEORGE	ILS LOC RWY 29	A
GGI	GEORGE	DME	A
GRV	GEORGE	DME	AE
GRV	GEORGE	DVOR	AE
GWV	GREEFSWALD	VOR	E
GYV	GREYTOWN	DME	A
GYV	GREYTOWN	VOR	A
HGV	HEIDELBERG	VOR	E
HMV	HOFMEYER	DVOR	E
HSI	HOEDSPRUIT	ILS GP RWY 18	A
HSI	HOEDSPRUIT	ILS LOC RWY 18	A
HSV	HOEDSPRUIT (MIL)	DME	A
HSV	HOEDSPRUIT (MIL)	VOR	A
JAI	O R TAMBO INTERNATIONAL	ILS GP RWY 21L	A
JAI	O R TAMBO INTERNATIONAL	ILS LOC RWY 21L	A
JBI	O R TAMBO INTERNATIONAL	ILS GP RWY 21R	A
JBI	O R TAMBO INTERNATIONAL	ILS LOC RWY 21R	A
JNI	O R TAMBO INTERNATIONAL	ILS GP RWY 03R	A
JNI	O R TAMBO INTERNATIONAL	ILS LOC RWY 03R	A
JSI	O R TAMBO INTERNATIONAL	ILS GP RWY 03L	A
JSI	O R TAMBO INTERNATIONAL	ILS LOC RWY 03L	A
JSV	O R TAMBO INTERNATIONAL	DME	A
JSV	O R TAMBO INTERNATIONAL	DVOR	A
KSI	CAPE TOWN INTERNATIONAL	ILS GP RWY 19	A
KSI	CAPE TOWN INTERNATIONAL	ILS LOC RWY 19	A
KSI	CAPE TOWN INTERNATIONAL	DME	A
KYV	KIMBERLEY	DME	AE
KYV	KIMBERLEY	VOR	AE
LAI	LANSERIA	ILS LOC RWY 07	A
ΙΔΙ		DME	Δ

LANSERIA

LIV

Civil Aviation Authority

AE

DME

GEN 2.5-2 15 OCT 22



ID	STATION NAME	FACILITY	PURPOSE (see Note)
LIV	LANSERIA	DVOR	AE
LTV	MAKHADO (MIL)	DME	A
LTV	MAKHADO (MIL)	VOR	A
LWI	LANGEBAANWEG (MIL)	ILS GP RWY 20L	A
LWI	LANGEBAANWEG (MIL)	ILS LOC RWY 20L	A
LWV	LANGEBAANWEG (MIL)	DME	A
LWV	LANGEBAANWEG (MIL)	VOR	A
LYV	LADYSMITH	DME	AE
LYV	LADYSMITH	DVOR	AE
MM∨	GEORGE DICK MONTSHIOA	DME	A
MM∨	GEORGE DICK MONTSHIOA	VOR	A
NVV	NIEUWOUDTVILLE	DVOR	E
OBI	OVERBERG - TEST FLYING & DEVELOPING CENTRE MIL - LICENSED	ILS GP RWY 35	A
OBI	OVERBERG - TEST FLYING & DEVELOPING CENTRE MIL - UNLICENSED	ILS LOC RWY 35	A
OBV	OVERBERG (MIL)	DME	A
OBV	OVERBERG (MIL)	VOR	A
PDI	CHIEF DAWID STUURMAN INTERNATIONAL	ILS GP RWY 26	A
PDI	CHIEF DAWID STUURMAN INTERNATIONAL	ILS LOC RWY 26	A
PEI	CHIEF DAWID STUURMAN INTERNATIONAL	ILS GP RWY 08	A
PEI	CHIEF DAWID STUURMAN INTERNATIONAL	ILS LOC RWY 08	A
PEV	CHIEF DAWID STUURMAN INTERNATIONAL	DME	AE
PEV	CHIEF DAWID STUURMAN INTERNATIONAL	VOR	AE
PHV	PHALABORWA	VOR	AE
PJV	PORT ST JOHNS	DVOR	E
PKI	KRUGER MPUMALANGA INTERNATIONAL	DME RWY 05	A
PKI	KRUGER MPUMALANGA INTERNATIONAL	ILS GP RWY 05	A
PKI	KRUGER MPUMALANGA INTERNATIONAL	ILS LOC RWY 05	A
PKV	KRUGER MPUMALANGA INTERNATIONAL	DVOR	AE
PMV	PIETERMARITZBURG	DME	AE
PMV	PIETERMARITZBURG	VOR	AE
PNV	PILANESBERG	DME	A
PNV	PILANESBERG	DVOR	A
PPI	POLOKWANE INTERNATIONAL	ILS LOC RWY 05	А



GEN 2.5-4 15 JAN 23

ID	STATION NAME	FACILITY	PURPOSE (see Note)
PPI	POLOKWANE INTERNATIONAL	ILS GP RWY 05	A
PPI	POLOKWANE INTERNATIONAL	DME	A
PPV	POLOKWANE INTERNATIONAL	DME	A
PPV	POLOKWANE INTERNATIONAL	VOR	A
PVV	PETRUSVILLE	VOR	E
RAV	RAND	DME	A
RAV	RAND	VOR	A
RBV	RICHARDS BAY	DME	AE
RBV	RICHARDS BAY	VOR	AE
SLV	SUTHERLAND	VOR	E
SSV	SISHEN	DME	E
SSV	SISHEN	VOR	E
STV	STANDERTON	VOR	E
SVV	SOMERSVELD	VOR	A
TGI	KING SHAKA INTERNATIONAL	DME RWY 24	A
TGI	KING SHAKA INTERNATIONAL	ILS GP RWY 24	A
TGI	KING SHAKA INTERNATIONAL	ILS LOC RWY 24	A
TGV	KING SHAKA INTERNATIONAL	DME	A
TGV	KING SHAKA INTERNATIONAL	DVOR	AE
TNI	KING SHAKA INTERNATIONAL	DME RWY 06	A
TNI	KING SHAKA INTERNATIONAL	ILS GP RWY 06	A
TNI	KING SHAKA INTERNATIONAL	ILS LOC RWY 06	A
UL	ULUNDI	DME	A
UPV	UPINGTON	DME	AE
UPV	UPINGTON	VOR	AE
VWV	VICTORIA WEST	VOR	E
WIV	WITBANK	VOR	AE
WKI	WATERKLOOF AFB (MIL - UNLICENSED)	ILS LOC RWY 01	A
WKV	WATERKLOOF (MIL)	DME	A
WKV	WATERKLOOF (MIL)	VOR	A
WMV	WELKOM	DME	AE
WMV	WELKOM	VOR	AE
WRV	WARDEN	VOR	E



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	15.	JAN	23

STATION NAME	FACILITY	ID	PURPOSE
			(see Note)
ALEXANDER BAY	DME	ABV	AE
ALEXANDER BAY	VOR	ABV	AE
AGGENEYS	DME	AGV	E
AGGENEYS	VOR	AGV	E
BRAM FISCHER INTERNATIONAL	DME	BLV	A
BRAM FISCHER INTERNATIONAL	VOR	BLV	A
CALEDON	DME	CDV	E
CALEDON	DVOR	CDV	E
CAPE TOWN INTERNATIONAL	ILS GP RWY 01	CTI	A
CAPE TOWN INTERNATIONAL	ILS LOC RWY 01	CTI	A
CAPE TOWN INTERNATIONAL	DME	CTI	A
CAPE TOWN INTERNATIONAL	DME	CTV	A
CAPE TOWN INTERNATIONAL	VOR	CTV	A
CAPE TOWN INTERNATIONAL	ILS GP RWY 19	KSI	A
CAPE TOWN INTERNATIONAL	ILS LOC RWY 19	KSI	A
CAPE TOWN INTERNATIONAL	DME	KSI	A
CERES	DME	CSV	E
CERES	DVOR	CSV	E
KING PHALO	ILS GP RWY 11	BSI	A
KING PHALO	ILS LOC RWY 11	BSI	A
KING PHALO	DME RWY 11	BSI	A
KING PHALO	ILS GP RWY 29	ELI	A
KING PHALO	ILS LOC RWY 29	ELI	A
KING PHALO	DME RWY 29	ELI	A
KING PHALO	DME	ELV	A
KING PHALO	VOR	ELV	A
ELLISRAS	DME	ERV	A
ELLISRAS	VOR	ERV	A
GEORGE	ILS GP RWY 11	GEI	A
GEORGE	ILS LOC RWY 11	GEI	A
GEORGE	DME	GEI	A
GEORGE	ILS GP RWY 29	GGI	A
GEORGE	ILS LOC RWY 29	GGI	A
GEORGE	DME	GGI	A

AMDT 1/23

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STATION NAME	FACILITY	ID	PURPOSE (see Note)
GEORGE	DME	GRV	AE
GEORGE	DVOR	GRV	AE
GEORGE DICK MONTSHIOA	DME	MMV	A
GEORGE DICK MONTSHIOA	VOR	MMV	A
GRASMERE	VOR	GAV	E
GREEFSWALD	VOR	GWV	E
GREYTOWN	DME	GYV	A
GREYTOWN	VOR	GYV	A
HEIDELBERG	VOR	HGV	E
HOEDSPRUIT	ILS GP RWY 18	HSI	A
HOEDSPRUIT	ILS LOC RWY 18	HSI	A
HOEDSPRUIT (MIL)	DME	HSV	A
HOEDSPRUIT (MIL)	VOR	HSV	A
HOFMEYER	DVOR	HMV	E
KIMBERLEY	DME	KYV	AE
KIMBERLEY	VOR	KYV	AE
KING SHAKA INTERNATIONAL	DME RWY 24	TGI	A
KING SHAKA INTERNATIONAL	ILS GP RWY 24	TGI	A
KING SHAKA INTERNATIONAL	ILS LOC RWY 24	TGI	A
KING SHAKA INTERNATIONAL	DME	TGV	A
KING SHAKA INTERNATIONAL	DVOR	TGV	AE
KING SHAKA INTERNATIONAL	DME RWY 06	TNI	A
KING SHAKA INTERNATIONAL	ILS GP RWY 06	TNI	A
KING SHAKA INTERNATIONAL	ILS LOC RWY 06	TNI	A
KRUGER MPUMALANGA INTERNATIONAL	DME RWY 05	PKI	A
KRUGER MPUMALANGA INTERNATIONAL	ILS GP RWY 05	PKI	A
KRUGER MPUMALANGA INTERNATIONAL	ILS LOC RWY 05	PKI	A
KRUGER MPUMALANGA INTERNATIONAL	DVOR	PKV	AE
LADYSMITH	DME	LYV	AE
LADYSMITH	DVOR	LYV	AE
LANGEBAANWEG (MIL)	ILS GP RWY 20L	LWI	A
LANGEBAANWEG (MIL)	ILS LOC RWY 20L	LWI	А
LANGEBAANWEG (MIL)	DME	LWV	A
LANGEBAANWEG (MIL)	VOR	LWV	A

AMDT 1/23



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STATION NAME	FACILITY	ID	PURPOSE
			(see Note)
LANSERIA	DME	LIV	A
LANSERIA	DVOR	LIV	A
LANSERIA	DME	LAI	A
LANSERIA	ILS LOC RWY 07	LAI	A
MAKHADO (MIL)	DME	LTV	A
MAKHADO (MIL)	VOR	LTV	A
NIEUWOUDTVILLE	DVOR	NVV	E
O R TAMBO INTERNATIONAL	ILS GP RWY 21L	JAI	A
O R TAMBO INTERNATIONAL	ILS LOC RWY 21L	JAI	A
O R TAMBO INTERNATIONAL	ILS GP RWY 21R	JBI	A
O R TAMBO INTERNATIONAL	ILS LOC RWY 21R	JBI	A
O R TAMBO INTERNATIONAL	ILS GP RWY 03R	JNI	A
O R TAMBO INTERNATIONAL	ILS LOC RWY 03R	JNI	A
O R TAMBO INTERNATIONAL	ILS GP RWY 03L	JSI	A
O R TAMBO INTERNATIONAL	ILS LOC RWY 03L	JSI	A
O R TAMBO INTERNATIONAL	DME	JSV	A
O R TAMBO INTERNATIONAL	DVOR	JSV	A
OVERBERG (MIL)	DME	OBV	A
OVERBERG (MIL)	VOR	OBV	A
OVERBERG - TEST FLYING & DEVELOPING CENTRE MIL - UNLICENSED	ILS GP RWY 35	OBI	A
OVERBERG - TEST FLYING & DEVELOPING CENTRE MIL - UNLICENSED	ILS LOC RWY 35	OBI	A
PETRUSVILLE	VOR	PVV	E
PHALABORWA	VOR	PHV	AE
PIETERMARITZBURG	DME	PMV	AE
PIETERMARITZBURG	VOR	PMV	AE
PILANESBERG	DME	PNV	A
PILANESBERG	DVOR	PNV	A
CHIEF DAWID STUURMAN INTERNATIONAL	ILS GP RWY 26	PDI	A
CHIEF DAWID STUURMAN INTERNATIONAL	ILS LOC RWY 26	PDI	A
CHIEF DAWID STUURMAN INTERNATIONAL	ILS GP RWY 08	PEI	A
CHIEF DAWID STUURMAN INTERNATIONAL	ILS LOC RWY 08	PEI	А
CHIEF DAWID STUURMAN INTERNATIONAL	DME	PEV	AE
CHIEF DAWID STUURMAN INTERNATIONAL	VOR	PEV	AE

AMDT 2/23

GEN 2.5-	8
15 APR 23	



STATION NAME	FACILITY	ID	PURPOSE (see Note)
PORT ST JOHNS	DVOR	PJV	E
POLOKWANE INTERNATIONAL	ILS LOC RWY 05	PPI	A
POLOKWANE INTERNATIONAL	ILS GP RWY 05	PPI	A
POLOKWANE INTERNATIONAL	DME	PPI	A
POLOKWANE INTERNATIONAL	DME	PPV	A
POLOKWANE INTERNATIONAL	VOR	PPV	A
RAND	DME	RAV	A
RAND	VOR	RAV	A
RICHARDS BAY	DME	RBV	AE
RICHARDS BAY	VOR	RBV	AE
SISHEN	DME	SSV	E
SISHEN	VOR	SSV	E
SOMERSVELD	VOR	SVV	A
STANDERTON	VOR	STV	E
SUTHERLAND	VOR	SLV	E
ULUNDI	DME	UL	A
UPINGTON	DME	UPV	AE
UPINGTON	VOR	UPV	AE
VICTORIA WEST	VOR	VWV	E
WARDEN	VOR	WRV	E
WATERKLOOF AFB (MIL - UNLICENSED)	ILS LOC RWY 01	WKI	A
WATERKLOOF (MIL)	DME	WKV	A
WATERKLOOF (MIL)	VOR	WKV	A
WELKOM	DME	WMV	AE
WELKOM	VOR	WMV	AE
WITBANK	VOR	WIV	AE
WONDERBOOM	DVOR	DPV	AE
WONDERBOOM	DME	DPV	AE
ZONDERWATER	DME	CZV	E
ZONDERWATER	VOR	CZV	E

A = Aerodrome

E = En-route

AE = Dual purpose



GEN 2.6-1 15 JUL 17

NM to KM 1NM = 1.852KM		KM to NM 1KM = 0.5399NM		FT 1FT = (FT to M 1FT = 0.3048M		M to FT 1M = 3.2808FT	
NM	KM	КМ	NM	FT	м	м	FT	
0.1	0.185	0.1	0.05	1	0.305	1	3.28	
0.2	0.370	0.2	0.11	2	0.610	2	6.56	
0.3	0.556	0.3	0.16	3	0.914	3	9.84	
0.4	0.741	0.4	0.22	4	1.219	4	13.12	
0.5	0.926	0.5	0.27	5	1.524	5	16.40	
0.6	1.111	0.6	0.32	6	1.829	6	19.69	
0.7	1.296	0.7	0.38	7	2.134	7	22.97	
0.8	1.482	0.8	0.43	8	2.438	8	26.25	
0.9	1.667	0.9	0.49	9	2.743	9	29.53	
1	1.852	1	0.54	10	3.048	10	32.81	
2	3.704	2	1.08	50	15.240	50	164.04	
3	5.556	3	1.62	100	30.480	100	328.08	
4	7.408	4	2.16	500	152.400	500	1640.42	
5	9.260	5	2.70	1000	304.800	1000	3280.84	
6	11.112	6	3.24	5000	1524.000	5000	16404.20	
7	12.964	7	3.78	10000	3048.000			
8	14.816	8	4.32					
9	16.668	9	4.86					
10	18.520	10	5.40					
50	92.600	50	27.00					
100	185.200	100	54.00					
500	926.000	500	269.98					

GEN 2.6 CONVERSIONS TABLES CONVERSION OF UNITS OF MEASUREMENT

Decimal Minutes to Seconds		Seconds to Decimal Minutes		
Decimal Minutes	Seconds	Seconds	Decimal Minutes	
0.1	6	1	0.0167	
0.2	12	5	0.0833	
0.3	18	10	0.167	
0.4	24	15	0.25	
0.5	30	20	0.333	
0.6	36	25	0.417	
0.7	42	30	0.5	
0.8	48	35	0.583	



GEN 2.6-2 15 JUL 17

Decimal Minutes to Seconds		Seconds to Decimal Minutes		
Decimal Minutes	Seconds	Seconds Seconds Decimal		
0.9	54	40	0.666	
1	60	45	0.75	
		50	0.833	
		55	0.916	



GEN 2.7-1 15 JUL 17

GEN 2.7 SUNRISE/ SUNSET TABLES

All times indicated are UTC.

Bloemfontein							
Month	Date	Sunrise	Sunset	Month	Date	Sunrise	Sunset
	01	0321	1717		02	0509	1529
	08	0325	1718		09	0508	1532
JAN	15	0330	1718	JUL	16	0507	1535
	22	0336	1716		23	0504	1539
	29	0343	1714		30	0500	1543
	05	0349	1710		06	0455	1546
EED	12	0354	1705		13	0449	1550
FED	19	0359	1658	AUG	20	0442	1554
	26	0405	1651		27	0436	1557
	05	0409	1644		03	0428	1601
МАВ	12	0413	1637	SEP	10	0420	1605
MAR	19	0417	1629		17	0411	1608
	26	0421	1619		24	0403	1612
	02	0426	1612	ост	01	0356	1616
	09	0428	1605		08	0347	1619
APR	16	0433	1557		15	0339	1624
	23	0437	1549		22	0331	1628
	30	0441	1544		29	0326	1633
	07	0445	1537		05	0320	1638
MAX	14	0450	1532	NOV	12	0315	1644
MAT	21	0454	1529	NOV	19	0311	1650
	28	0458	1526		26	0309	1655
	04	0501	1524		03	0309	1700
	11	0504	1524		10	0310	1705
JUN	18	0506	1525	DEC	17	0312	1710
	25	0508	1527		24	0315	1714
	-				31	0320	1716

GEN 2.7-2 15 JUL 17



Cape Town							
Month	Date	Sunrise	Sunset	Month	Date	Sunrise	Sunset
JAN	01	0339	1801	JUL	02	0552	1548
	08	0344	1801		09	0551	1551
	15	0350	1800		16	0549	1555
	22	0357	1757		23	0545	1600
	29	0404	1755		30	0540	1604
FEB	05	0311	1749	AUG	06	0535	1609
	12	0418	1742		13	0528	1615
	19	0425	1734		20	0520	1619
	26	0431	1727		27	0512	1624
MAR	05	0437	1718	SEP	03	0503	1629
	12	0442	1710		10	0453	1633
	19	0447	1701		17	0443	1638
	26	0452	1649		24	0434	1644
APR	02	0458	1640	ост	01	0425	1648
	09	0503	1632		08	0416	1653
	16	0509	1623		15	0406	1659
	23	0514	1615		22	0357	1704
	30	0519	1608		29	0350	1710
MAY	07	0525	1600	- NOV	05	0343	1717
	14	0530	1554		12	0337	1724
	21	0535	1550		19	0333	1731
	28	0539	1547		26	0330	1737
JUN	04	0543	1544	DEC	03	0328	1743
	11	0547	1544		10	0328	1749
	18	0550	1544		17	0330	1754
	25	0551	1545		24	0333	1758
		•		1	31	0338	1800


