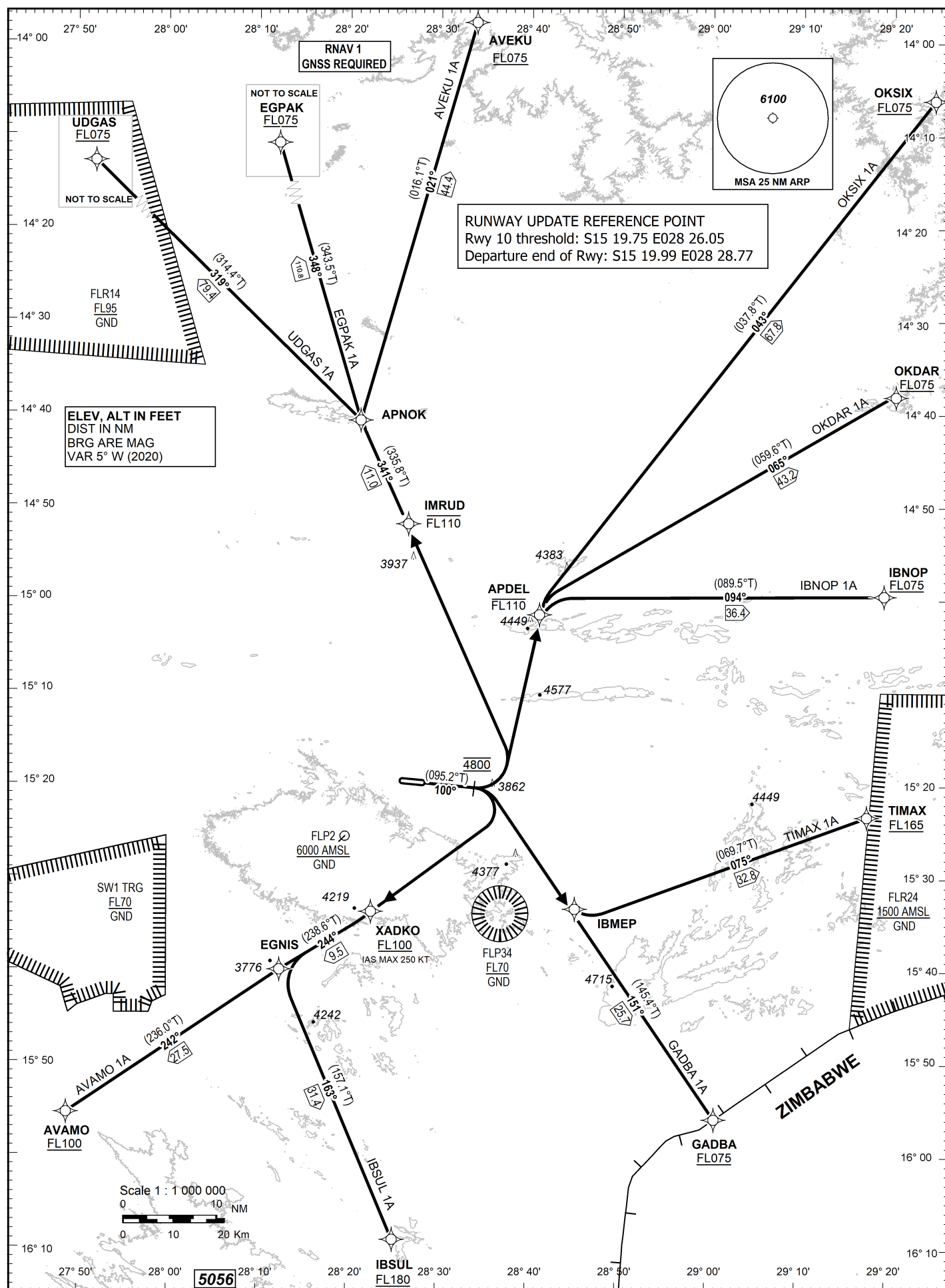


APP	121.300
	120.100
TWR	118.100

**KENNETH KAUNDA INTL/Lusaka
(FLKK)
RNAV SID RWY 10**

AVAMO 1A. AVEKU 1A. EGPAK 1A. GADBA 1A. IBNOP 1A. IBSUL 1A. OKDAR 1A. OKSIX 1A. TIMAX 1A. UDGAS 1A



STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAO

KENNETH KAUNDA INTL/Lusaka
(FLKK)
RNAV SID RWY 10
AVAMO 1A, AVEKU 1A, EGPAK 1A, GADBA 1A, IBNOP 1A, IBSUL 1A, OKDAR 1A, OKSIX 1A, TIMAX 1A, UDGAS 1A

TABULAR DESCRIPTION												
RNAV SID RWY 10												
AVAMO 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	XADKO	-	-	-	-	-	+FL100	-250	-	-	RNAV 1
030	TF	EGNIS	-	244 (238.6)	-	9.5	-	-	-	-	-	RNAV 1
040	TF	AVAMO	-	242 (236.0)	-	27.5	-	+FL100	-	-	-	RNAV 1
AVEKU 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	IMRUD	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	APNOK	-	341 (335.8)	-	11.0	-	-	-	-	-	RNAV 1
040	TF	AVEKU	-	021 (016.0)	-	44.4	-	+FL075	-	-	-	RNAV 1
EGPAK 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	IMRUD	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	APNOK	-	341 (335.8)	-	11.0	-	-	-	-	-	RNAV 1
040	TF	EGPAK	-	348 (343.5)	-	110.8	-	+FL075	-	-	-	RNAV 1
GADBA 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	IBMEP	-	-	-	-	-	-	-	-	-	RNAV 1
030	TF	GADBA	-	151 (145.4)	