GEN 2.7-3 15 JUL 17

	Durban							
Month	Date	Sunrise	Sunset	Month	Date	Sunrise	Sunset	
	01	0259	1701		02	0452	1507	
	08	0303	1702		09	0452	1510	
JAN	15	0309	1701	JUL	16	0450	1514	
	22	0315	1659		23	0447	1518	
	29	0322	1657		30	0443	1522	
	05	0328	1652		06	0438	1526	
	12	0333	1647		13	0432	1530	
FED	19	0339	1640	AUG	20	0425	1534	
	26	0345	1633		27	0418	1537	
	05	0349	1626		03	0410	1542	
MAD	12	0353	1618	050	10	0401	1545	
MAR	19	0358	1610	SEP	17	0352	1549	
	26	0402	1600		24	0344	1553	
	02	0407	1552		01	0336	1557	
	09	0410	1545		08	0328	1601	
APR	16	0415	1537	OCT	15	0319	1606	
	23	0419	1529		22	0311	1610	
	30	0424	1523		29	0305	1616	
	07	0428	1516		05	0249	1621	
MAN	14	0433	1511	NOV	12	0254	1627	
MAT	21	0437	1508	NOV	19	0250	1633	
	28	0441	1505		26	0248	1638	
	04	0444	1503		03	0247	1644	
	11	0448	1503		10	0248	1649	
JUN	18	0450	1503	DEC	17	0250	1654	
	25	0451	1505		24	0253	1658	
					31	0258	1700	

GEN 2.7-4 15 JUL 17



	Johannesburg								
Month	Date	Sunrise	Sunset	Month	Date	Sunrise	Sunset		
	01	0320	1704		02	0456	1528		
	08	0324	1705		09	0455	1531		
JAN	15	0329	1705	JUL	16	0454	1534		
	22	0335	1703		23	0451	1538		
	29	0341	1701		30	0447	1541		
	05	0346	1658		06	0443	1544		
EED	12	0351	1653		13	0438	1547		
FED	19	0355	1648	AUG	20	0432	1551		
	26	0400	1642		27	0426	1553		
	05	0403	1635		03	0419	1556		
MAD	12	0407	1628	050	10	0411	1559		
MAR	19	0411	1621	SEP	17	0404	1602		
	26	0413	1613		24	0356	1605		
	02	0417	1608		01	0349	1607		
	09	0420	1559		08	0342	1611		
APR	16	0424	1552	ОСТ	15	0335	1615		
	23	0427	1545		22	0327	1618		
	30	0430	1540		29	0322	1622		
	07	0434	1535		05	0317	1627		
MAX	14	0438	1530	NOV	12	0313	1632		
IVIAT	21	0442	1528	NOV	19	0310	1637		
	28	0445	1525		26	0308	1642		
	04	0448	1523		03	0308	1647		
ILINI	11	0451	1523	1	10	0309	1652		
JUN	18	0453	1524	DEC	17	0311	1657		
	25	0455	1526	1	24	0314	1704		
		•		1	31	0319	1703		



			Port El	izabeth			
Month	Date	Sunrise	Sunset	Month	Date	Sunrise	Sunset
	01	0311	1733		02	0524	1520
	08	0316	1733		09	0523	1523
JAN	15	0322	1732	JUL	16	0521	1527
	22	0329	1729		23	0517	1532
	29	0326	1727		30	0512	1536
	05	0343	1721		06	0507	1541
EED	12	0350	1714		13	0500	1547
FED	19	0357	1706	AUG	20	0452	1551
	26	0403	1659		27	0444	1556
	05	0409	1650		03	0435	1601
МАР	12	0414	1642	SED	10	0425	1605
WAR	19	0419	1633	SEP	17	0415	1610
	26	0424	1621		24	0406	1616
	02	0430	1612		01	0357	1620
	09	0435	1604		08	0348	1625
APR	16	0441	1555	OCT	15	0338	1631
	23	0446	1547		22	0329	1636
	30	0451	1540		29	0322	1642
	07	0457	1532		05	0315	1649
	14	0502	1526	NOV	12	0309	1656
MAT	21	0507	1522	NOV	19	0305	1703
	28	0511	1519		26	0302	1709
	04	0515	1516		03	0300	1715
II INI	11	0519	1516		10	0300	1721
JUN	18	0522	1516	DEC	17	0302	1726
	25	0523	1517		24	0305	1730
					31	0310	1732

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GEN 3.1-1 15 JAN 23

GEN 3 SERVICES GEN 3.1 AERONAUTICAL INFORMATION SERVICES

1 Responsible service

1.1 The Aeronautical Information Service, which forms part of the Department Aviation Infrastructure of the South African Civil Aviation Authority, ensures the flow of information necessary for the safety, regularity and efficiency of international and national air navigation within the area of its responsibility as indicated under para 2 below.

1.2 AIS Headquarters:

South African Civil Aviation Authority Aeronautical Information Services Private Bag x 73 Halfway House, 1685 Republic of South Africa TEL: +2711 545 1000 Telefax: +2711 545 1465 AFS Address: FAHQYNYX Website: www.caa.co.za

1.3 International NOTAM Office (NOF)

International NOTAM Office A.T.N.S. Private Bag X01 Bonaero Park 1622 Republic Of South Africa Aeronautical Telegraphic Address: FAJNYNYX Flight Plans TEL: +2711 928 6518 (international calls) 0860 359 669 (national call share number) NOTAM TEL: +2711 928 6592 E-mail: jsnotam@atns.co.za Website: atns.co.za



GEN 3.1-2 15 JAN 23

2 Area of responsibility

The Aeronautical Information Services (AIS) is responsible for the collection and dissemination of information for the entire area which coincides with the Cape Town, Johannesburg and Johannesburg Oceanic Flight Information Regions (FIRs). The

area excludes Lesotho and Eswatini as these states publish their own AIP and NOTAM.

3 Aeronautical publications

3.1 Aeronautical information is published in the form of an Aeronautical Information Product, and consists of the following elements.

- Aeronautical Information Publication (AIP) including amendment service;
- Supplements to the AIP;
- Notice to airmen (NOTAM) and pre-flight information bulletins (PIB);
- Aeronautical Information Circular (AIC).
- Checklists and list of valid NOTAM

AIP, AIP Amendments and AIP supplements shall be made available by most expeditious means.

3.2 Aeronautical Information Publication (AIP)

The publication of an AIP is intended primarily to satisfy international requirements for the exchange of aeronautical information of a lasting character and is essential to Air Navigation.

The AIP constitutes the basic information source for permanent information and long duration temporary changes.

The South African AIP is published in three parts GEN, ENR and AD.

The AIP purchase price is R750-00 (excluding postage), which includes the amendment service for the current year.

Each AIP shall not duplicate information within itself or from other sources.

3.3 AIP Amendment service (AIP AMDT)

Permanent changes to the AIP shall be published as AIP Amendments.

Amendments to AIP shall be issued every 3 months at the following predetermined intervals:-

15 January, 15 April, 15 July, 15 October

When an AIP amendment will not be published at the established interval, a NIL notification shall be originated and distributed by means of the Summary of NOTAM in force (NIF).

Each AIP AMDT shall be allocated a serial number, which shall be consecutive and based on the calendar year. The year, indicated by two digits, is a part of the serial number of the amendment, e.g. AIP AMDT 1/96.



New or revised information contained in the AIP replacement pages will have an annotation (a thick vertical bar) next to the appropriate line. Should a page be reprinted because it was blank or backed a page containing changes, but does not carry any changes in respect to the previous edition, it shall not contain any highlighting symbols (vertical bar).

A checklist of AIP pages containing page number/chart title and the publication or effective date (day, month by name and year) of the information is reissued with each amendment and is an integral part of the AIP.

The AIP amendment service will cost R540-00 per year.

3.4 AIP Supplement Service (AIP SUP)

The purpose of the AIP SUP is to bring to the attention of the user any temporary changes of long duration (three months or longer) and/or information of operational significance containing extensive text or graphics, which affect one or more parts of the AIP.

Operationally significant changes shall be published under the AIRAC procedure (refer to paragraph 4).

AIP SUP shall be numbered consecutively based on a calendar year.

The period of validity will normally be given in the AIP SUP itself.

Whenever an AIP SUP is issued to replace a NOTAM, a reference to the serial number of the relevant NOTAM shall be included.

AIP SUP can be cancelled either by an AIP AMDT, AIP SUP or by NOTAM.

A checklist of valid AIP SUP shall be issued at intervals of not more than one month. Such information shall be issued through the monthly summary of NOTAM in force (NIF).

3.5 AIRAC AIP Supplement (AIRAC AIP SUP)

The purpose of an AIP SUP is to bring to the attention of the user any temporary changes of long duration (three months or longer) and/or information of operational significance containing extensive text or graphics, which affect one or more parts of the AIP. Operationally significant changes shall be published in accordance with AIRAC procedures and shall be clearly identified by the acronym - AIRAC.

The AIRAC AIP SUP shall be published at least 56 days in advance of the effective date with the objective of reaching recipients at least 28 days in advance of the effective date.

Effective dates will be published in accordance with the predetermined internationally agreed schedule of effective dates based on an interval of 28 days.

Information notified by means of the AIRAC procedure shall not be changed for at least 28 days after the indicated effective date, unless the circumstance notified is of a temporary nature and would not persist for the full period.

GEN 3.1-4 15 JAN 22



When information has not been submitted for publication at the AIRAC date a NIL notification shall be originated and distributed by the monthly printed Plain Language Summary of NIF

3.6 Notice to airmen (NOTAM)

A NOTAM shall be originated and issued concerning the following information:

A NOTAM is a notice distributed by means of the Aeronautical Fixed Service (AFS) containing information concerning the establishment, withdrawal and significant changes in operational capability of radio navigation and air-ground communication services, the timely knowledge of which is essential to personnel concerned with flight operations.

A NOTAM shall be originated and issued promptly whenever the information to be disseminated is of a temporary nature and of short duration or when operationally significant permanent changes, or temporary changes of long duration are made at short notice, except for extensive text or graphics.

NOTAM are originated and issued for South Africa for the entire area which coincides with the Cape Town, Johannesburg and Johannesburg Oceanic Flight Information Regions (FIRs). The area excludes, Lesotho and Swaziland as these States publish NOTAM.

NOTAM are distributed in six series identified by A, B, C, D, E and F:

Each international NOTAM office shall be connected, through the AFS, to the following points within the territory for which it provides service:

a) area control centres and flight information centres;

b) aerodromes/heliports at which an information service is established in accordance with Chapter 8.

Series A: NOTAM containing information of concern to long or medium-range flights, and given selected international distribution.

Series B: NOTAM containing full information on all aerodromes, facilities and procedures available for use in international civil aviation and given international distribution to adjacent States only.

Series C: NOTAM containing information of concern to aircraft other than those engaged in international civil aviation and given national distribution only.

Series D: NOTAM containing information of concern for military airports only and given selected international distribution.

Series E: NOTAM containing information of concern for heliports only and given international distribution to adjacent States only.

Series F: NOTAM containing information of an administrative nature (e.g. Hand amendments, Publications, Trigger NOTAM); and given selected international distribution.



When an AIP AMDT or an AIP SUP is published in accordance with AIRAC procedures, a TRIGGER NOTAM shall be originated giving a brief description of the contents, the effective date, and the reference number to the AIP AMDT or AIP SUP.

The basic purpose of a NOTAM is the dissemination of information in advance of the event to which it relates, except in the case of unserviceability which cannot be foreseen.

A NOTAM checklist shall be issued over the AFS, for each month on the first day of the following month, containing a numerical list of all NOTAM currently in force and referring to the latest AIP AMDT, AIP SUP and AIC issued.

Each NOTAM shall be transmitted as a single telecommunication message.

A NOTAM containing permanent or temporary information of long duration shall carry appropriate AIP or AIP Supplement references.

A monthly Checklist of Aeronautical Information includes a reference of the latest AIP AMDT, checklist of AIP SUP and AIC issued, shall be published on the Civil Aviation Authority website at www.caa.co.za

Pre-flight Information Bulletins (PIB), which contain recapitulation of current NOTAM and other information of urgent character for the operator/flight crews, are available from the Aeronautical Management Services Centre. The extent of the information contained in the PIB is indicated under paragraph 5 of this sub-section.

3.7 Aeronautical Information Circular (AIC)

An AIC is a notice containing information that does not qualify for the origination of a NOTAM or for inclusion into the AIP, but which relates to flight safety, air navigation, technical, administrative or legislative matters.

An AIC shall be issued whenever it is necessary to promulgate the following:

- A long-term forecast of any major change in legislation, regulations, procedures or facilities.
- Information of a purely explanatory or advisory nature liable to affect flight safety.
- Information or notification of an explanatory or advisory nature concerning technical, legislative or administrative matters.

AIC's are classified into the following subjects - General, Operation of Aircraft, Personnel Licensing, Air Navigation Services, Aerodromes and Airworthiness.

Serial numbers will be allocated which shall be consecutive and based on the calendar year. E.g. 001/2014, 002/2014 etc.





Series Subject
A - General
B - Operation of Aircraft
C - Personnel Licensing
D - Air Navigation Services
E - Aerodromes
F - Airworthiness

Further sub-divisions shall also be used e.g.

Series B - Operation of Aircraft	General
Series B - Operation of Aircraft	Safety
Series B - Operation of Aircraft	Regulation
Series B - Operation of Aircraft	Accidents and Incidents etc

The date of issue will appear on each AIC.

A check list of AIC (AIC 10.2) currently in force shall be available from the CAA website at www.caa.co.za under Aeronautical Information.

4 AIRAC System

4.1 In order to control and regulate the operationally significant changes requiring amendments to charts, route manuals e.t.c., such changes, whenever possible, will be issued on predetermined dates according to the AIRAC SYSTEM. This type of information will be published as an AIRAC AIP SUP.

4.2 The table below indicates AIRAC effective dates for the coming years. AIRAC information will be issued so that the information will be received by the user not later than 28 days, and for major changes not later than 56 days, before the effective date. At AIRAC effective date, a trigger NOTAM will be issued giving a brief description of the contents, effective date and reference number of the AIP AMDT or AIRAC AIP SUP that will become effective on that date. Trigger NOTAM will remain in force as a reminder in the PIB until the new checklist/summary is issued.

If no information was submitted for publication at the AIRAC date, a NIL notification will be issued by NOTAM not later than one AIRAC cycle before the AIRAC effective date concerned.



4.3 Schedule of AIRAC effective dates

2023	2024	2025	2026	2027	2028
26 January	25 January	23 January	22 January	21 January	20 January
23 February	22 February	20 February	19 February	18 February	17 February
23 March	21 March	20 March	19 March	18 March	16 March
20 April	18 April	17 April	16 April	15 April	13 April
18 May	16 May	15 May	14 May	13 May	11 May
15 June	13 June	12 June	11 June	10 June	08 June
13 July	11 July	10 July	09 July	08 July	06 July
10 August	08 August	07 August	06 August	05 August	03 August
07 September	05 September	04 September	03 September	02 September	31 August
05 October	03 October	02 October	01 October	30 September	28 September
02 November	31 October	30 October	29 October	28 October	26 October
30 November	28 November	27 November	26 November	25 November	23 November
28 December	26 December	25 December	24 December	23 December	21 December

5 Pre-Flight Information

For any aerodrome/heliport used for international air operations, aeronautical information relative to the route stages originating at the aerodrome/heliport shall be made available to flight operations personnel, including flight crews and services responsible for pre-flight information.

Additional current information relating to the aerodrome of departure shall be provided concerning the following:

Failure, irregular operation and changes in the operational status of radio navigation services, VHF aeromobile channels, RVR observing system and secondary power supply.

NOTAM are important because they communicate important flight and safety information to pilots and other personnel who may need them. Because they're delivered in a timely manner, it's important for pilots to be aware of the different NOTAM and to react to the notices immediately. Conducting effective briefings is an essential part of flight preparation. Without proper preparation, a crew will not have the necessary situational awareness to fly at maximum effectiveness and safety.

It is therefore the responsibility of the pilot/flight crews to obtain the latest NOTAM information and conduct a thorough briefing on the latest NOTAM prior to their flight thus ensuring that all crew members operating the aircraft and responsible for the safe conduct of a flight are aware of the most important parameters.



6 Pre-Flight Information Service at aerodromes/heliports.

GEN 3.1-8

15 JAN 24

Pre-flight information service is available through one of the following means: The AIM Service Centre Hours of service: MON-SUN 24HR Contact details: +2711 928 6518 (international calls) 0860 359 669 (national call share number) File2Fly Internet self-briefing service Hours of Service: MON-SUN 24HR Contact details: https://file2fly.atns.co.za

AIRPORT	COVERAGE
O R Tambo International Airport.	Republic of South Africa, Botswana, Lesotho, Swaziland, Mozambique, Mauritius, Zambia, Malawi, Namibia, Algeria, Ghana, Tunisia, Belgium, Germany, Finland, United Kingdom, Netherlands, Sweden, Congo, Madagascar, Cameroon, Gabon, Central African Republic, Equatorial Guinea, Angola, Seychelles, Zimbabwe, Democratic Republic of Congo, Morocco, Senegal, Burkina Faso, Cote D'ivoire, Niger, Mali, Guinea-Bissau, Mauritania, Cape Verde, Ethiopia, Burundi, Somalia, Egypt, Eritrea, Kenya, Libya, Sudan, United Republic of Tanzania, Uganda, United States, Spain, Canary Islands, Gibraltar, France, Greece, Italy, Albania, Israel, Malta, Austria, Switzerland, Republic of Moldova, Yugoslav Republic of Macedonia, Honduras, Gautemala, Nicaragua, Costa Rica, El Salvador, Afghanis tan, Bahrain, Saudi Arabia, Iran, Jordan, Kuwait, Lebanon, United Arab Emirates, Oman, Pakistan, Iraq, Syrian Arab Republic, China, Japan, Argentina, Brazil, Sri Lanka, India, Hong Kong, Maldives, Malaysia, Singapore, Australia, Macao, Vietnam, Portugal, Denmark, Nigeria, Poland, Russia.

Daily NOTAM Summaries and Pre-flight Information Bulletins (PIB) are available from the AIM Service Centre.

A pre-flight information bulletin and NOTAM Summaries can be distributed by e-mail, or AFTN.

Post Flight Information Form, see (AIC 004/2018), for post-flight annotation by flight crews of information concerning the state, operation and reliability of air navigation facilities, are available on the ATNS website, www.atns.co.za, under the Post Flight Report on the AIM sub-menu.



GEN 3.2-1 15 JAN 24

GEN 3.2 AERONAUTICAL CHARTS

1 Responsible service(s)

1.1 The Civil Aviation Authity of South Africa provides a wide range of aeronautical charts for use by all types of civil aviation. The Aeronautical Information Service produces the charts which are part of the AIP.

1.2 The World aeronautical Chart (WAC) series ICAO 1: 1000 000 and ICAO 1:500 000 are compiled by the Department: Rural development and Land Reform, Chief Directorate: Nationale Geo-spatial Information.

1.3 Charts, suitable for pre-flight planning and briefing. selected from those listed In the ICAO Aeronautical Chart Catalogue (DOC 7101). are available for reference at aerodrome AIS units. (Their addresses can be found under para. 3 below.) The charts are produced in accordance with the provisions contained in ICAO Annex 4 - Aeronautical Charts. Differences to these provisions are detailed in subsection GEN 1.7.

2 Maintenance of charts

2.1 The aeronautical charts included in the AIP are kept up to date by amendments to the AIP. Corrections to aeronautical charts not contained in the AIP are promulgated by AIP amendments and are listed under paragraph 7 of this subsection. Information concerning the planning for or issuance of new maps and charts is notified by Aeronautical Information Circular.

2.2 If incorrect information detected on published charts is of operational significance, it is corrected by NOTAM.

3 Purchase arrangements

3.1 The following SA 1:500 000 Topographical (Aeronautical Edition) and the 1: 1000 000 (ICAO) World Aeronautical Charts and Digital format charts are available from:

- a) National Geo-spatial Information Department of Agriculture, Land Reform and Rural Development Private Bag x 10 Mowbray 7705
- b) The Chief Director: National Geo-spatial Information Department of Agriculture, Land Reform and Rural Development 600 Lilian Ngoyi Street Block A Pretoria 0001

Civil Aviation Authority



- 3.2 The following series of aeronautical charts are produced
 - a) World Aeronautical Chart ICAO 1:1 000 000 (Mandatory)
 - b) Aeronautical Chart ICAO: 1:500 000 (Non-mandatory)
 - c) Aerodrome/Heliport Chart ICAO (Mandatory)
 - d) Aerodrome Ground Movement Chart ICAO (Non-mandatory)
 - e) Aircraft Parking/Docking Chart -ICAO (Non-mandatory)
 - f) Standard Departure Chart -Instrument (SID) ICAO (Conditionally required)
 - g) Standard Arrival Chart Instrument (STAR) -ICAO (Conditionally required)
 - h) Instrument Approach Chart -ICAO (for each runway and procedure type) (Mandatory)
 - i) Precision Approach Terrain Chart (PATC) ICAO (Mandatory)
 - j) Aerodrome Obstacle Chart ICAO Type A (Operating Limitations) (Mandatory)
 - k) Radar Minimum Altitude Chart (ATC Surveillance Minimum Chart) ICAO
- 3.3 General description
- a) World Aeronautical Chart -ICAO 1:1 000 000. This series is constructed on Lambert conical orthomorphic projection. The aeronautical data shown have been kept to a minimum, consistent with the use of the chart for visual air navigation. It includes a selection of aerodromes, significant obstacles, elements of the ATS system, prohibited, restricted and danger areas, and radio navigation aids. The chart provides information to satisfy visual air navigation and is also used as a pre-flight planning chart.
- b) Aeronautical chart ICAO 1: 500 000: This series is constructed on Lambert conical orthomorphic projection and the aeronautical data consist of major international aerodromes, selected radio navigation aids, lattices of long-range electronic aids to navigation, FIR, CTA, CTR, reporting points, etc. The chart is designed to provide a means of maintaining a continuous flight record of the aircraft position.
- c) Aerodrome/Heliport Chart ICAO. This chart contains detailed aerodrome/heliport data to provide flight crews with information that will facilitate the ground movement of aircraft:
 - from the aircraft stand to the runway; and;
 - from the runway to the aircraft stand; and helicopter movement: from the helicopter stand to the touchdown and lift-off area and to the final approach and take-off area;
 - from the final approach and take-off area to the touchdown and lift-off area and to the helicopter stand;
 - along helicopter ground and air taxiways; and
 - along air transit routes.
 It also provides essential operational information at the aerodrome/heliport.



- d) Aerodrome Ground Movement Chart ICAO. This chart is produced for those aerodromes where, due to congestion of information, details necessary for the ground movement of aircraft along the taxiways to and from the aircraft stands and for the parking/docking of aircraft cannot be shown with sufficient clarity on the Aerodrome/ Heliport Chart - ICAO.
- e) Aircraft Parking/Docking Chart ICAO. This chart is produced for those aerodromes where, due to the complexity of the terminal facilities, the information to facilitate the ground movement of aircraft between the taxiways and the aircraft stands and the parking/docking of aircraft cannot be shown with sufficient clarity on the Aerodrome/ Heliport Chart - ICAO or on the Aerodrome Ground Movement Chart - ICAO.
- f) Standard Departure Chart Instrument (SID) ICAO. This chart is produced whenever a standard departure route - instrument has been established and cannot be shown with sufficient clarity on the Area Chart - ICAO. The aeronautical data shown includes the aerodrome of departure, aerodrome(s) which affect the designated standard departure route - instrument, prohibited, restricted and danger areas and the air traffic services system. This chart provides the flight crew with information that will enable them to comply with the designated standard departure route - instrument from the take-off phase to the en-route phase.
- g) Standard Arrival Chart Instrument (STAR) ICAO. This chart is produced whenever a standard arrival route - instrument has been established and cannot be shown with sufficient clarity on the Area Chart - ICAO. The aeronautical data shown include the aerodrome of landing, aerodrome(s) which affect the designated standard arrival route - instrument, prohibited, restricted and danger areas and the air traffic services system. This chart provides the flight crew with information that will enable them to comply with the designated standard arrival route - instrument from the en-route phase to the approach phase.
- h) Instrument Approach Chart ICAO. This chart is produced for all aerodromes used by civil aviation where instrument approach procedures have been established. A separate Instrument Approach Chart - ICAO has been provided for each approach procedure.

The aeronautical data shown includes information on aerodromes, prohibited, restricted and danger areas, radio communication facilities and navigation aids, minimum sector altitude, procedure track portrayed in plan and profile view, aerodrome operating minima etc.

This chart provides the flight crew with information that will enable them to perform an approved instrument approach procedure to the runway of intended landing including the missed approach procedure and where applicable, associated holding patterns.

- Precision Approach Terrain Chart ICAO. This chart provides detailed terrain profile information within a defined portion of the final approach so as to enable the aircraft operating agencies to assess the effects of the terrain on decision height determination by use of radio altimeters.
- j) Aerodrome Obstacle Chart ICAO Type A (Operating Limitations). This chart is produced for all aerodromes used by civil aviation, and provides information on significant obstacles in the take-off flight path areas. It is shown in both plan and profile view. This obstacle information provides data necessary to enable the operator to comply with the operating limitations of Annex 6, Parts I and II, Chapter 5.



k) Radar Minimum Altitude Chart (ATC Surveillance Minimum Chart) - ICAO. This supplementary chart provides information which enables the flight crew to monitor and cross-check altitudes assigned by a controller using an ATS surveillance system.

3.4 The following series of charts are not published/produced: These charts are either not required, not implemented or are available from commercial suppliers.

- a) Aeronautical Navigation Chart ICAO Small Scale
- b) Plotting Chart ICAO

GEN 3.2-4

15 JAN 24

- c) Aerodrome Obstacle Chart ICAO Type B
- d) Aerodrome Terrain and Obstacle Chart ICAO Electronic
- e) Area Chart ICAO
- f) Enroute Chart ICAO
- g) Visual Approach Chart ICAO
- h) Electronic Aeronautical Chart Display ICAO Charts

4 List of aeronautical charts available

4.1 The aeronautical charts available are listed in the tables which follow at 5.



5	Index to the World	Aeronautical	Chart (WAC)	- ICAO 1: 1000
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Title of Series	Scale	Name and/or number			Date Y/M/D	Source Date
World Aeronautical Chart ICAO (WAC)	1:1 000 000	Bloemfontein Bulawayo Calvinia Cape Town Durban Inhambane Johannesburg Kalahari Keetmanshoop Livingstone Maputo Ondangwa Gqeberha Tsumeb Vryburg Windhoek	(3397) (3275) (3296) (3422) (3398) (3276) (3300) (3274) (3302) (3177) (3299) (3179) (3421) (3178) (3301) (3273)	7th Ed 4th Ed 7th Ed 6th Ed 9th Ed 8th Ed 8th Ed 8th Ed 3rd Ed 6th Ed 5th Ed 6th Ed 4th Ed 6th Ed 4th Ed 4th Ed 4th Ed	JUL 23 NOV 22 JAN 23 JUL 23 JAN 23 NOV 22 OCT 19 NOV 16 MAY 14 NOV 22 MAY 14 NOV 22 MAY 14 JUL 23 MAY 14 OCT 17 MAY 14	2017 2006 2015 2014 2015 2000 2015 1998 2002 2009 2010 2009 2015 2009 2015 2009 2016 2009
SA Topographi- cal Aeronautical Edition	1:500 000	Alexander Bay Alldays Beaufort West Bloemfontein Calvinia Cape Town Gobabis Grootfontein Johannesburg Katima Mulilo Keetmanshoop Kimberley Kroonstad Leonardville Luderitz Mbombela Ondangwa Opuwo Otjiwarongo Oudtshoorn Musina Phalaborwa Polokwane Gqeberha Prieska Queenstown Rehoboth Rundu Springbok Ulundi Upington Mahikeng Windhoek	(2714) (2126) (3122) (2924) (3117) (2118) (1918) (2526) (1722) (2518) (2722) (2726) (2318) (2514) (2530) (1714) (1714) (1714) (1714) (1320) (2130) (2330) (2330) (2330) (2326) (3324) (2920) (3126) (2314) (2916) (2718) (2522) (2113)	5th Ed 4th Ed 4th Ed 3rd Ed 3rd Ed 1st Ed 1st Ed 1st Ed 1st Ed 3rd Ed 3rd Ed 3rd Ed 3rd Ed 3rd Ed 1st Ed 1st Ed 1st Ed 1st Ed 1st Ed 1st Ed 1st Ed 4th Ed 1st Ed 3rd Ed 4th Ed 1st Ed 1st Ed 1st Ed 3rd Ed 4th Ed 1st Ed 1st Ed 1st Ed 1st Ed 1st Ed 1st Ed 1st Ed 3rd Ed 4th Ed 1st Ed 1st Ed 1st Ed 3rd Ed 3rd Ed 4th Ed 1st Ed 1st Ed 3rd Ed 3rd Ed 4th Ed 1st Ed 3rd Ed 3rd Ed 3rd Ed 3rd Ed 3rd Ed 3rd Ed 3rd Ed 3rd Ed 1st Ed	APR 20 OCT 22 APR 21 APR 20 JAN 23 JUL 23 Namib FEB 00 Namib May 96 AUG 19 RSA OCT 95 APR 14 APR 20 APR 21 Namib FEB 00 Namib JAN 03 APR 20 JUN 96 FEB 00 FEB 00 FEB 00 FEB 00 APR 21 OCT 22 APR 22 APR 22 APR 22 APR 20 JUL 23 APR 20 OCT 98 OCT 96 APR 20 APR 20 APR 20 APR 21 JAN 23 APR 20 APR 21 APR 20 OCT 96 APR 20 APR 20 AP	2009 2014 2005 2004 2015 2014 1985 2015 2015 1982 2009 2012 2017 1983 1978 2010 1981 1986 2007 2014 2004 2007 2014 2005 2015 2015 1987 1981 2015 2015 2009 2007 1984



GEN 3.2-6 15 APR 24

Title of Series	Scale			Date Y/M/D	Source Date
Instrument Approach and landing Chart		Alexander Bay Aerodrome Chart VOR-A RWY 01 VOR-B RWY 19	-AD-01 -VOR-01 -VOR-02	07/03/15 07/03/15 07/03/15	
		Bethlehem Aerodrome Chart	-AD-01	07/06/07	
		Bloemfontein (Bram Fischer INTL) Aerodrome Chart Aircraft parking/Docking chart Hot Spot VOR RWY 02 VOR RWY 20 Radar Terrain Clearance Chart UTONU 1A STAR 02 Data tabulation OKTIG 1B SID 02 Data tabulation RNAV (GNSS) RWY 02 Data tabulation RNAV (GNSS) RWY 20 Data tabulation	-AD-01 -AD-02 -AD-03 -VOR-01 -VOR-02 -RAD-01 -ARR-01 -ARR-01A -DEP-01 -DEP-01A -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02	18/11/08 14/11/13 17/01/05 14/12/11 14/12/11 23/05/18 17/03/30 17/03/30 17/03/30 17/03/30 17/03/30 17/03/30 17/03/30	
		Bhisho Aerodrome Chart	-AD-01	 18/12/06	
		Cape Town INTL Aerodrome Chart Ground Movement Chart Aircraft Parking/Docking Chart Aircraft Parking/Docking Chart Restricted Visibility Chart Hot Spot Helicopters ARR/DEP Zone Chart KODES 1A SID 01 IMSOM 1A SID 01 TETAN 1A SID 01 TETAN 1A SID 19 IMSOM 1B SID 19 OKTED 1B SID 19 OKTED 1B SID 19 OKTED 1C SID 19 ERDAS 1A STAR 01 GETEN 1A STAR 01 ASPIK 1A STAR 01 ERDAS 1B STAR 19 GETEN 1B STAR 19 ILS RWY 01 Data tabulation	-AD-01 -AD-02 -AD-03 -AD-04 -AD-05 -AD-06 -AD-07 -DEP-02 -DEP-02 -DEP-03 -DEP-05 -DEP-06 -DEP-08 -DEP-08 -DEP-09 -DEP-09 -DEP-10 -ARR-01 -ARR-01 -ARR-02 -ARR-04 -ARR-06 -ARR-07 -ARR-08 -ILS-01	19/06/20 23/06/15 23/06/15 23/07/13 23/07/13 23/07/13 12/03/08 19/01/03 07/05/10 19/01/03 19/01/03 19/01/03 19/01/03 19/01/03 19/01/03 19/01/03 19/01/03 19/01/03 19/01/03 19/01/03 23/06/15 23/06/15	



GEN 3.2-7 15 JAN 25

Title of Series	Scale			Date Y/M/D	Source Date
Instrument Approach and landing Chart		ILS Z RWY 19 Data tabulation VOR Z RWY 01 Radar Terrain Clearance Chart Precision APCH Terrain Chart RWY 01 Precision APCH Terrain Chart RWY 19 AD OBST Type A AD OBST Type A RNAV (RNP) Z RWY 01 Data tabulation RNAV (RNP) Y RWY 01 Data tabulation RNAV (RNP) Z RWY 19 Data tabulation RNAV (RNP) Z RWY 34 Data tabulation RNAV (GNS) RWY 01 Data tabulation RNAV (GNSS) RWY 19 Data tabulation RNAV (GNSS) RWY 19 Data tabulation	-ILS-02 -ILS-02A -VOR-01 -RAD-01 -PATC-01 -PATC-02 -OBST Type A-01 -OBST Type A-02 -RNAV-01 -RNAV-01 -RNAV-02 -RNAV-02 -RNAV-03 -RNAV-03 -RNAV-03 -RNAV-04 -RNAV-04 -RNAV-05 -RNAV-05 -RNAV-06 -RNAV-06 -RNAV-06 -RNAV-06	23/06/15 23/06/15 19/01/03 24/07/11 24/07/11 13/10/17 13/10/17 13/10/17 19/05/23 17/10/12 19/05/23 17/10/12 19/01/03 17/10/12 19/05/23 17/11/09 19/05/23 20/03/26 18/05/24 18/02/01	
		King Phalo Aerodrome Chart Restricted Visibility Chart ILS Z RWY 11 ILS RWY 29 VOR RWY 11 VOR Z RWY 29 VOR Y RWY 29 Radar Terrain Clearance Chart RNAV (GNSS) RWY 11 Data tabulation RNAV (GNSS) RWY 29 Data tabulation	-AD-01 -AD-02 -ILS-01 -ILS-03 -VOR-01 -VOR-02 -VOR-03 -RAD-01 -RNAV-01 -RNAV-01 -RNAV-02 -RNAV-02 -RNAV-02	24/04/18 16/12/08 08/07/03 08/07/03 08/07/03 08/07/03 08/07/03 22/09/08 18/10/11 17/07/20 17/07/20	
		Fort Beaufort Aerodrome Chart RNAV (GNSS) RWY 11 Data tabulation RNAV (GNSS) RWY 29 Data tabulation Graaff-Reinet Aerodrome Chart RNAV (GNSS) RWY 04 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A -AD-01 -RNAV-01 -RNAV-01	18/10/11 18/03/01 18/03/01 18/03/01 18/03/01 21/08/12 21/08/12 21/02/25 21/02/25	
		George Aerodrome Chart Restricted visibility chart Hot Spot XALIN 1B RNAV (GNSS) RWY 11 STAR Data tabulation AXEMU 1A RNAV (GNSS) RWY 11 STAR Data tabulation GABGO 1A RNAV (GNSS) RWY 11 STAR Data tabulation GABGO 1B RNAV (GNSS) RWY 11 STAR Data tabulation	-AD-01 -AD-02 -AD-03 -ARR-02 -ARR-02A -ARR-02A -ARR-03A -ARR-03A -ARR-04 -ARR-04 -ARR-04 -ARR-05 -ARR-05A	18/10/11 18/05/24 18/05/24 18/05/24 18/05/24 18/05/24 18/05/24 18/05/24 18/05/24 18/05/24 18/05/24	

GEN 3.2-8 15 JAN 25



Title of Series	Scale			Date Y/M/D	Source Date
Instrument Approach and landing Chart		ILS RWY 11 ILS Z RWY 29 Data tabulation VOR RWY 11 VOR RWY 29 Radar Minimum Altitude Chart RNAV (GNSS) RWY 11 Data tabulation RNAV (GNSS) RWY 29 Data tabulation Precision APCH Terrain Chart RWY 06 Precision APCH Terrain Chart RWY 24 AD OBST Type A	-ILS-01 -ILS-02 -ILS-02A -VOR-01 -VOR-02 -RAD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A -PATC-01 -PATC-01 -PATC-02 -OBST Type A-01	16/05/26 24/10/03 24/10/03 14/05/01 14/05/01 13/01/10 18/02/01 18/03/29 18/03/29 18/03/29 16/11/10 16/11/10	
		George Dick Montshioa Aerodrome Chart VOR A RWY 04	-AD-01 -VOR-01	19/07/18 19/06/20	
		Grand Central Aerodrome Chart Restricted visibility Chart	-AD-01 -AD-02	19/07/18 10/04/08	
		Greytown Aerodrome Chart VOR RWY 24 RNAV (GNSS) RWY 24 Data tabulation	-AD-01 -VOR-01 -RNAV-01 -RNAV-01A	21/08/12 19/03/28 19/05/23 19/05/23	
		Hluhluwe Aerodrome Chart	-AD-01	04/07/08	
		Hoedspruit Aerodrome Chart	-AD-01	04/07/08	
		Johannesburg (O R Tambo INTL) Aerodrome Chart Ground movement Aircraft Parking/Docking Chart Aerodrome Parking and Docking Chart Aircraft Parking/Docking Chart Aircraft Parking/Docking Chart Ground Movement Chart - A380 Hot spot chart EGMEN 2A SID 03L APDAK 3A RWY 03L SID VASUR 3A SID 03L/R RAGUL 3A RWY 03L/R SID NESAN 1A SID 03L/R GRASMERE 5B RWY 03L/R SID EXOBI IA SID 03L/R	-AD-01 -AD-02 -AD-03 -AD-04 -AD-05 -AD-06 -AD-07 -AD-08 -DEP-01 -DEP-02 -DEP-03 -DEP-04 -DEP-06 -DEP-06 -DEP-07 -DEP-08 -DEP-08 -DEP-10	22/04/21 23/06/15 23/06/15 23/06/15 23/06/15 23/06/15 23/06/15 23/06/15 23/07/13 13/01/10 16/08/18 16/03/31 16/08/18 13/01/10 14/08/21 13/01/10	



GEN	3.2-9
15.	JUL 24

Title of Series	Scale			Date Y/M/D	Source Date
Instrument		Data tabulation		13/01/10	
Approach		APDAK 1 B RNAV 03L SID	-DEP-11	14/08/21	
and		Data tabulation	-DEP-11A	13/01/10	
landing		EGMEN 2B SID 21R	-DEP-12	13/01/10	
Chart		APDAK 2B RWY 21R SID	-DEP-13	14/08/21	
		VASUR 3B SID 21L/R	-DEP-14	16/03/31	
		RAGUL 3B RWY 21L/R SID	-DEP-15	14/08/21	
		OVALA 1B RWY 21L/R SID	-DEP-16	14/08/21	
		GRASMERE 6C RWY 21R SID	-DEP-17	14/08/21	
		EXOSI 3B SID 21L/R	-DEP-18	13/01/10	
		HEIDELBERG 5D RWY 21L/R SID	-DEP-19	14/08/21	
		LANSERIA 1C SID 21R	-DEP-20	16/03/31	
		EGMEN 1D SID 21R	-DEP-21	13/01/10	
			-DEP-21A	13/01/10	
		APDAK I D RINAV RVVI Z IR SID	-DEP-22	14/00/21	
			DEP-22A	13/01/10	
		Data tabulation	-DEF-23	14/00/21	
			-ARR-01	20/12/31	
		NIBEX 24 03R STAR	-ARR-02	20/12/31	
		STANDERTON 6A 03R STAR	-ARR-03	20/12/31	
		OKPIT 4A 03R STAR	-ARR-04	20/12/31	
		WITBANK 4A 03R STAR	-ARR-05	20/12/31	
		AVILO 1A 03R STAR	-ARR-07	20/12/31	
		AVAGO 1C 03R STAR	-ARR-08	20/12/31	
		Data tabulation	-ARR-08A	13/01/10	
		NIBEX 1B RNAV RWY 03R STAR	-ARR-09	20/12/31	
		Data tabulation	-ARR-09A	13/01/10	
		STANDERTON 1C RNAV RWY 03R STAR	-ARR-10	20/12/31	
1		Data tabulation	-ARR-10A	13/01/10	
		AVILO 1B RNAV RWY 03R STAR	-ARR-12	20/12/31	
I		Data tabulation	-ARR-12A	13/01/10	
		AVAGO 2B STAR 21	-ARR-13	20/12/31	
		NIBEX 2C RWY 21L	-ARR-14	20/12/31	
		STANDERTON 5B STAR 21L	-ARR-15	20/12/31	
		WITDANK 20 STAD 24	-ARR-10	20/12/31	
			-ARR-17 ADD 19	20/12/31	
		Data tabulation	-ARR-10	13/01/10	
		NIBEX 1D STAR 21	-ARR-19	20/12/31	
1		Data tabulation	-ARR-19A	13/01/10	
1		STANDERTON 1D STAR 21L	-ARR-20	20/12/31	
		Data tabulation	-ARR-20A	13/01/10	
		ILS Z RWY 03L	-ILS-01	13/01/10	
1		ILS Y RWY 03L	-ILS-02	16/08/18	
1		ILS Z RWY 03R	-ILS-03	13/01/10	
		ILS X RWY 03R	-ILS-05	14/08/21	
11		ILS W RWY 03R	-ILS-06	14/08/21	
		ILS Z RWY 21L	-ILS-07	13/01/10	
		ILS RWY 21R	-ILS-10	16/06/23	
11		VOR Z RWY 21R	-VOR-01	13/04/04	
		VOR Y RWY 21R	-VOR-02	13/01/10	
1]		Radar Minimum Altitude Chart	-KAD-01	16/03/31	
		KNAV KVVY U3K	-KNAV-U1	20/12/31	
			-KINAV-U1A	14/01/09	
		RINAV RVVY ZIL	-RINAV-UZ	20/12/31	
			OBST Type A 01	20/10/08	
		AD OBST Type A RWY 03L 21R AD OBST Type A RWY 03R 21L	-OBST Type A-01	17/04/27	

Civil Aviation Authority

AMDT 3/24

GEN 3.2-10 15 JUL 24

AIP South Africa

Title of Series Scale			Date Y/M/D	Source Date
Instrument Approach and landing	Precision APCH Terrain Chart RWY 03L Precision APCH Terrain Chart RWY 21R Precision APCH Terrain Chart RWY 03R Precision APCH Terrain Chart RWY 21L	-PATC-01 -PATC-02 -PATC-03 -PATC-04	17/01/05 17/01/05 17/01/05 17/01/05	
Chart	Kimberly Aerodrome Chart Restricted Visibility Chart Aircraft Parking/Docking Chart VOR RWY 02 VOR RWY 20 EVESI 1A STAR 02 Data tabulation IBKEL 1A STAR 02 Data tabulation IBKEL 1B STAR 20 Data tabulation UNRAG 1A SID 02 Data tabulation OKPAG 1A SID 02 Data tabulation OKPAG 1B SID 20 Data tabulation RNAV (GNSS) RWY 02 Data tabulation RNAV (GNSS) RWY 20 Data tabulation	-AD-01 -AD-02 -AD-03 -VOR-01 -VOR-02 -ARR-01 -ARR-01A -ARR-02 -ARR-02A -ARR-03 -ARR-03 -ARR-03 -DEP-01 -DEP-02 -DEP-02 -DEP-02A -DEP-02A -DEP-03 -DEP-03 -RNAV-01 -RNAV-01 -RNAV-02 -RNAV-02 -RNAV-02	21/02/25 12/11/15 22/09/08 13/12/12 17/05/25 17/05/25 20/08/13 20/08/13 20/08/13 20/08/13 17/05/25 20/08/13 20/08/13 20/08/13 20/08/13 20/08/13 20/08/13 17/06/22 17/06/22 17/06/22	
	King Shaka INTL Aerodrome Chart Aircraft Parking/Docking Chart AD OBST TYPE A ILS Z RWY 06 ILS Y RWY 06 ILS Y RWY 06 VOR Z RWY 24 Radar Minimum Altitude Chart RWY 06 APMAT 1A Data tabulation RWY 06 GETOK 1C Data tabulation RWY 06 GETOK 1C Data tabulation RWY 06 GETOK 1C Data tabulation RWY 06 ITMIL 1A Data tabulation RWY 24 APMAT 1B Data tabulation RWY 24 ITMIL 1A Data tabulation RWY 24 ITMIL 1B Data tabulation RWY 24 ITMIL 1B Data tabulation RWY 24 ITMIL 1C Data tabulation RWY 24 OKTAN 1A Data tabulation	-AD-01 -AD-02 -OBST Type A-01 -ILS-01 -ILS-03 -ILS-03 -ILS-04 -VOR-01 -VOR-01 -VOR-01 -ARR-01 -ARR-01 -ARR-02 -ARR-02 -ARR-02 -ARR-03 -ARR-03 -ARR-04 -ARR-04 -ARR-04 -ARR-05 -ARR-05 -ARR-06A -ARR-06A -ARR-07 -ARR-07 -ARR-07 -ARR-07 -ARR-08 -ARR-08 -DEP-01 -DEP-01 -DEP-01 -DEP-02 DEP-	18/10/11 23/06/15 14/11/13 16/12/08 16/12/08 16/12/08 16/12/08 17/01/05 13/07/25 14/12/11 10/05/06 14/12/11 13/05/02 15/04/30 17/08/17 15/08/20 11/04/07 14/12/11 13/03/07 15/08/20 11/04/07 14/12/11 10/05/06 14/12/11	



GEN 3.2-11 15 JAN 25

Title of Series	Scale				Source Date
Instrument Approach and Landing Chart		RWY 06 TUBIN 1A Data tabulation RWY 24 TUBIN 1B Data tabulation Greytown 1A Data tabulation Greytown 2B Data tabulation RNAV RWY 06 Data tabulation RNAV RWY 24 Data tabulation Precision APCH Terrain Chart RWY 06 Precision APCH Terrain Chart RWY 24	-DEP-03 -DEP-03A -DEP-04 -DEP-04A -DEP-05 -DEP-05A -DEP-06A -DEP-06A -RNAV-01 -RNAV-01A -RNAV-01A -RNAV-02A -RNAV-02A -PATC-01 -PATC-02	14/12/11 11/04/07 14/12/11 11/04/07 14/12/11 11/04/07 14/12/11 11/04/07 17/08/17 10/11/18 17/08/17 10/11/18 24/07/11 24/07/11	
		Kleinsee Aerodrome Chart	-AD-01	04/07/08	
		Kruger Mpumalanga INTL Aerodrome Chart RAMP chart ILS Z RWY 05 ILS Y RWY 05 VOR/DME RWY 05 VOR/DME RWY 05 VOR/DME RWY 23 RNAV (GNSS) RWY 05 Data tabulation TILIR 1A RWY 05 Data tabulation	-AD-01 -AD-02 -ILS-01 -ILS-02 -VOR-01 -VOR-02 -RNAV-01 -RNAV-01A -ARR-01 -ARR-01	20/12/31 04/07/08 20/04/23 20/04/23 18/07/19 18/07/19 20/10/08 20/10/08 20/10/08 21/05/20 21/05/20	
		Ladysmith Aerodrome Chart VOR RWY 11/29	-AD-01 -VOR-01	04/07/08 09/12/17	
		Langebaan CFS Aerodrome Chart	-AD-01	04/07/08	
		Lanseria INTL Aerodrome chart Aicraft parking/Docking Chart Restricted Visibility Chart RNAV (GNSS) RWY 07 Data tabulation RNAV (RNP) RWY 25 Data tabulation VOR Z RWY 07 VOR Y RWY 07 ILS Z RWY 07 Data tabulation	-AD-01 -AD-02 -AD-03 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02 -VOR-01 -VOR-01 -ILS-01 -ILS-01A	19/06/20 24/10/03 19/01/03 16/08/18 21/07/15 18/05/24 18/05/24 16/05/26 16/05/26 20/04/23 20/04/23	

AIP South Africa

GEN 3.2-12 15 JAN 25

Title of Series	Scale			Date Y/M/D	Source Date
Instrument Approach and Landing		Makhado AFB Aerodrome Chart ILS RWY 10	-AD-01 -ILS-01	04/07/08 17/10/12	
Спап		Margate Aerodrome Chart RNAV (GNSS) RWY 05 Data tabulation RNAV (GNSS) RWY 23 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A	18/10/11 16/12/08 16/12/08 16/12/08 16/12/08	
		Malelane Aerodrome Chart RNAV (GNSS) RWY 09 Data tabulation RNAV (GNSS) RWY 27 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A	18/10/11 17/04/27 15/10/15 17/04/27 15/10/15	
		Mthatha Aerodrome Chart RNAV (GNSS) RWY 14 Data tabulation RNAV (GNSS) RWY 32 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A	18/11/08 18/11/08 18/11/08 18/11/08 18/11/08 19/01/03	
		Nelspruit Aerodrome Chart RAMP	-AD-01 -AD-02	04/07/08 04/07/08	
		Newcastle Aerodrome Chart RNP RWY 11 Data tabulation	-AD-01 RNP-01 RNP-01A	08/12/18 23/10/05 23/06/15	
		Overberg Aerodrome Chart RNAV (GNSS) RWY 17 Data tabulation RNAV (GNSS) RWY 35 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A	04/07/08 18/05/24 18/03/29 18/05/24 18/03/29	

AIP South Africa

GEN 3.2-13 15 OCT 24

Title of Series	Scale			Date Y/M/D	Source Date
Instrument Approach		Phalaborwa Aerodrome Chart	-AD-01	04/07/08	
and Landing Chart		Pietermaritzburg Aerodrome Chart RNAV (GNSS) RWY 16 Data tabulation RNAV (GNSS) RWY 34 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A	18/11/08 19/06/20 10/07/29 19/07/18 10/09/23	
		Piet Retief Aerodrome Chart	-AD-01	04/07/08	
		Pilanesberg Aerodrome Chart Breakcloud VOR/DME 05	-AD-01 -VOR-01	04/07/08 04/07/08	
		Plettenberg Bay Aerodrome Chart RNAV (GNSS) RWY 12 Data tabulation RNAV (GNSS) RWY 30 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A	18/11/08 21/11/04 21/11/04 21/11/04 21/11/04	
		Polokwane INTL Aerodrome Chart Restricted Visibility Chart VOR RWY 05 ILS RWY 05 RNAV (GNSS) RWY 05 Data tabulation	-AD-01 -AD-02 -VOR-01 -ILS-01 -RNAV-01 -RNAV-01	18/11/08 13/03/07 16/09/15 17/10/12 19/07/18 19/07/18	
		Pongola Aerodrome Chart	-AD-01	04/07/08	
		Chief Dawid Stuurman INTL Aerodrome Chart Aircraft parking/Docking Chart ILS RWY 08 ILS Z RWY 26 VOR Z RWY 26 Radar Terrain Clearance Chart RNAV (GNSS) RWY 08 Data tabulation RNAV (GNSS) RWY 26 Data tabulation AD OBST Type A-01 RWY 08/26 Precision APCH Terrain Chart RWY 08 Precision APCH Terrain Chart RWY 26	-AD-01 -AD-02 -ILS-01 -ILS-02 -VOR-01 -VOR-02 -RAD-01 -RNAV-01 -RNAV-01 -RNAV-02 -RNAV-02A -OBST Type A-01 -PATC-01 -PATC-02	18/11/08 15/09/17 17/09/14 17/09/14 18/12/06 16/01/07 13/04/04 15/09/17 15/09/17 15/09/17 15/09/17 18/06/21 18/06/21	
		Rand Aerodrome Chart Restricted Visibility Chart	-AD-01 -AD-02	18/10/11 10/01/14	

AIP South Africa

Date Y/M/D Source Title of Series Scale Date Instrument **Richards Bay** Approach Aerodrome Chart -AD-01 04/07/08 Parking -AD-02 04/07/08 and Breakcloud VOR/DME 05 -VOR-01 Landing 04/07/08 Breakcloud VOR/DME 23 -VOR-03 Chart 04/07/08 Secunda Aerodrome Chart 18/11/08 -AD-01 Sishen Aerodrome Chart -AD-01 21/08/12 Aircraft parking/Docking chart XASMI/XATKU VISUAL DEP -AD-02 14/05/01 -VFR DEP-01 19/07/18 -VFR ARR-01 XATKU/XASMI VISUAL ARR 19/07/18 RNAV (GNSS) RWY 17 -RNAV-01 17/09/14 Data tabulation -RNAV-01A 17/09/14 Skukuza Aerodrome Chart -AD-01 18/12/06 -RNAV-01 -RNAV-01A 18/12/06 RNAV (GNSS) RWY 17 Data tabulation RNAV (GNSS) RWY 35 18/12/06 18/12/06 -RNAV-02 Data tabulation -RNAV-02A 18/12/06 St Francis field Aerodrome Chart -AD-01 18/12/06 RNAV (GNSS) RWY 10 -RNAV-01 18/09/13 Data tabulation RNAV (GNSS) RWY 28 Data tabulation -RNAV-01A 18/09/13 -RNAV-02 -RNAV-02A 18/09/13 18/09/13 Swartkop MIL -AD-01 07/03/15 Aerodrome Chart Tutuka Aerodrome Chart -AD-01 04/07/08 Tswalu Aerodrome Chart -AD-01 19/01/03 Tzaneen Aerodrome Chart -AD-01 04/07/08 Ulundi Aerodrome Chart -AD-01 04/07/08

GEN 3.2-14

15 OCT 24



GEN 3.2-15 15 JUL 24

Title of Series	Scale			Date Y/M/D	Source Date
Instrument Approach and Landing Chart		Upington Aerodrome Chart Restricted Visibility Chart Hot spot chart VOR RWY 35 RNAV (GNSS) RWY 35 Data tabulation	-AD-01 -AD-02 -AD-03 -VOR-01 -RNAV-01 -RNAV-01A	21/08/12 14/05/01 16/01/07 14/03/06 16/12/08 16/12/08	
		Venetia Mine Aerodrome Chart	-AD-01	04/07/08	
		Waterkloof AFB Aerodrome Chart RNAV (GNSS) RWY 01 Data tabulation RNAV (GNSS) RWY 19 Data tabulation	-AD-01 -RNAV-01 -RNAV-01A -RNAV-02 -RNAV-02A	05/01/20 17/10/12 17/09/14 17/09/14 17/10/12	
		Wonderboom Aerodrome Chart RNAV (GNSS) RWY 29 Data tabulation VOR RWY 29	-AD-01 -RNAV-01 -RNAV-01A -VOR-01	18/11/08 18/09/13 18/09/13 16/07/21	
		Witbank Aerodrome Chart Breakcloud VOR	-AD-01 -VOR-01	04/07/08 04/07/08	
		Ysterplaat MIL Aerodrome Chart	-AD-01	07/03/15	

GEN 3.2-16 15 JUL 24



World Aeronautical Charts WORLD AERONAUTICAL CHART INDEX SOUTHERN AFRICA LIVINGSTONE TSUMEB. SALISBURY ONDANGWA 3177 3178 3176 3179 KALAHARI BULAWAYO WINDHOEK INHAMBANE 3274 3275 3273 3276 VRYBURG JOHANNESBURG MAPUTO KEETMANSHOOP 3300 3302 3301 3299 BLOEMFONTEIN DURBAN CALVINIA 3397 3398 3396 PORT ELIZABETH CAPE TOWN 3421 3422

AMDT 3/24



6 Topographical charts

To supplement Aeronautical charts, a wide range of topographical charts is available from:

- a) The Government Printer Publications Section Private Bag X85 Pretoria 0001
- b) Department: Rural development and Land Reform Chief Directorate: Nationale Geo-spatial Information Private Bag x10 Mowbray 7705
- c) The Surveyor-General Private Bag X20634 Bloemfontein 9300
- d) The Surveyor-General P.O. Box 396 Pietermaritzburg 3200

7 Corrections to charts not contained in the AIP

Charts	Location	Corrections

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GEN 3.3-1 15 JAN 15

GEN 3.3 AIR TRAFFIC SERVICES

1 Responsible service

Air Traffic Control in South Africa is regulated by the Civil Aviation Authority. The majority of Air Traffic Control Services are provided by the Air Traffic and Navigational Services Company Ltd under authority of the Minister of Transport. **Regulating Authority:** Postal address: **Director of Civil Aviation Civil Aviation Authority** Private Bag X 73 HALFWAY HOUSE 1685 **Republic of South Africa** Telephone: (011) 545 1000 Telefax: (011) 545 1465 AFS Address: FAHQYAYX Air Traffic Service Provider: **Postal Address:** Chief Executive Officer Air Traffic and Navigational Services Company Ltd Private Bag x 15 **Kempton Park** 1620 Telephone: (011) 607 1383/1382 Telefax: (011) 607 1577 Telex: **AFS Address: FAATYNYX** 2 Area of responsibility Air traffic services as indicated in the following paragraphs are provided for the entire area which coincides with the Cape Town, Johannesburg and Johannesburg Oceanic Flight Information Regions.

3 Types of services

With the exception of military aerodromes and a limited number of small aerodromes, Air Traffic Services in the Republic of South Africa are provided by the Air Traffic and Navigational Services Company Ltd.

The airspace of the Republic of South Africa, including adjacent international waters, is comprised of Cape Town, Johannesburg and Johannesburg Oceanic Flight Information Regions.



Air Traffic Service is exercised:

- a) on airways on the main ATS route
- b) in terminal control areas, control areas and in control zones at controlled aerodromes equipped with approach and landing aids.
- c) in aerodrome traffic zones at other aerodromes with control towers.

Flight Information Service (which includes Advisory Service) and Alerting Service within the FIRs is provided by the various Flight Information Centres.

Aerodrome Flight Information Service is provided at some of the smaller aerodromes.

Air Traffic Control, Flight Information and Alerting Service is provided by:

- a) the three ACCs, Johannesburg, Cape Town and Johannesburg Oceanic along the airways including those parts of the airways traversing terminal control areas within their respective FIRs;
- b) the relevant aerodrome control tower in co-ordination with the respective APP as necessary, for arriving and departing aircraft;
- c) other ATSUs in the different FIRs.

The description of the airspaces designated for air traffic services purposes is found in the tables forming part of ENR 2.

The air traffic rules and procedures in force in the organization of air traffic services are in conformity with ICAO Standards, Recommended Practices and Procedures. Differences between the national and international rules and procedures are given in the Regional Supplementary Procedures and Altimeter Setting Procedures being reproduced in full with differences indicated.

4 Co-ordination between the operator and ATS

Co-ordination between operators and the air traffic services is effected in accordance with paragraph 2.15 of ICAO Annex 11 and paragraphs 2.1.1.4 and 2.1.1.5 of part VIII of the PANS-ATM, (Doc 4444 - PANS-ATM)

- 4.1 Letters of Agreement and Operations Letters
 - 1) In accordance with ICAO it is accepted practice that the term Letter of Agreement is used to cover agreements between two or more adjacent ATSUs or between ATS Authorities of different States dealing with the manner in which air traffic services are to be provided by the parties concerned.



GEN 3.3-3 15 OCT 22

The term Operations Letter is used to cover agreements between one or more ATSUs on the one hand and other authorities, agencies or bodies (military, other operators, aerodrome operators etc.) on the other hand specifying the conditions. means and procedures employed to regulate their co-operation or the conduct of specific operations affecting Air Traffic Services.

- 2) In order to comply with the afore-mentioned, the following procedure shall be followed for the processing of Letters of Agreement and Operations Letters to ensure that:
- a) Any action required by Letters of Agreement is co-ordinated with ATSUs concerned.
- b) Any necessary co-ordination with other parties concerned with an Operational Letter is affected. This also means where ATS providers in South Africa require to undertake operational agreements with foreign ATS providers, co-ordination with the South African CAA through the Director of Civil Aviation shall be undertaken.
- c) The effective date of an agreement allows for at least 30 days for familiarisation after distribution to all concerned.
- d) The Agreement is signed by the Unit Chief Controller / ATS Manager and responsible personnel of the other Agencies / Operators involved.
- e) A copy of the Agreement is to be provided to:
- i) The Civil Aviation Authorities (CAAs) of the States involved.
- ii) The units / agencies / operators involved

5 Minimum flight altitude

- a) En-route safe altitude. An altitude which will ensure a separation height of at least 1500 FT above the highest obstacle within five (5) NM of the aircraft in flight.
- b) Minimum off route altitude (MORA)

6 Minimum flight altitude formula

An operator must use the following method to calculate minimum flight altitude:





MORA is a minimum flight altitude computed from current ONC or WAC charts.

- 1) Two types of MORAs are charted which are:
- a) Route MORAs e.g. 9800a: and
- b) Grid MORAs e.g. 98.
- 2) Route MORA values are computed on the basis of an area extending 10 NM to either side of route centreline and including a 10 NM radius beyond the radio fix/ reporting point or mileage break defining the route segment.
- 3) MORA values clear all terrain and man-made obstacles by 1 000 feet in areas where the highest terrain elevation or obstacles are up to 5 000 feet. A clearance of 2 000 feet is provided above all terrain or obstacle which are 5 001 feet and above.
- 4) A grid MORA is an altitude computed by the formula and the values are shown within each grid formed by charted lines of altitude and longitude. Figures are shown in thousands and hundreds of feet (omitting the last two digits so as to avoid chart congestion). Values followed by plus/minus are believed not to exceed the altitudes shown. The same clearance criteria as explained in subparagraph (3) above apply.

7 ATS units address list

I	Bram Fischer International Postal Address: P/Bag X20559, Bloemfontein 9300 Telephone: +27 51 503 7201 Telefax:+27 51 503 7214 AFS Address: FABLZTZX	Cape Town International Postal Address: P/Bag X 17, Cape Town Intl Airport, 7525 Telephone: +27 21 937 1116/7 Telefax: +27 21 934 0964 AFS Address: FACTZTZZ
I	Central Airspace Management Unit (CAMU) Postal Address: Private Bag x 1, Bonaero Park, 1622 Telephone: +27 11 928 6433 Telefax: +27 11 928 6420 E-mail: camu@atns.co.za	Chief Dawid Stuurman Postal Address: P.O.Box 5360,Walmer, 6065 Telephone: +27 41 501 5900 Telefax: +27 41 501 5957 (administration, office hours) Telefax: +27 41 501 5959 (ATS briefing). AFS Address: FAPEZTZX
I	George Postal Address: PO Box 10005, George 6530 Telephone: +27 44 801 8809 Telefax: +27 44 801 8810 AFS Address: FAGGZTZX	George Dick Montshioa Postal Address: P. O. Box 183, Mafikeng 2745 Telephone: +27 18 385 1131 Telefax:+27 18 385 1131 AFS Address: FAMMZTZX
	Grand Central Postal Address: P.O. Box 36, Halfway House, 1685 Telephone: +27 11 315 3534 Telefax: +27 11 805 6089 AFS Address: FAGCZTZX	Kimberley Postal Address: P/Bag X5052, Kimberley, 8300 Telephone: +27 53 851 1012 Telefax: +27 53 851 1555 AFS Address: FAKMZTZZ
1	King Phalo Postal Address: P O Box 5035, Greenfields, 5208 Telephone: +27 43 736 6161 / 706 0259 Telefax: +27 43 736 6014 AFS Address: FAELZTZX	King Shaka International Postal Address: P.O. Box 2620, Country Club 4301 Telephone: +27 32 436 5002 Telefax: +27 32 436 3811 AFS Address: FALEZTZX
	Kruger Mpumalanga International Postal Address: P O Box 20015, West Acres, 1200 Telephone: +27 13 753 7520 / 751 2917 Telefax: +27 13 751 2910 AFS Address: FAKNZTZZ	Lanseria Postal Address: P O Box 165,Lanseria 1748 Telephone: +27 11 701 3262 / 701 3278 Telefax: +27 11 701 3505 AFS Address: FALAZTZX



GEN 3.3-5 15 OCT 22

Mthatha Postal Address: P/Bag X5036, Mthatha Telephone: +27 47 536 0029 Telefax:+27 47 536 0040 AFS Address: FAUTZTZX	O R Tambo International Postal Address: P/Bag X1, Bonaero Park, 1622 Telephone: +27 11 928 6454/5 Telefax: +27 11 395 1045 AFS Address: FAORZTZZ
Pietermaritzburg Postal Address: P.O. Box 212005, Oribi 3205 Telephone: +27 33 392 3110 Telefax: +27 33 386 9618 AFS address: FAPMZTZX	Pilanesberg Postal Address: P.O. Box 2931, Mogwase, 0314 Telephone: +27 14 552 2154 or +27 14 552 1261 EXT 217 Telefax: +27 14 552 2154 AFS address: FAPNZTZX
Polokwane International Airport Postal Address: Postnet Suite 18, P/Bag X598, Polokwane North 0750 Telephone: +27 15 288 0343 Telefax: +27 15 288 0344 AFS address: FAPPZTZZ	Rand Postal Address: P.O.Box 18133,Rand Airport 1419 Telephone: +27 11 827 4517 Telefax: +27 11 827 4239 AFS Address: FAGMZTZX
Richards Bay Postal Address: Postnet Suite 75, P/Bag X1040, Richards Bay 3900 Telephone: +27 35 907 5354 AFS address: FARBZTZX	Upington Postal Address: P.O. Box 1810, Upington 8800 Telephone: +27 66 512 2688 Telefax: +27 54 331 1606 AFS Address: FAUPZTZX
Virginia (Durban) Postal Address: ATNS Virginia Tower, Postnet Suite 10, P/Bag X70 Durban North 4016 Telephone: +27 31 563 4213 Telefax:+27 31 563 4213 AFS Address: FAVGZTZZ	Wonderboom Postal Address: P O Box 81986, Doornpoort, 0017 Telephone: +27 12 543 1402 Telefax:+27 12 543 0038 AFS Address: FAWBZTZX

7.1 Hours of operations of an Air Traffic Service Unit

Pilots must take note that although the hours of operations of an Air Traffic Service Unit associated with a specific aerodrome Is published in the Republic of South Africa AIP, the service could be extended outside the published hours of operation in emergencies or at the request of the aerodrome operator. Such extensions will be advertised by NOTAM. In the interest of flight safety pilots are reminded to ensure that they familiarise themselves with the latest NOTAM in this regard.

8 USER PROCEDURE RELATING TO THE FLEXIBLE USE OF AIRSPACE WITHIN THE SOUTH AFRICAN AREA OF RESPONSIBILITY.

8.1 History:

The concept of managing the flow of air traffic within the South African area of responsibility is not new, as the Implementation of the flow control office within the OR Tambo ATC Centre will reflect. The basic concept of managing the flow of traffic, by means of Slot times has been expanded to incorporate the total management of air traffic by the planned progressive implementation of flexible use of airspace (FUA) which will allow the use of all available airspace over South Africa, by all potential users of such airspace. This concept is reflected by the terms of access and equity as entrenched in the National Airspace Master Plan and which state:

Access



The ATM system should provide an operating environment that:

- a) ensures that all airspace users have the right of access to ATM resources needed to meet their specific operational requirements; and
- b) ensures that the shared use of the airspace for different airspace users can be achieved safely.

Equity

The ATM System should ensure equity for all airspace users that have access to a given airspace or service. Thus, excluding emergency situations, which will always enjoy the highest priority, the first aircraft ready to use the ATM resources will generally receive priority, except where significant overall safety or system operational efficiency would accrue by providing priority on a different basis.

8.2 Concept:

The responsibility for the management of traffic flows within South African airspace will reside with the Central Airspace Management Unit (CAMU) which is established at the O R Tambo ATC Centre. The units responsibility will include, apart from managing the functions of the slot allocation program, the management of the use of airspace as per user requirements, catering for military exercises, special and unusual events and any other activity which might require the use of airspace for a particular time period. This unit will also be responsible for the re-routing of traffic, affected by adverse weather and temporary restricted or special use of airspace in consultation with operators and users in a collaborative decision making (CDM) process, as well as reducing delays caused by whatever reason at destination airports in co-operation with the relevant ATSU.

8.3 Application

In order to allow air traffic management to operate efficiently, all applications for use of airspace, will be required to be routed via the CAMU for processing and dissemination of Information to all affected stakeholders.

The policies and procedures associated with service are subject to strategic consideration by NASCOM periodically.

The FUA application process requires applicants to comply with the specific FUA application procedure and time scale in order to allow the safe and effective use of airspace required, without straining the efficient and orderly flow of other air traffic. The procedure consists of three components:


8.3.1 Strategic component:

This encompasses the long term planning of aircraft operators, such as schedule planning, large scale military exercises and special events, as well as slot reservations. In the event of significant changes to airspace or route structure being required to accommodate a specific use of airspace, for which AIP supplements need to be published, a lead-time of 70 days is required. Slot reservations still need to comply with the requirements as detailed in the AIP ENR 1.9.

Should the planned event be conducted within a portion of existing managed airspace, without requiring significant change to route structures, 30 days prior notification is required in order to ensure the circulation of NOTAM and other relevant information.

8.3.2 Pre-tactical component:

This encompasses airspace users engaged in normal operations, such as aerial surveys, will be accommodated in this phase of planning. Applicants are required to confirm such strategic services requests at least 48 hours prior commencement of such operations.

8.3.3 Tactical component:

Ad hoc special requests for airspace usage on a short-term basis will be dealt with, within the tactical environment, but will require 7 hours prior application. Users making use of this option must note that although the request for airspace may be approved, the allocation of such airspace may not meet their specified location or time requirements for the operation.

8.3.4 The application process is as follows:

An application for Flexible Use of Airspace needs to be applied for through the online application form which is available on the ATNS website (www.atns.co.za). under the Flexible Use of Airspace tab. The automated tracking number provided is an acknowledgment that your submission was received by the CAMU FUA processing office. It Is a temporary number for tracking purposes only. It is NOT to be taken as a response or clearance to operate.





CENTRAL AIRSPACE MANAGEMENT UNIT; FUA - USERS APPLICATION				
ITEM	LEAD TIME			
Submit request to CAMU containing the following information: 1. The requesting authority 2. Contact number 3. Type of operation 4. Number of balloons or sky-lanterns, where applicable 5. Dates of the requirement 6. The duration of the operation 7. The starting time of the operation 8. The lateral limits of the proposed area of operation either with coordinates or geographically defined. 9. Vertical limits of the proposed area of operation 10. Any special or unique communication or operational management issues. 11. Transponder codes 12. Any emergency procedures in place by applicant	As required by either the Strategic Pre - tactical or tactical requirement as reflected in GEN 3.3 para 8.3.			
 Supply details on separate page if necessary NB! In the event of cancellation of intended operation the CAMU be informed. Users are required to submit applications for special airspace allocation to the CAMU using the online application form available on WWW.ATNS.CO.ZA For operations such as aerial photography and surveys an aeronautical map with the area of operations clearly depicted on it will be required to be attached to the application. 				

9 AUTOMATIC DEPENDENT SURVEILLANCE (ADS)/CONTROLLER PILOT DATA LINK COMMUNICATION/CONTROL (CPDLC) ATS

In September 1999 ATNS successfully concluded the ADS/CPDLC trials under the project ADSAT. ADS/CPDLC as an ATM tool was accepted as operational prior 2001 and is currently being utilised for daily operations

Operators are encouraged to exploit the full benefits of the new technology, which enhances safety and efficiency due to reduced workloads, increased situational awareness and optimum routings and preferred level approvals. Those operators who are already equipped should ensure that the correct procedures detailed in the Indian Ocean Operations Manual (IOOM) are followed during operations. The participation of operators is particularly encouraged in the Indian Ocean Random Routing Area. Electronic copies of the IOOM are obtainable from the Manager Standard Assurance - ATNS or from the editor of the IOOM as reflected below:

The Editor IOOM Melbourne Centre P.O. Box 1093 TULLAMARINE VICTORIA 3043 AUSTRALIA E-mail: kathryn.cornelius@airservices.gov.au Fax: +64 9 275 3106

The service provided from Johannesburg is an ADS and CPDLC service with the additional benefits of vertical random routing and flex tracking operations in the IORRA.



The operations will be based on CPDLC as defined within the RTCA, D0219 and D0212 as implemented within the FANS-1/A avionics package.

Logon for FANS/1 equipped aircraft will be initiated with the address FAJO and for FANS/A equipped aircraft by JNBCAYA.

Operators requiring any additional information should contact the ATNS Senior Manager Operations (North) at 27-11-607 1323 or the Manager Air Traffic Services at Johannesburg 27-11-928 6526.

The IOOM is managed on behalf of the IOOM members by Air Services Australia. Any persons, organisations or agencies wishing to be part of the paper copy distribution list, should apply to the editor of the IOOM. THIS PAGE INTENTIONALLY LEFT BLANK



GEN 3.4 COMMUNICATION SERVICES

1 Responsible service

Telecommunication and Navigation Services are regulated by the South African Civil Aviation Authority, established by section 2 of the South African Civil Aviation Authority Act 1998 (Act number 40 of 1998).

Telecommunication and Navigation Services are provided by the Air Traffic and Navigation Services Company Ltd (ATNS) under authority of the Minister of Transport.

Regulating Authority:

Postal Address: South African Civil Aviation Authority Air Navigation Services Department: Communications, Navigation and Surveillance Private Bag X 73, Halfway House 1685 Telephone: +27 11 545 1000 Telefax: +27 11 545 1465 AFS Address: FAHQYAYX Website: www.caa.co.za

Service Provider: ATNS

Postal Address: Chief Executive Officer Air Traffic and Navigation Services Company Ltd Private Bag x 15 Kempton Park 1620

Telephone: +27 11 607 1383/1382 Telefax: +27 11 607 1577 AFS Address: FAATYFYX

Website: www.atns.co.za

The service is provided in accordance with the provisions contained in the following ICAO documents:

Annex 10 - Vol I & II - Aeronautical Telecommunication

Doc 8400 - Procedures for Air Navigation Services ICAO Abbreviations and Codes

Doc 8585 - Designations for Aircraft Operating Agencies, Authorities and Services

Doc 7030 - Regional Supplementary Procedures (COM Procedures for AFI)

Doc 7910 - Location Indicators





- 1.1 Satellite communication (SATCOM) The following telephone numbers are to be utilised for satellite communication (SATCOM) purposes: 1) Primary number: Johannesburg Oceanic: +27 11 928 6456 2) Secondary numbers: Johannesburg Filter: +27 11 928 6454 Cape Town Filter: + 27 21 937 1116 King Shaka Tower: +27 32 436 5002 Bloemfontein Tower: +27 51 503 7201/6 Port Elizabeth: +27 41 51 35851 It must be emphasized that these numbers are for emergency only, when all other airborne means of communication with the appropriate ATS unit have failed. 2 Area of responsibility Enquiries, suggestions or complaints regarding any telecommunications service within the boundaries of the Republic of South Africa should be referred to the relevant Station Telecommunication Officer or to the Director of Civil Aviation Facilities listed in the Republics FIRs but which fall within the boundaries of Lesotho and Swaziland are provided and administered by the following respective authorities: a) Lesotho
 - Department of Civil Aviation P.O. Box 629 Maseru 100 AFS Address: FXMMYAYX Commercial Telegraphic Address: Civilair Maseru
 - b) Swaziland

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Civil Aviation Branch,
Ministry of Works and Communications,
P.O. Box 58,
Mbabane.
AFS Address: FDMBYAYX
Commercial Telegraphic Address:, MINWORKS MBABANE
```

3 Types of service

3.1 Radio Navigation Services.

The following types of radio aids to navigation are available:

DME - Distance Measuring Equipment.

ILS - Instrument Landing System.

NDB - LF/MF Non-directional Beacon

RSR - Route Surveillance Radar.

SSR - Secondary Surveillance Radar

Civil Aviation Authority



TAR - Terminal Area Surveillance Radar.

VDF - VHF Direction-finding Station.

VOR - VHF Omni-directional Radio Range.

Radio broadcasting stations are not listed as it is considered inadvisable to use them for navigational purposes.

According to the judgement of the direction finding station, bearings are classified as follows:

Class A: Accurate to within +/-2 degrees.

Class B: Accurate to within +/-5 degrees.

Class C: Accurate to within +/-10 degrees.

Direction-finding stations have authority to refuse to give bearings or headings to steer when conditions are unsatisfactory or when bearings do not fall within the calibration limits of the station, stating the reason at the time of refusal

The use of GPS as a navigational aid has limited approval by the Civil Aviation Authority.

- 3.2 Mobile/fixed service
- 3.2.1 Mobile Service

The aeronautical stations maintain a continuous watch on their stated frequencies during the published hours of service unless otherwise notified.

An aircraft should normally communicate with the air/ground control radio station which exercises control in the area in which the aircraft is flying. Aircraft should maintain continuous watch on the appropriate frequency of the control station and should not abandon watch, except in an emergency, without informing the control radio station.

Clearance delivery service.

At JOHANNESBURG/O R Tambo International Airport a clearance delivery service is provided. This service provides:-

- a) ATC clearance
- b) Runway in use;
- c) ATIS information;
- d) Transponder code; and
- e) other pertinent information.

Pilots should call on the appropriate frequency prior to start-up and pass the following information:-

- i) call sign and registration;
- ii) requested flight level;
- iii) parking bay number;
- iv) fuel endurance;
- v) persons on board;
- vi) any changes to filed flight plan; and
- vii) any other information required by ATC.



3.2.2 Fixed Service.

Messages to be transmitted over the Aeronautical Fixed Service (AFS) are accepted only:

- a) if they satisfy the requirements of Annex 10, Vol. II, Chapter 3.3.3:
- b) if they are prepared in the form specified in Annex 10;
- c) if the text of any individual message does not exceed 200 groups.

When it is desired that a communication exceeding 200 words be transmitted over the Aeronautical Fixed Service, such a communication shall be filed in the form of separate messages, each text of which does not exceed 200 groups.

General Aircraft Operating Agency messages are only accepted for transmission to countries which have agreed to accept Class B traffic.

AFS/SITA.

An AFS/SITA interface link is available at the O R Tambo ATC Communications Centre. In view of this, airlines entering or overflying the Republic of South Africa, are required to address their flight plans and other ATC movement messages to the following SITA address: JNBXTYF.

The O R Tambo ATC Communication Centre will ensure the onward transmission of these ATC messages via AFS within the Republic of South Africa. The above does not apply to those carriers whose flights depart from airports in the following countries: Zambia, Zimbabwe, Mozambique, South Africa, Botswana and Namibia. Neither does the above apply to those airlines in respect of which repetitive flight plans have been agreed upon.

The above is intended to reduce the difficulties currently being experienced by airlines and ATC due to ATC not receiving flight plans transmitted on AFS.

ATS DIRECT SPEECH CIRCUIT REPUBLIC OF SOUTH AFRICA/O R TAMBO INTL.

As no ATS Direct Speech Circuit currently exists between South Africa, Johannesburg ACC (Johannesburg Oceanic) and Madagascar, Antananarivo ACC and between South Africa, Johannesburg ACC (Johannesburg Oceanic) and South America, Brazilia ACC, Recife ACC (alternate) agreement has been reached to utilise the following Public Switch Telephone Network (PSTN) and fax numbers:

Antananarivo ACC Tel: 09 261 20 2233912

Brazilia ACC Tel: 09 556 1 365 1586 Fax: 09 556 1 365 1768

Recife ACC Tel: 09 558 1 462 2742 Fax: 09 558 1 462 4927

The ATS/DS and AFTN circuits between Johannesburg and Ezeiza (SAM) have now been implemented via the CAFSAT satellite network. These have been operationally tested.

- 3.3 Broadcasting Service
- 3.3.1 The FLW broadcasts are available for use of aircraft in flight:
- a) meteorological broadcasts as detailed in GEN 3.5
- b) automatic terminal information service (ATIS) broadcasts superimposed on the transmission from VOR stations serving certain major airports.



3.3.2 ATIS Broadcasts

ATIS broadcast are transmitted continuously throughout hours of service and are revised every 30 minutes, on the hour and 1/2 hour. Each broadcast is prefixed with an identifying letter in the phonetic alphabet, ALFA to ZULU

Broadcasts contain:

- a) the latest METAR for the airport concerned;
- b) information on the unserviceability of navigational, approach or landing aids; and when appropriate,
- c) essential information on aerodrome conditions.

Aircraft having received the ATIS broadcasts are to inform Approach Control accordingly immediately after initial contact

- 3.4 Language used: English
- 3.5 Detailed information can be obtained in ENR 4 and AD 2

4 Requirements and conditions

The requirements and general conditions under which the communication services are available for international use, as well as the requirements for the carriage of radio equipment, are contained in the Air Navigation Regulations (ANR's) of the RSA - see sections referring to Aviation Act and Air Navigation

5 Data Link Automatic Terminal Information Service (D-ATIS). Cape Town and Johannesburg FIR

- 5.1 Introduction
- a) There will be an Air Traffic Service (ATS) air/ground data link application service for the provision of the Data link Automatic Terminal Information Service (D-ATIS) at three of South Africa International Airports with effect from 27 October 2005.
- b) Service Airports:
 - 1) O R Tambo International Airport
 - 2) Cape Town International Airport
 - 3) King Shaka International Airport
- c) The D-ATIS data link system installed at the 3 airports have been equipped with data link capability and dedicated data link communication links have been set up with SITA AIRCOM Service to enable aircraft to access D-ATIS service via VHF data link and Satellite data link.
- 5.2 Area of Operation
- a) D-ATIS data link service will be available to aircraft equipped with air/ground data link capability.
- b) The SITA data link service uses Internet working with Cooperating Data link Service Providers (Co-DSPs).
- 5.3 Data Link ATIS Service Connection
- a) The SITA Data link Service Designation Address of each Airport D-ATIS system is "JNBATYA"

Civil Aviation Authority



- b) The D-ATIS is available on the following VHF frequency 131.725 MHz.
- c) Data link to request D-ATIS information follows the AEEC 623 and the EUROCAE ED_89A Data link Applicant System Document (DLASD).
- d) The Standard Message Identifier (SMI) on the line 3 of the data link message to be used is as follows; D-ATIS: RAI (B9) - Request ATIS Report (for downlink message).
- e) In the request D-ATIS report message, the following formats shall be used;
 - i) Airport ID: O R Tambo International FAOR, Cape Town International FACT and King Shaka International FALE
 - ii) Arrival/Departure Indicator Codes shall be as follows:
 - A Arrival ATIS (ARR ATIS)
 - D Departure ATIS (DEP ATIS)
 - C- Contract ATIS (Auto Update ATIS)
 - T Terminate C mode (Terminate Auto-Update ATIS)
 - E Not Used

GEN 3.4-6

15 OCT 16

- iii) The Arrival ATIS and Departure ATIS are identical for each Airport.
- iv) C-mode is automatically terminated.
- f) Use of voice communication

Pilots of suitably equipped aircraft that cannot establish communication with data link ATIS should read the broadcast of the radio ATIS on the VHF frequencies.

5.4 Data Link Failure

Pilots shall inform the ATC at each airport of problems encountered during the provision or alternatively call the Johannesburg technical support help line on +27 11 928 6476/7.

- 5.5 Hours of operation
- a) FAOR: 24 Hours daily
- b) FACT: 24 Hours daily
- c) FALE: 24 Hours daily

6 The South African Aeronautical Message Switching System (AMSS) is situated at the Air Traffic Control Centre at O.R. Tambo International Airport. The South African AMSS is the central Aeronautical Fixed Service (AFS) Hub for the SADC region, and therefore all AFS traffic in the region is switched through this central hub. The AMSS is monitored and maintained by the ATNS Communication Centre and is responsible for both national and International links as depicted below.

AIP South Africa



AMDT 4/16







REGIONAL AND INTERNATIONAL AFTN - SCHEMATIC



Civil Aviation Authority

AMDT 4/16

GEN 3.4-10 15 OCT 16





AMDT 4/16

Civil Aviation Authority



GEN 3.5-1 15 JUL 17

GEN 3.5 METEOROLOGICAL SERVICES

1 Responsible service

1.1 The South African Weather Service (SAWS) is designated in terms of the SAWS Act No. 8 of 2001 as the aeronautical meteorological authority for provision of meteorological service for international air navigation.

Contact details:

The South African Weather Service 442 Rigel Avenue South, Erasmusrand, 0181 Private Bag X097 Pretoria 0001

Tel: +27 12 367 6000 Fax: +27 12 367 6200 AFTN: FAPRYMYX

Website: www.weathersa.co.za

1.2 The Meteorological Authority is responsible for providing oversight over the provision of aeronautical meteorological service for international air navigation.

Contact details:

The Meteorological Authority Office 442 Rigel Avenue South, Erasmusrand, 0181 Private Bag X097 Pretoria 0001

Tel: +27 12 367 6084 Fax: +27 12 367 6200 Email: metauthority@weathersa.co.za

1.3 Meteorological service provided by South African Weather Service is based on the requirements contained in the following ICAO documents:

AMDT 3/17

GEN 3.5-2 15 JUL 17



a) Annex 3 — Meteorological Service for International Air Navigation b) Doc 7030 — Regional Supplementary Procedures c) Doc 7474 — Regional Air Navigation Plan — AFI Region 1.4 The list of services provided by SAWS include the following: a) climatology services for the development and supply of climatological summaries; b) forecast services for the supply of forecast meteorological information for the specific aerodrome, area or portion of airspace; c) information dissemination service for the collection and dissemination of meteorological information; d) meteorological briefing service to aeronautical users (air traffic services, operators and flight crew members) for the supply of written and oral meteorological information on existing and expected meteorological conditions; e) meteorological reporting service for the supply of aerodrome meteorological reports; f) meteorological watch services for the monitoring and prediction of meteorological conditions affecting aircraft operations in a specific area and at specific aerodromes; g) provision of flight documentation; h) meteorological support for search and rescue; and i) any other meteorological service which is deemed as desirable by recognized aviation organizations and/or service providers or to which an operational requirement may exist. 2 Area of responsibility 2.1 The area of responsibility or flight information region (FIR) over which meteorological services are provided are as follows: a) Johannesburg FIR; b) Cape Town FIR; and c) Johannesburg Oceanic FIR. 3 Meteorological observations and reports 3.1 Meteorological observations and reports are provided to cover the operational hours of the local ATS unit.

3.2 Reports of meteorological observations are issued as:



- a) METAR and SPECI for dissemination outside the aerodrome of origin (intended for flight planning); and
- b) Local routine and local special report for dissemination at the aerodrome of origin and intended for inbound and outbound aircrafts.

3.3 Details of meteorological observations and reports are provided in Table GEN 3.5-1.

4 Types of services

4.1 Briefing and consultancy

4.1.1 Personal briefing and consultation for flight crew members is provided at all aerodrome meteorological offices.

Contact details:

Name of Office	Tel
Cape Town	+27 21 935 5777
O.R. Tambo	+27 11 309 9329/9330/9332
Port Elizabeth	+27 41 581 0403
Durban	+27 32 436 3813
Bloemfontein	+27 51 433 3281

4.2 Forecasting service

4.2.1 Forecasting service is provided by aerodrome meteorological offices and comprises the following:

- a) Terminal Aerodrome Forecast (TAF);
- b) Landing Forecast (TREND);
- c) Forecast for Take-Off (FTO); and
- d) Route Forecast.

4.2.2 Forecast information is kept up to date through continuous review and cancelled whenever it cannot be kept under review.

GEN 3.5-4
15 JUL 17



15 JUL 1	AIP South Africa
4.2.3	Terminal aerodrome forecast (TAF)
a)	TAFs valid for up to 30 hours are issued at intervals of 6 hours, with the period of validity beginning atone of the main synoptic hours (00, 06, 12, 18 UTC).
b)	TAFs are filled at approximately two hours before the start of the period of validity. Only one TAF is valid for an aerodrome at any given time.
4.2.4	Landing Forecast (TREND)
TF Th TA	END forecast is used by aircraft within one hour's flying time from the aerodrome. e validity period for a TREND forecast is two hours during which it supersedes the F issued for the same aerodrome.
4.2.5	Forecast for Take-Off (FTO)
Fo ex	recast for take-off is provided for international aerodromes 3 hours prior to the pected time of departure (ETD).
4.2.6	Route Forecast
Ro Jo Air	oute forecast covering domestic and international flight routes is provided by the hannesburg Meteorological Watch Office (MWO) based at O.R. Tambo International port.
a) b) c)	Route forecast is provided in the form of significant weather charts (SIGWX). SIGWX for international flight routes is issued by the WAFC – London. SIGWX charts for domestic flight routes is issued by the MWO.
5 No	tification required from operators
5.1 F and of	Pre-flight information for operators (i.e. briefing, consultancy, flight documentation her meteorological information) is provided upon request.
5.2 T	The minimum amount of advance notice must for pre-flight information should be

at least 6 hours before the expected time of departure.

AMDT 3/17



6 Aircraft reports

6.1 The Aviation Weather Centre is the designated meteorological watch office for collection of air-reports received by voice communications within the following FIR/UIR:

- a) Johannesburg FIR;
- b) Cape Town FIR; and
- c) Johannesburg Oceanic FIR.

6.2 Routine aircraft observations must be made (every 15 minutes) during en-route and climb-out phases of the flight and by flights equipped with air-ground data link.

6.3 Special and other non-routine aircraft observations must be made during all phases of the flight when the following conditions are observed:

- a) moderate or severe turbulence; or
- b) moderate or severe icing; or
- c) severe mountain wave; or
- d) thunderstorms, without hail, that are obscured, embedded, widespread or in squall lines; or
- e) thunderstorms, with hail, that are obscured, embedded, widespread or in squall lines; or
- f) heavy duststorm or heavy sandstorm; or
- g) volcanic ash cloud; or
- h) pre-eruption volcanic activity or a volcanic eruption.

6.4 Routine aircraft observations (AIREPs) reported by voice communication are required at the ATS collection centre/points described in Table GEN 3.5 – 2

6.5 Upon receipt of the air-reports, the ATS units relays them without delay to the associated MWO for preparation of SIGMET and or AIRMET. Air-reports are also relayed to the WAFC.

6.6 The means by which air-reports are reported and relayed must be consistent with the provisions in Table GEN 3.5 - 3.

7 VOLMET service

VOLMET service is provided by ATS units in accordance with the provisions of ICAO Annex 11.

GEN 3.5-6 15 JUL 17



8 SIGMET and AIRMET service

8.1 General

8.1.1 SIGMET and AIRMET is provided by the designated MWO.

8.1.2 The MWO maintains a 24 hour meteorological watch over three flight information regions (Table GEN 3.5 - 4 and GEN 3.5 - 5) and issue SIGMET and AIRMET in accordance with the provisions of ICAO Annex 3.

8.1.3 SIGMET for volcanic ash and tropical cyclones are based on the advisory information received from the volcanic ash advisory centre (VAAC) and tropical cyclone advisory centre (TCAC) respectively.

Contact details:

Aviation Weather Centre

Office NL61, Lower Roof (3rd floor) O.R. Tambo International Airport Postal address: O.R. Tambo International Airport P.O. Box 1194 O.R. Tambo International Airport 1627

Tel: +27 11 390 9329 Fax: +27 11 390 9332

Website: https://aviation.weathersa.co.za

Email: fajsfc@weathersa.co.za fajs@weathersa.co.za

AMDT 3/17



GEN 3.5-7 15 JUL 17

8.1.4 SIGMET is issued whenever the following weather conditions occur or are expected to occur:

- a) thunderstorm
- b) tropical cyclone
- c) turbulence
- d) icing
- e) mountain wave
- f) duststorm
- g) sandstorm
- h) volcanic ash
- i) radioactive cloud

8.1.5 The criteria for issuance of SIGMET is consistent with the provisions of ICAO Annex 3.

8.1.6 AIRMET is issued whenever the following weather conditions occur and in accordance with the criteria defined in ICAO Annex 3:

- a) surface wind speed
- b) surface visibility
- c) thunderstorms
- d) mountain obscuration
- e) cloud
- f) icing
- g) turbulence
- h) mountain wave

8.1.7 SIGMET and AIRMET are cancelled whenever the observed or expected weather information no longer exist or is no longer expected.

8.2 Dissemination of SIGMET/AIRMET

8.2.1 SIGMET and AIRMET information in both text and graphical formats are available on AFTN (**FAPRYMYX**) and also on the website: https://aviation.weathersa.co.za

GEN 3.5-8 15 JUL 17



8.2.2 SIGMET for volcanic ash and tropical cyclone is based on advisory information prepared and issued by the Volcanic Ash Advisory Centre (VAAC) and Tropical Cyclone Advisory Centre (TCAC).

8.2.3 SIGMET/AIRMET information to aircraft in flight is disseminated by the ATS unit responsible for the FIR for which the SIGMET/AIRMET is issued.

9 Aerodrome warnings

9.1 Aerodrome warning for the protection of parked aircraft, aerodrome facilities and services are issued by the designated aerodrome meteorological offices whenever one of the following weather phenomenon occurs or expected to occur at an aerodrome:

- a) strong surface winds and gusts
- b) thunderstorm
- c) hail
- d) frost
- e) hoar frost or rime
- f) snow
- g) freezing precipitation

9.2 The aerodrome meteorological office keeps aerodrome warnings under continuous review and cancels the warnings whenever conditions are no longer occurring or no longer expected to occur at an aerodrome.

Note 1:The warning is designated as "storm warning" and will be issued when the mean speed of the surface wind is expected to exceed 34 kt (Beaufort Scale 8) or when gusts in excess of 41 kt (Beaufort Scale 9) are expected to occur.

Note 2: A "frost warning" will be issued when the air temperature is expected to fall below 0°C on those dates when protective measures have generally not yet been taken and also when a substantial deposit of hoarfrost, e.g. on wing surfaces, is expected.

AMDT 3/17



10 Other automated meteorological service (Refer to Table GEN 3.5 – 6)

Table GEN 3.5 - 1

List of meteorological observations and reports

Name of station/ Location indicator	Frequency of observations	Type of report	Hours of operation	Climatological tables
1	2	3	5	6
BLOEMFONTEIN/ Bram Fischer FABL	Routine half hourly plus special observations AUTO: 18:00 – 23:30	MET REPORT, METAR, SPECI, TREND	03:00 – 18:00	AVBL
CAPE TOWN/ Cape Town FACT	Routine half hourly (02:00 -18:30) plus special observations and hourly (19:00-02:00)	MET REPORT, METAR, SPECI, TREND	H24	AVBL
DURBAN/ King Shaka FALE	Routine half hourly plus special observations AUTO: NIL	MET REPORT, METAR, SPECI, TREND	H24	AVBL
JOHANNESBURG/ O.R. Tambo FAOR	Routine half hourly plus special observations AUTO: NIL	MET REPORT, METAR, SPECI, TREND	H24	AVBL
LANSERIA/ Lanseria FALA	Routine hourly plus spe- cial observations AUTO: 21:00 – 02:00	MET REPORT, METAR, SPECI, TREND	03:00 - 20:00	AVBL
NELSPRUIT/ Kruger Mpumalanga FAKN	Routine hourly plus spe- cial observations AUTO: 19:00 – 02:00	METAR, SPECI, TREND	03:00 – 18:00	AVBL
PILANESBURG/ Pilanesburg FAPN	Routine hourly observations	AUTO METAR	-	AVBL
POLOKWANE/ Polokwane FAPP	Routine hourly plus special observations AUTO: 19:00 – 02:00	METAR, SPECI, TREND	03:00 – 18:00	AVBL
PORT ELIZABETH/ Chief Dawid Stuurman FAPE	Routine half hourly (02:00 – 18:30) & Hourly (19:00 – 01:00) plus special observations	MET REPORT, METAR, SPECI, TREND	H24	AVBL
	AUTO: NIL			

Civil Aviation Authority



GEN 3.5-10 15 OCT 22

Name of station/ Location indicator	Frequency of observations	Type of report	Hours of operation	Climatological tables
1	2	3	5	6
UPINGTON/ Upington FAUP	Routine hourly plus special observations AUTO: 19:00 – 22:00	METAR, SPECI, TREND	23:00 - 18:00	AVBL

Table GEN 3.5 - 2

ATS collection centre/points

AIREP Collection centre	Collection points/area
Johannesburg	Johannesburg
	Bloemfontein
	Cape Town
	Beira
	Gaborone
	Routes
Johannesburg (routes	Harare
	Manzini
	Lilongwe
	Lusaka
	Maputo
	Maseru
	Windhoek

Table GEN 3.5 - 3

Relating of air-reports by ATS units

Type of report	Means of reporting	Relayed to:
Special air-reports	Voice communication	MWO ¹
Routine and special air-reports	Data link	MWO and WAFC ²
¹ Aviation Weather Centre. ² WAFC London.		



			Table C	GEN	3.5 - 4			
		Flig	ht Informat	ion	Region	served		
Name of MWO	Hou Serv	rs of ice	FIRs served		ICAO ID	SIGME	т	AIRMET (valid 4 hrs)
Aviation Weather	H24		Johannesburg	FIR	FAJA	AVBL		AVBL
Centre			Cape Town FIF	२	FACA	AVBL		AVBL
			Johannesburg Oceanic FIR		FAJO	AVBL		-
	I	ssuance	e and valid	ity	of SIGMI	ET/AIRN	ИЕТ	
Responsible MV	ible MWO Type of information		Tin sta	ne of issue rt of validi	e (before ty)	Valio	lity (hrs)	
Aviation Weather C	iation Weather Centre AIRMET		up t	:0 4		up to	4	
SIGMET ³ Volcanic A SIGMET		SIGMET ³		up t	io 4		up to	4
		Volcanic A SIGMET	sh	up t	io 12		up to	6
Tropical Cyclone SIGMET			up t	to 12		up to	6	
³ SIGMET for any o	other w	veather phe	nomenon except	t trop	ical cyclone a	and volcani	c ash.	

Civil Aviation Authority

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GEN 3.5-12 15 JUL 17



Table GEN 3.5 - 6Other automated meteorological services					
Service name	Information available	Area, route and aerodrome coverage	Contact details		
Meteorological briefing service (oral and written information)	OPMET; satellite imagery; METAR QNH Analysis; Webcams, Graphical SIGMET/AIRMET, International fixed time prognostic charts (FL250 – FL630)	Africa, Africa/Asia, Asia, Australia, Europe, Middle East, North America, South America	Aviation Weather Centre Tel: +27 11 390 9329 Fax:+27 11 390 9332 Website: https://aviation.weathersa.co.za		
	Domestic fixed time prognostic charts: * Additional (surface to FL100) * Low-level (up to FL180) * High level (above FL180)	Johannesburg FIR, Cape Town FIR and most parts of Southern Africa			



GEN 3.6 SEARCH AND RESCUE

1 Purpose

The purpose of the Search and Rescue (SAR) organization is to provide assistance to aircraft in distress and to search for, provide aid to, and coordinate the rescue of survivors of aircraft accidents and forced landings.

2 Responsible Authority

The Department of Transport is the custodian and champion of Search and Rescue Services in South Africa. It has the overall responsibility for planning, establishing and organ-

isation, staffing, equipping and managing the SAR system in South Africa in collaboration with SASAR.

Search and Rescue services in South Africa are organized in accordance with the International Standards and Recommended Practices of ICAO and operate under the coordinating direction of the South African Search and Rescue Organization (SASAR) which acts on behalf of the Department of Transport as the authority responsible for the application of Annex 12 to the Chicago Convention and to ensure a coordinated and effective Search and Rescue service within the South African Search and Rescue Region.

Any changes, deletions or insertions to any documents in the South African AIP and other regulations, policies or standards involving Search and Rescue in any way, shall be liaised with the SASAR Secretariat and/or SASAR Executive Committee, where applicable for approval before publication.

All Air Traffic Service Units (ATSU's), as delegated by the Department of Transport, are designated SAR alerting posts.

The Aeronautical Rescue Coordination Centre (ARCC) Johannesburg is responsible for the conduct of SAR for missing aircraft, forced landings and aircraft crashes within the Aeronautical SRR under South African jurisdiction.

The ARCC Johannesburg must be alerted by all designated ATSU's to all aircraft in-flight experiencing emergencies within the Aeronautical SRR under South African jurisdiction,

in order to monitor the progress and action with relevant SAR response where required.

Responsible Authority	SASAR Secretariat Department of Transport
Physical Address	Department of Transport 159 Struben Street Pretoria 0001
Postal Address	SASAR Secretariat Department of Transport Private Bag X193 Pretoria 0001
Contact Details	Director: Search and Rescue +27 12 309 3520

Civil Aviation Authority



3 Organisation

SASAR has designated an operational facility namely the Aeronautical Rescue Coordination Centre (ARCC) in the Johannesburg Area Control Centre at OR Tambo International Airport known as the ARCC Johannesburg. It is primarily responsible for coordinating the conduct of SAR Operations within the Aeronautical South African SRR which is under the control of the ARCC Chief.

4 Rescue Coordination Centre

Responsible Organization	ARCC Johannesburg OR Tambo International Airport
Physical Address	ATNS Operational Complex Gate 14 Bonaero Drive Bonaero Park Kempton Park
Postal Address:	ARCC Private Bag X1 Bonaero Park Kempton Park 1622
Contact Details:	ARCC Chief +27 11 928 6432 +27 82 823 8493 arccchief@atns.co.za
24 Hour Alerting	ARCC Duty SMC +27 63 505 4164
Additional 24 Hour Alerting	+27 11 928 6454/5
Standby Contact	ARCC Duty SMC +27 63 505 5485
Email Address	arcc@atns.co.za
Alternate E-mail	sasar.arcc@gmail.com
AFTN	FAORYCYX
GPS Coordinates	260813.0S 281501.7E

4.1 Aeronautical Rescue Sub-Centres (RSC)

Each ATSU within the RSA can be appointed as an RSC on an ad-hoc basis provided they have been trained in SMC Duties.

4.2 Permanent RSCs

All neighboring territories within the Aeronautical SRR are considered permanent RSC's. These units are tasked permanently by the appropriate RCC to carry out certain duties of the RCC or on an ad-hoc basis when required.



GEN 3.6-3 15 JAN 21

Permanent RSC	Location, Address and Contact
Eswatini	Sikhuphe SAR Unit (FDSK) P.O. Box D361 The Gables H126 Eswatini Tel: +268 2333 5000/5248/5249 Fax: +268 2333 5229 AFTN: FDSKZQZX / FDSKZPZX Email: info@eswacaa.co.sz
Lesotho	Maseru RSC P.O. Box 629 Maseru Lesotho Tel: +266 22 350395 Tel: +266 22 350777 Ext. 101 AFTN: FXMMYDYX
Namibia	Eros Airport Aviation Road Olympia Windhoek Tel: +264 61 702070/1 Tel: +264 62 702490 Tel: +264 81 4097684 AFTN: FYHQYCYX

5 Procedures

5.1 Alerting Posts

A designated alerting post shall immediately inform the RCC of an emergency or potential emergency once it becomes aware of it.

The following organizations or institutions are designated as dedicated alerting posts:

ATSUs

Harbor Master's Offices

Coastal Radio Stations

South African Police Service (SAPS)

The Maritime Rescue Coordination Centre (MRCC)

The Aeronautical Rescue Coordination Centre (ARCC)

Any person or element of the SAR Organization, having reason to believe or has been informed that an aircraft is in distress, shall immediately give all available information to the relevant alerting post.

No person shall provide aeronautical search and rescue services except under the authority of SASAR in accordance with the provision of the South African Maritime and Aeronautical Search and Rescue Regulations 2016.



No person must provide search and rescue coordination functions unless appropriately designated and certificated by the Minister and Director-General respectively.

No person must provide on-scene SAR coordination functions unless appointed in that capacity by an RCC.

5.2 Emergency Phases

All ATSUs have been designated as alerting posts and are responsible for the declaration of the appropriate phase.

The relevant SAR Phase shall be declared and the ARCC notified telephonically, immediately when an ATSU is notified of an emergency irrespective of the departure or destination of the aircraft experiencing the emergency.

Three phases of emergency have been established for classifying emergency situations and are declared as follows:

5.2.1 Uncertainty Phase (INCERFA)

A situation wherein uncertainty exists as to the safety of an aircraft and its occupants. This phase will be declared when:

a) Radio contact is lost and not re-established within 15 minutes when radio contact was required.

NOTE: Where an aircraft is equipped with VHF only and continuous radio contact cannot be maintained throughout the flight, the pilot in command should state before departure the reporting point(s) at which overdue action must be taken in the event of non-receipt of the position report, or whether overdue action is required only at destination.

- b) An aircraft is known or believed to be subject to irregular operation i.e. when it is:
- i) Not following the correct track or maintaining the correct flight levels.
- ii) Not in normal communication.
- iii) Unable to use appropriate navigation aids.
- iv) Experiencing navigational difficulties.
- v) Experiencing hazardous weather conditions.
- c) Experiencing impaired operating efficiency/technical difficulties, but not to the extent that the flight cannot be completed.
- d) An aircraft operating on a flight plan stipulating alerting action after a specified time fails to arrive or is not in contact with the ATSU by the time specified in the flight plan and preliminary checks fail to reveal the whereabouts of the aircraft.
- e) An aircraft which is proceeding to an unmanned aerodrome but which is operating on an "overdue action" flight plan, fails to report the arrival to the ATSU specified in the flight plan by the time specified and preliminary checks fail to reveal the whereabouts of the aircraft.
- f) An aircraft is about to make or has made a landing other than a forced landing, where the position is in doubt, on an unprepared surface or on an aerodrome that is operationally unsuitable.
- g) Information is received than an aircraft is missing.



NOTES: The evaluation of other circumstances, e.g. knowledge that the aircraft is experiencing difficulties, renders it advisable to declare the uncertainty phase whether the pilot declares an emergency or not!

5.2.2 Alert Phase (ALERFA)

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

This phase will be declared when:

- a) The attempts made during the uncertainty phase to establish contact with the aircraft or to gain any news from other sources have failed and the aircraft is clearly overdue;
- b) Information has been received which indicates that the operating efficiency of the aircraft for which the uncertainty phase was declared or that of another aircraft has become impaired, but not to the extent that a forced landing is likely;
- c) There is reason to believe that the operation of an aircraft is being interfered with;
- d) The transmission of a PAN-PAN-PAN!
- e) An aircraft is known to be operating in other than normal circumstances, or is LOST and there is reason to believe that in consequence the safe conduct of the flight is in jeopardy.

NOTE: "Other than normal circumstances" may include all or any of the circumstances for which the declaration of INCERFA is required and any circumstances having comparable consequences. The ALERT phase shall be declared whether the pilot declares an emergency or not!

5.2.3 Distress Phase (DETRESFA)

A situation wherein there is reasonable certainty that an aircraft and its occupants are threatened by grave and imminent danger and require immediate assistance or has crashed.

This phase will be declared when:

- Attempts made during the alert phase to establish contact with the aircraft and to gain information through more widespread enquiries have failed and the aircraft is clearly missing and probably in distress;
- b) The fuel on board is considered exhausted or insufficient for the aircraft to reach safety;
- c) Information is received which indicates that the operating efficiency of the aircraft has become impaired to the extent that a forced landing is likely;
- d) Information is received, or it is reasonably certain that the aircraft is about to make or has made a forced landing, or has crashed;
- e) The transmission of MAYDAY-MAYDAY-MAYDAY!
- f) A downed aircraft is inadvertently located as the result of a sighting or of homing on an ELT transmission.



- g) An aircraft which has been given approach or landing instructions at an aerodrome, fails to land within 5 minutes of the expected landing time, and communications cannot be re-established with the aircraft.
- h) An aircraft fails to report after take-off when instructed or expected to do so and communications cannot be re-established before the expiration of 5 minutes.

Notes: Each ATSU is entrusted with the task of alerting services for all aircraft known to it, whether the aircraft is provided with air traffic services or not; and each ATSU serves as a collecting point of all information relating to the state of emergency of an aircraft operating within the FIR concerned.

As a result, an RCC will usually receive notification that an aircraft is, or is considered to be, in a state of emergency from the ATSU with which it is associated.

Time is of the essence and emergencies shall be reported to the Duty SMC immediately.

When the nature of the emergency is such that local rescue facilities are considered to be capable of dealing with the emergency, e.g. in certain incidents occurring at or near an aerodrome where the Aerodrome Emergency Management System or Emergency Response Plan is in force within the 10km radius as published, the ATSU will act as an Aeronautical Sub-Centre and direct the necessary and appropriate search and rescue units to the scene of the accident and notify the ARCC of such actions.

In respect of an aircraft for which no flight plan has been filed, when information that the aircraft is overdue or missing is received from any source, e.g. an ATSU, the aircraft operator, relatives of the pilot, or any other person in such cases the ARCC Duty SMC shall be notified, which will investigate and act according to the information gathered. Gathering of information shall be completed as per the published SAR Regulations.

5.3 Search and Rescue Measures with regards to Flight Plans

- 1) Search and rescue action
 - i) Search and rescue action shall be instituted automatically in respect of: -
 - a) All flights between aerodromes where air traffic services are provided; and
 - b) All flights conducted in controlled airspace, excluding flights crossing an airway at right angles, for which flight plans are filed prior to departure.
 - ii) Search and rescue action shall be instituted in respect of all domestic and international flights to aerodromes where air traffic services are not provided, for which flight plans are filed prior to departure and the pilot-in-command has specifically requested such search and rescue action.
 - iii) Search and rescue action shall be instituted in respect of flights for which flight plans are filed in flight when such action is specifically requested by the pilot-incommand.



- iv) Pilots-in-command of flights for which search, and rescue action has been requested, who fail to comply with the search and rescue requirements, shall be responsible for any costs incurred by the air traffic service unit concerned for the provision of alerting or supporting services.
- 2) The Search and Rescue action referred to in regulation (II) above, will only be instituted after a specific time. Such time should not be less than one hour after the estimated time of arrival at the destination aerodrome and the air traffic services unit to which the arrival notification will be made.
- 3) For flights to be conducted in controlled airspace during a portion of the flight, and then landing at an unmanned aerodrome regulation (i) (b) and (ii) will apply. This means that it is essential for the pilot-in- command to ensure that the ATSU is informed when the flight is leaving or entering controlled airspace, otherwise search and rescue action will be taken on the missed position report whilst in controlled airspace.

e.g. A flight from Cape Town to Victoria West via SLV VOR at flight level 090 requested search and rescue action at destination. This flight will be operating in controlled airspace from Cape Town to SLV VOR (i.e. Cape Town controlled airspace and airway UA405). Should the pilot fail to report at SLV VOR, air traffic control would commence preliminary search and rescue action 5 minutes after the time of the expected report at SLV VOR. Alternatively, if a position report is received at SLV VOR, search and rescue would only be commenced at the time stated in the flight plan at destination if an arrival report or closure of flight plan report has not been received by the ATSU.

If the pilot-in-command of this flight has stated RMK/SARNIL in Field 18 of the flight plan and failed to report at SLV VOR, the responsible ATSU would nevertheless commence preliminary search and rescue action 5 minutes after the time of the expected report at SLV VOR.

- 4) For flights landing at aerodromes where ATSU are in operation, pilots may assume that the ATSU will close the flight plan on arrival at the aerodrome.
- 5) Search and rescue action in respect of missed position reports from aircraft flying in uncontrolled airspace will only be instituted in respect of aircraft which are capable of reporting positions throughout the flight. In this case the action instituted will be similar to that instituted for aircraft flying in controlled airspace. It should be noted, however, that when a flight is bound for an aerodrome where an ATSU is not in operation and the pilot-in-command states SAR/NIL in Field 18 of the flight plan, search and rescue action will not be instituted in respect of missed position reports outside controlled airspace.
- 6) Pilots who request search and rescue are per regulations (ii) and (iii) above assume the responsibility to ensure that an ATSU is informed on completion of, or abandoning, their flight. Search and rescue may be cancelled on R/T by using one of the following R/T phraseologies:

cancel my search and rescue.

Civil Aviation Authority



If the pilot does not receive acknowledgement of his/her message on R/T, he/she must telephone notice of his/her arrival to the ATSU indicated in Field 18 of his/her flight plan before the expiry of the search and rescue time stated on the flight plan.

7) In order to avoid any misunderstanding between pilots and ATSU, Field 18 of the flight plan form must be endorsed as follows: -

i) RMK/SARNML must be indicated when the flight is bound for an aerodrome where an ATSU is in operation. RMK/SARNML must NOT be indicated when the flight is bound for an aerodrome where an ATSU IS NOT in operation.

This type of SAR shall mean the following: -

- a) Search and rescue action will be instituted automatically in the event of a missed position report while the aircraft is flying within controlled airspace and/or in the event of non-arrival at destination.
- b) Search and rescue action will not be provided while the aircraft is flying in uncontrolled airspace, except in an emergency.
- ii) RMK/SARNMLENROUTE may be indicated when the flight is bound for an aerodrome where an ATSU is in operation and the whole or portion of the flight is conducted outside controlled airspace. RMK/SARNMLENROUTE MUST NOT be indicated when the flight is bound for an aerodrome where an ATSU is not in operation. This type of SAR shall mean the following: -

a) Search and rescue action will be instituted automatically in the event of a missed position report while the aircraft is flying within controlled airspace and/or in the event of a non-arrival at destination;

b) Search and rescue action will be instituted in the event of a missed position report while the aircraft is flying in uncontrolled airspace;

c) When requesting this type of SAR, the pilot-in-command of the aircraft must be reasonably certain that it will be possible to make position reports throughout the flight and that the required reports will be made.

 iii) SAR after a specified time – this type of SAR may be indicated when the flight is bound for an aerodrome where an ATSU is not in operation and shall be shown as follows: -

SAR/ (air traffic services unit to be notified of arrival) (time by which notification of arrival will be made).

e.g. RMK/SARFABL0930. – meaning that BRAM FISCHER International Airport will be notified of ARRIVAL by 0930 (UTC).

It shall mean the following: -

a) Search and rescue action will be instituted automatically in the event of a missed position report while the aircraft is flying within controlled airspace.

b) Search and rescue action will be instituted automatically in the event of the ATSU which is to be notified of arrival not receiving the arrival notification by the time specified in the flight plan;



c) Search and rescue action will NOT be provided while the aircraft is flying in uncontrolled airspace, except in an emergency.

iv) RMK/SARNIL – used when search and rescue action is not required.

RMK/SARNIL may only be used when the flight is bound for an aerodrome where an ATSU is NOT in operation. In this case search and rescue action will be instituted automatically in the event of a missed position report while the aircraft is flying within controlled airspace. When the aircraft has reported leaving controlled airspace no further search and rescue action will be provided, except in an emergency.

v) SAR AFTER A SPECIFIED hour/s from ETA (EXPECTED TIME OF ARRIVAL) -

This type of SAR may be indicated when the flight is bound for an aerodrome where an ATSU is not in operation and shall be shown as follows:

SAR/ (air traffic services unit to be notified of arrival) (number of hours by which notification of arrival will be from the ETA).

E.g. RMK/SARFAORETA1HR

RMK/SARFALAETA2HR

It shall mean the following:

a) Search and rescue action will be instituted automatically in the event of a missed position report while the aircraft is flying within controlled airspace.

b) Search and rescue action will be instituted automatically in the event of the ATSU which is to be notified of the arrival, not receiving the arrival notification by the ETA of the aircraft plus the stipulated hour/s.

c) Search and rescue action will NOT be provided while the aircraft is flying in uncontrolled airspace, except in an emergency.

vi) SAR EN-ROUTE AFTER SPECIFIED TIME -

This type of SAR may be indicated when the flight is bound for an aerodrome where an Air Traffic Service is not in operation, and will be shown as follows:

SAR/ (Air Traffic Services Unit to be notified of arrival) (time by which notification of arrival will me made en-route).

e.g. SARENROUTEFABL0930.

It shall mean the following: -

- a) Search and Rescue action will be instituted automatically in the event of a missed position report while flying in controlled airspace;
- b) Search and Rescue action will be instituted automatically in the event of the Air Traffic Services Unit, which is to be notified of arrival not receiving the arrival notification by the time specified in the flight plan;
- c) Search and Rescue action will be instituted in the event of a missed position report while the aircraft if flying in uncontrolled airspace;
- d) When requesting this type of SAR, the pilot-in-command of the aircraft must be reasonable certain that it will be possible to make position reports throughout the flight and that the required reports will be made.



8) In this context an Air Traffic Services Unit shall mean a Unit manned by personnel authorized by the:

SACAA or South African National Defence Force (South African Air Force).

9) The attention of pilots is drawn to CAR 91.03.4 of the Rules of the Air, and General Operating Rules, regarding the constitution of a flight plan. It should be noted that if the data, as laid down in the CAR's, is not submitted, search and rescue action may not be provided. Pilots-in-command should therefore ensure that all relevant data is submitted to the appropriate ATSU, particularly when filing an in-flight flight plan.

10) Pilots are further reminded that a flight plan filed before departure will not be activated unless a time of departure has been received by an ATSU. When departing from an aerodrome where an ATSU is in operation it may be assumed that the flight plan will be activated by that unit. Conversely, when departing from an aerodrome where an ATSU is not in operation the pilot-in-command must ensure that an ATSU receives the time of departure.

5.3.1 Activation of Flight Plan with Search and Rescue Requirement

Search and rescue can only be instituted when a valid filed flight plan has been activated.

Activation of a valid flight plan search and rescue action will be automatic in the following instances:

- a) Departure signal via AFTN and/or voice liaison between ATSU's,
- b) Voice communication with ATSU's,

When the flight is of such a nature where voice communication with any ATSU will prove difficult, the following methods to activate a valid flight plan shall apply:

- 1) Notifying an ATSU by means of a telephone call requesting that the flight plan be activated.
- 2) Relay via another aircraft on frequency.

Cancellation of Flight Plan Search and Rescue

Due to the high costs and man hours involved in any Search and Rescue action, it is imperative that pilots/operators cancel Search and Rescue with the ATSU within the stipulated time as requested on the flight plan.

Any overdue SAR which turns out to be a false operation places unnecessary strain on limited resources.

This cancellation can be done by calling the ATSU which has been stipulated on the filed FPL or on Frequency or phoning an ATSU which has been stipulated on the filed FPL after landing.

The ATSU receiving this cancellation shall be responsible for:

a) Contacting the ATSU with whom SAR was filed on the flight plan (if different from the one receiving the notification) and advise them of the aircraft's safe arrival upon which the necessary Occurrence Log entry shall be made.


b) If the ATSU/ARCC is unsure if the pilot has cancelled his/her SAR: the ATSU/ARCC to contact the ATSU which has been nominated for SAR on the filed FPL.

If no cancellation was recorded, PRE-COMMS should begin.

c) If an 'ARR' message is received on the AIMU Flight planning queue, staff are to ACCEPT the ARR message. No further action is required by the AIMU.

5.4 Aircraft subject to an Emergency

An aircraft subject to an emergency should notify the appropriate ATSU without hesitation to ensure that effective action may be taken without delay. In this respect remember the "Five Golden Rules":

CONFESS your predicament to any ATSU to enable the organization to assist while there is still time.

COMMUNICATE with the ATSU, passing as much of the pertinent information in the first message.

CLIMB, if possible for improved direction-finding and radar coverage.

COMPLY with instructions and advice given and assist the ATSU to control communication on the frequency in use. Do not change frequency unless it is absolutely necessary.

CONSERVE - slow down and select power for maximum endurance.

5.5 Aircraft observing another aircraft in Distress

An aircraft observing another aircraft in distress, making a crash-landing, ditching, aircrew ejecting or bailing-out, or a dinghy, shall (where possible) take action as follows:

Keep the aircraft or personnel in distress in sight.

If at sea and a surface vessel is in sight and can be contacted without losing sight of the distressed personnel, guide it to the position;

If the aircraft in distress has not been able to transmit a distress signal, or if the captain of the aircraft observing the distress believes that further help is needed, transmit a message containing all relevant information to the controlling ground station on the frequency in use;

Obtain as accurate a position as possible by the best available means and transmit if necessary, the correct position to the controlling ground station;

Carry out instructions from the controlling ground station, or remain in position until instructed to return, or until circumstances compel departure.

5.6 Emergency Communication from Aircraft

Emergency communications from aircraft are divided into two categories as follows:

Distress: covers aircraft threatened by grave and imminent danger and in need of immediate assistance.



GEN 3.6-12 15 JUL 23

Urgency: identifies a very urgent message concerning the safety of an aircraft.

5.7 Distress Communication

The distress message sent out by an aircraft must be preceded by the distress signal MAYDAY preferably spoken three times and should:

Be transmitted on the air/ground frequency in use at that time.

Consist of as many as possible of the following elements, spoken directly and, if possible, in the following order:

The name of the station addressed (time and circumstances permitting)

The identification of the aircraft.

The nature of the distress condition.

The intention of the pilot in command.

Present position, level (flight level, altitude as appropriate) and heading.

Any other useful information.

5.7.1 Aircraft Intercepting a Distress Call

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 on the transmission;
- d) Inform the appropriate RCC or ATSU 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;
- f) Listen out on the frequency used by the distress aircraft;
- g) If no acknowledgement of the distress message is heard, call the aircraft in distress and acknowledge receipt.

5.7.2 Progress Reports from aircraft subject to an Emergency

After declaring an emergency, aircraft in flight should endeavor to maintain contact with an ATSU and should transmit progress reports as frequently as possible.

Before changing frequency, aircraft should advise the ground station of the frequency to which it intends changing. If the aircraft is not in contact with an ATSU, this information should be broadcast before the frequency change is made.

5.8 Urgency Call

In addition to being preceded by the radiotelephony urgency signal PAN, preferably spoken three times, the urgency message to be sent by an aircraft reporting an urgency condition must:

Be on the air-ground frequency in use at the time.



Consist of as many as required of the elements spoken distinctly and, if possible, in the following order:

Name of the station addressed (time and circumstances permitting)

Identification of the aircraft.

Nature of the urgency condition.

Intention of the pilot in command.

Present position, level (flight level, altitude as appropriate) and heading.

Any other useful information.

5.9 Action after crashed or forced Landing

The pilot of an aircraft which has crashed or force landed shall use his own discretion on whether to remain at the aircraft or attempt to reach help.

Factors which could influence this decision:

If the aircraft was operating on an SAR action flight plan and the aircraft has crashed or force landed in a desert area, a swamp area or a very sparsely populated area, it is advisable to remain at the aircraft and take such of the following action as may be appropriate or possible.

Take steps to conserve the strength of survivors, e.g. avoid unnecessary exertion in the sun.

Conserve available water and food supplies.

If a usable radio transmitter is available, make transmissions using the distress procedure, giving the aircraft's position and any other pertinent data, at H + 15 and H + 45. These transmissions should be kept as short as possible to conserve battery power. (H + 15 and H + 45 are 15 and 45 minutes past the hour, e.g. 07:15 and 07:45, 12:15, 12:45 etc.)

If flares are carried they should be conserved for use when search aircraft, ships or ground search parties are known to be in the vicinity. The danger of falling flares starting veld and bush fires must be borne in mind before using the flares.

If possible, place aircraft in a conspicuous position. Engine cowls, doors or other removable parts of the aircraft should be removed, polished-up and placed where they will reflect the rays of the sun. Fine sand can be used to remove paint from metal surfaces.

Light smoke fires.

If the aircraft has crashed or force landed in a settled area where help is near at hand it is better to leave the aircraft to look for help. In such cases SAP stations will render such assistance as they can.

The pilot should inform the unit he has called upon for help that he is operating on an "overdue action" flight plan and ask them to advise the nearest ATSU of his whereabouts.



5.10 Pilot Notification

The efficacy of the SAR action by ATSU's, ATCC's or the ARCC is directly related to the amount and accuracy of details notified in the reporting of an emergency and to any position reported in flight. When reporting in-flight emergencies or difficulties, early advice and the degree of apprehension felt by the pilot will enhance the assistance which can be provided by the ground organization.

When a pilot lands at a place other than the aerodrome included in the flight plan, the pilot should report the fact to the nearest ATSU or the ARCC.

5.11 Participation in Searches

No person shall participate in any SAR Operation without a formal tasking from the ARCC.

Search aircraft shall conduct their flights in accordance with Search Mission Coordinators (SMC's) instructions.

All tracks flown are to be carefully recorded and any portions of the assigned area which were not effectively searched due to fog, rain, etc., shall be recorded and brought to the attention of the SMC.

All aircraft participating in a SAR Operation shall be identified by a "RESCUE" callsign allocated to them by the designated SMC.

5.12 Flights into SAR Operational Areas

Aircraft may enter an area in which SAR operations are in progress, and which has been promulgated by Class 1 NOTAM, only with the express permission of the SMC in charge of a SAR operation.

All flights into, in or through such SAR areas shall be subject to the direction of the responsible RCC.

5.13 Assistance offered for SAR Operations

Private aircraft owners/operators willing to support the ARCC during SAR operations are to send an email to the ARCC indicating their willingness to assist. The information will be entered into a volunteer database.

For active search assistance, Private aircraft owners/operators shall be notified to report to the ARCC and may only proceed when they are formally tasked by the ARCC.

6 Emergency Locator Transmitter (ELT)

6.1 General

The essence of a successful SAR operation is the speed with which it can be accomplished. In each incident the SAR organisation will always assume that there are survivors who need help and whose chances of survival diminish with time. ELTs facilitate rapid location of a distress incident by day and night.



These battery operated radio transmitters emit a radio signal modulated by a distinctive downward swept audio tone. ELT's operate on 406 MHz for detection by the COSPAS-SARSAT satellite system and have a 121.5 MHz homing signal capability.

Note: While the installation and use of automatic ELT's saves lives, improper use will lead to false alarms and a resultant strain on scarce SAR resources.

н		
Į	RESPONSIBLE ORGANIZATION	LOCATION, ADDRESS AND CONTACT
I	ASMCC	Telkom maritime services (South Africa Mission Control Centre)
		Postal Address: Private Bag X1 Milnerton 7435
I	24 Hour alerting	+27 21551 2617
I	Additional 24 Hour alerting	+27 21 552 9752
l	E-mail	maritimeradio@ixmail.co.za (no attachment accepted)
I	Alternate Email	maritimeradio@telkom.co.za
I	AFTN	FACTYCYX

6.2 Monitoring 121.5MHZ

Pilots should monitor 121.5MHz before engine start and after shutdown, however aircraft on long over-water flights, or on flights over designated areas over which the carriage of an emergency locator transmitter (ELT) is required, shall continuously guard the VHF emergency frequency 121.5 MHz, except for those periods when aircraft are carrying out communications on other VHF channels or when airborne equipment limitations or cockpit duties do not permit simultaneous guarding of two channels.

Reception of 121,5Mhz transmissions must be reported to Air Traffic Services (ATS) or the ARCC immediately.

6.3 Inadvertent Activations

6.3.1 Inadvertent activation of ELTs has occurred on numerous occasions in South Africa. It can occur as a result of hard landing and accidental activation during aircraft servicing or mishandling.

To detect an inadvertent activation pilots should: prior to engine shut down at the end of each flight, tune the aircraft receiver to 121.5 MHz and listen for transmitted signals; and

If a signal is heard, ensure that their own aircraft's ELT is not operating. If it is found that it has been activated, switch it off and take the action described in 6.3.2.



Note: Maintenance may be required before an automatic activation unit is returned to the armed position.

6.3.2 Any person detecting the inadvertent activation of an ELT must report the activation immediately to the nearest ATS, ASMCC or the ARCC so that any SAR action that may have commenced because of the transmission may be terminated.

6.4 Testing of ELT'S

Operational testing of ELTs is not permitted unless done in a faraday cage. Testing of ELTs is to be done in beacon test mode as described in the beacon instruction manual. Detailed ELT testing procedures can be found on the COSPAS-SARSAT website: https://cospas-sarsat.int

6.5 PLBs used in Aviation

PLBs must not be used to substitute mandatory ELT carriage requirements where applicable. Owners and operators of PLBs are to be mindful of the limitations of the PLBs when used in an aviation environment. Owners, operators or crew of an aircraft utilizing PLBs in the aviation environment are to ensure that the beacons are registered correctly and are COSPAS-SARSAT type approved.

6.6 Other Emergency Trackers

Although the ARCC does not monitor other emergency tracking devices, users shall make sure that the people or companies tracking them should know to notify the ARCC immediately when an emergency is reported.

6.7 Beacon Registration

All owners and operators shall comply with the ELT regulatory provisions as contained in the South African Beacon Emergency regulations.

NOTE: Registering of an aircraft does not automatically register the ELT and change of ownership on an aircraft does not automatically change the ELT information. ELT registrations is a separate registration that must be done in terms of the relevant registration regulations.

6.8 COSPAS-SARSAT

6.8.1 General

The COSPAS-SARSAT System provides distress alert and location information to search and rescue (SAR) services throughout the world for maritime, aviation and land users in distress.

The System is comprised of:

Satellites in low-altitude Earth orbit (LEOSAR), medium-earth orbit (MEOSAR) and geostationary orbit (GEOSAR) that process and/or relay signals transmitted by distress beacons.

Ground receiving stations, called "local user terminals" (LUTs), which process the satellite signals to locate the beacon.

Mission control centers (MCCs) that distribute the distress alert information to SAR authorities and RCC's.

COSPAS-SARSAT operates on 406.00 MHz; location accuracy is normally better than 5 km through the polar orbiting satellites, whereas the geostationary satellites require position information to be included in the ELT alert transmission. Where this position is input from onboard navigation systems, the position accuracy is usually better than 1 km.

Satellite reception and processing of legacy analogue-technology 121.5 MHz beacon signals ended on 1 February 2009. 121.5MHz signals transmitted by ELT's are only used for homing.

6.9 SRRs

6.9.1 Aeronautical SRR

The Aeronautical SRR covers the continental area of the sovereign territory of the Republic of South Africa, Namibia, Eswatini and Lesotho and associated flight information regions.

The South African Aeronautical area of responsibility is the area defined by the following points:

a) From a point at 200000.00S 0100000.00W along a straight line to a point at 180000.00S 0050000.00W,

b) Thence along a straight line to a point at 180000.00S 0100000.00E,

c) Thence along a straight line to the point where the international boundary between Namibia and Angola meet at the coast at 171500.00S 0114500.00E,

d) Thence East proceeding along the international boundaries between Namibia and Angola to a point at 175700.00S 0210000.00E,

e) Thence East along the international boundaries between Namibia, Angola, and Zambia to a point at where the international boundaries of Zambia, Zimbabwe and Botswana converge at 174730.00S 0251530.00E,

f) Thence West along the Botswana and Namibia international boundary to a point at 181930.00S 0210000.00E,

g) Thence South along the Botswana and Namibia international boundary to a point at 244600.00S 0200000.00E,

h) Thence South East along the South Africa and Botswana international boundaries to a point at 264927.00S 0210136.00E,

i) Thence East along the South Africa and Botswana, South Africa and Zimbabwe, South Africa and Mozambique, and Mozambique and Eswatini international boundary to a point at 265024.88S 0320805.29E,

j) Thence East along the South Africa and Mozambique international boundary to a point at 265030.00S 0325350.00E,





k) Thence along a straight line to a point at 275000.00S 0350000.00E,

I) Thence along a straight line to a point at 300000.00S 0400000.00E,

m) Thence along a straight line to a point at 300000.00S 0570000.00E,

n) Thence along a straight line to a point at 450000.00S 0570000.00E,

o) Thence along a straight line to a point at 450000.00S 0750000.00E,

p) Thence along a straight line to a point at 900000.00S 0450000.00E (South Pole),

q) Thence along a straight line back to the starting point at 200000.00S 0100000.00W.

6.9.2 MARITIME

The Maritime SRR covers the sea area bordering the continental areas above, commencing at the position where the international borders between Namibia and Angola coincide on the coast proceeding in a Westerly direction to:

18S 10W,

Then to the South Pole,

Then to 50S 75E,

Then to 50S 45E,

Then to 30S 40E,

Then to 26,5S 40E and

Then to the position where the international border between RSA and Mozambique coincide on the coast (26.5S 35E).

6.10 Special Events

Emergency response plans for aviation events involving an increase of flight activity, excluding the Airfield Emergency Management System (AEMS) outside the 10km radius of an airfield, must be forwarded to the ARCC, as these events have a greater risk of potential SAR operations.

The sharing of AEMS for all South African Airfields with the ARCC is mandatory in terms of South African Law.

7 Search and Rescue Signals

The search and Rescue Signals to be used are those prescribed in Annexure B to the Rules of the Air, Air Traffic Services, Search and Rescue and Overflight Regulations, 1975, which are identical to those contained in appendix "A" to Annex 12 to the Convention on International Civil Aviation.

Ground/Air Emergency signalling codes

The following codes are the internationally accepted codes for survivors to use to communicate with aircraft.



GEN 3.6-19 15 OCT 24

No.	Message	Code symbol
1	Require assistance	\sim
2	Require medical assistance	×
3	No or Negative	N
4	Yes or affirmative	Ý
5	Proceeding in this direction	▲

The following code will be used by rescue units to communicate with aircraft when no other means of communication exists.

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.	$ X \times $
5	Have divided into 2 groups each proceeding in direction indicated	
6	Information received that aircraft is in this direction.	\rightarrow \rightarrow
7	Nothing found. Will continue to search	NN

Note:

All FLT where the FLW types of SAR have been REQ:

1. SAR AFT a specified time: example (RMK/SARFAOR0930)

2. SAR AFT specified HR FM ETA: example (RMK/SARFAORETA1HR)

3. SAR AFT specified time en-route: example (RMK/SARFAOR0930ENROUTE),

Pilots will include a cellphone NR as an AFT HR CTC. This is to assist the aeronautical rescue coordination centre (ARCC) when SAR is overdue AFT office HR.

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GEN 4.1-1 15 JUL 19

GEN 4 CHARGES FOR AERODROMES/HELIPORTS AND AIR NAVIGATION SERVICES GEN 4.1 AERODROME/HELIPORT CHARGES

For latest charges please refer to applicable Government Gazette.

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GEN 4.2 AIR NAVIGATION SERVICES CHARGES

For latest charges please refer to applicable Government Gazette.

1 VSAT Charges

1.1 IATA CLEARING HOUSE (ICH) Members

Under the authority of the Minister of Transport, effective 19 April 2001, all Southern African Development Community (SADC) VSAT network charges attributable to South Africa will be billed and collected by the International Air Transport Association (IATA) on behalf of Air Traffic and Navigation Services (ATNS) SOC LTD of South Africa (for all ICH Member Airlines only), which has been designated the agent of South Africa with respect to the VSAT network at the following:

International Air Transport Association (IATA), Route de Laeroport 33, P.O. Box 416, CH-1215 Geneva 15 Airport, Switzerland. Facsimile +41 (22) 799-2678 AFTN: LSGGIATA SITA: GVALDXB TELEX: 415586

1.2 Non-IATA Members

Under the Authority of the Minister of Transport effective 19 April 2001, all Southern African Development Community (SADC) VSAT Network charges attributed to South Africa on NON-IATA MEMBERS, will be billed and collected by Air Traffic and Navigation Services (ATNS) SOC LTD South Africa with respect to the VSAT Network at the following:

Air Traffic and Navigation Services SOC Limited Private Bag X15 Kempton Park, 1620 Facsimile +27 11 607 1570

1.3 Using the FIR crossing charge in SADC VSAT equipped States, the FIR crossing charge denominated in United States Dollars (USD) was recently reviewed and will be effective from 1 June 2010, as follows:

The flat rate charge per FIR crossing will be 9.60 US Dollars. FIR crossing charge per flight, will be payable from the effective date until further notice. This charge will be revised on a regular basis in consultation with IATA and other representative user groups depending on changes in operating costs, number of additional remote sites, aircraft movements, and other variable cost elements. NOTAM will also be issued by other States / service providers.

2 SADC VSAT invoicing and Payment Advice

2.1 The Southern African Development Community (SADC) Very Small Aperture Terminal (VSAT) charge is incurred when flights cross international Flight Information Region (FIR) boundaries or international borders of States, where the air traffic control centers are equipped with SADC VSAT satellite communications system. The States



currently equipped with VSAT are: Angola, Botswana, Democratic Republic of Congo, Lesotho, Malawi, Mauritius, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe, Madagascar, Burundi and Rwanda.

2.2 Payment terms are 30(thirty) days from the invoice date. Failure to settle accounts within the prescribed period may result in the service being denied which in actual fact means that aircraft/s will be grounded without further notice.

3 Primary Payment Method (for ICH members airlines only)

3.1 All IATA CLEARING HOUSE (ICH) member airline invoices must be settled in USD currency directly to the International Air Transport Association (IATA) to the following bank account:

United Bank of Switzerland Swift: UBSWCHZH12A For IATA USD Bank A/C No. 332.208.53K (Rubrique ATC USD) 8 rue du Rhône - 1211 Geneva 2 Depot Switzerland

3.2 All NON-IATA AIRLINES to settle directly to ATNS Bank as per point 4 Other payments Options

Important: Please quote the invoice reference number (as printed on the invoice) on the back of the cheque or as a bank transfer reference.

4 Other Payment options.

To facilitate payment ATNS has introduced two alternative methods for payments,

a) Payment Option one - Direct to ATNS Soc Ltd (Credit Card).

Payments for invoices for SADC VSAT charges portion only, by VISA or MasterCard credit card. The credit card will be debited with the South African Rand equivalent of the US Dollar amount authorized. The exchange rate used for determining the Rand equivalent will be the Rand/US Dollar exchange rate ruling on the day of receipt by ATNS of the authorization. Please ensure that all fields are completed correctly to ensure that the correct credit card account is debited. This form should be faxed to ATNS Soc Ltd who will debit the credit card.

See attached form.

b) Payment Option two - Direct to ATNS Soc Ltd (Direct deposits)

For invoices, payment for the SADC VSAT portion only of the invoice may be made in ZAR (South African Rand) to the account of Air Traffic and Navigation Services Soc Ltd (ATNS) in South Africa. The Bank account details are:

Account Name: Air Traffic and Navigation Services SOC LTD - VSAT Current Account (ZAR)

BANK: FirstRand Bank Ltd BRANCH: RMB Corporate Banking Johannesburg BRANCH CODE: 255005 ACCOUNT Number: 62693726526 SWIFT CODE: FIRNZAJJ



Important: The exchange rate to be used in determining the Rand equivalent of the US Dollar amount invoiced is the month end Average rate on the date of the invoice. The rate to be used for each invoice will be printed on the SADC VSAT movement / data sheet attached to the invoice.

Please quote the invoice reference number on the deposit slip and fax it to ATNS Soc Ltd, Fax No. +27 11 607 1570

5 Payment options for SADC VSAT CHARGES for Non-IATA members as follows:

a) Payments by Credit Card (please complete attached form)

b) Payments by direct deposits (see banking details as per paragraph 4(b) above) OTHER PAYMENT OPTIONS FOR SADC VSAT CHARGES

ALL OTHER CHARGES MUST BE PAID TO IATA, GENEVA

OPTION 1

If your company wishes to settle charges by credit card payment to ATNS Soc Ltd. in South Africa, please complete the form below - Please complete all the fields below:

Cor Crec	Company Name:Company Tel no:															
Last	_ast 3 digits at the back of your card (CVV)															
Expi	res E	End]													
										Ma Dir	nsterca ners C	ard Iub	/	/ISA Amex		

Invoice Reference

GEN 4.2-4

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				Tota	Total Amount Authorised							USD		-		с	
А	Т	С	-				-				-		USD		-		с
A	Т	С	-				-				-		USD		-		с
A	Т	С	-				-				-		USD		-		с
A	Т	С	-				-				-		USD		-		с

I hereby authorise ATNS Soc Ltd. to debit the above credit card account in the authorised amount. Kindly make a copy of the back and front of the credit card and fax together with this form.

..... Authorized Signature

..... Date

AIP South Africa

..... Name (Please Print)

Kindly fax this form to: ATNS Soc Ltd. (Attn: VSAT DEBTOR or the SUPERVISOR)

Fax: + 27 11 607 1570

If you have any questions, please call us on:

Tel: + 27 11 607 1148/1168/1217/1220/1275 (direct numbers)

+ 27 11 607 1000 (switchboard)



OPTION 2

If your company wishes to settle SADC VSAT in ZAR (South African Rand) to the account of ATNS Soc Ltd. in South Africa, please credit the FLW bank account. FirstRand Bank Ltd, RMB Corporate Banking Johannesburg Branch, Branch code no. 255005, Account no. 62693726526, Swift code. FIRNZAJJ, Beneficiary - ATNS Soc Ltd.

Please quote the IATA Invoice Reference to help ATNS identify your payment.

Please advise VSAT DEBTORS or SUPERVISOR - ATNS of your payment (contact details above). The exchange rate to be used for Option Two is printed on the SADC VSAT movement sheet attached to the IATA invoice. (Change to exchange rates will be made monthly).

6 Billing and collection for Polokwane International Airport

- a) Gateway Airport Authority Limited (GAAL) is currently charging Billing for all approaches into Polokwane Airport (TMA Entry and Exit).
- b) ATNS is contracted as an Agent for Billing and Collections on behalf of GAAL.
- c) Banking Details for payment are as follows:

Account Holder: Air Traffic and Navigation Services SOC Ltd International

Bank: FirstRand Bank Limited

Branch: RMB Corporate Banking Johannesburg

Branch Code: 255005

Swift Code: FIRNZAJJ

Account Type1: ZAR (Current)

Account No1: 62693727847

Account Name: Air Traffic and Navigation Services SOC Ltd Bank: FirstRand Bank Limited Branch: Corporate Banking Johannesburg Branch Code: 254655 Swift Code: FIRNZAJJXXX Account Type2: Customer Foreign Currency account Account No2: USD 046 5321 Reference: Your Account Number or Invoice Number



d) Below please find attached the list of approach Tariffs:

	GAAL Approach Tariff						
мтоw	DOM	REG	INTL				
<2500	R97.00	R193.00	R193.00				
<6000	R147.00	R304.00	R330.00				
<7000	R416.00	R829.00	R1,241.00				
<8000	R539.00	R1,057.00	R1,067.00				
<9000	R644.00	R1,208.00	R1,287.00				
<10000	R706.00	R1,148.00	R1,395.00				
<11000	R889.00	R1,567.00	R1,778.00				
<12000	R966.00	R1,601.00	R1,932.00				
<13000	R1,074.00	R1,749.00	R2,131.00				
<14000	R1,119.00	R1,845.00	R2,223.00				
<15000	R1,257.00	R2,076.00	R2,514.00				
<16000	R1,334.00	R2,171.00	R2,653.00				
<17000	R1,395.00	R2,274.00	R2,791.00				
<18000	R1,488.00	R2,460.00	R2,975.00				
<19000	R1,533.00	R2,525.00	R3,083.00				
<20000	R1,594.00	R2,621.00	R3,205.00				
<30000	R2,023.00	R4,028.00	R4,049.00				
<40000	R2,376.00	R4,770.00	R5,402.00				
<50000	R2,913.00	R5,797.00	R7,718.00				
<60000	R3,296.00	R6,563.00	R7,787.00				
<70000	R3,605.00	R7,193.00	R7,977.00				
<80000	R3,864.00	R7,730.00	R8,172.00				
<90000	R4,155.00	R8,312.00	R8,590.00				
<100000	R4,472.00	R9,309.00	R9,943.00				
<110000	R4,800.00	R10,024.00	R10,511.00				
<120000	R5,153.00	R10,306.00	R10,719.00				
<130000	R5,355.00	R11,089.00	R11,762.00				
<140000	R5,552.00	R11,915.00	R12,943.00				
<150000	R5,982.00	R12,822.00	R14,341.00				
Please note that the a	bove tariffs are exclusiv	e of VAT					

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GEN 4.2-7 15 APR 19

Flight Class Code Description:					
DOM	Domestic				
REG	Regional				
INTL	International				

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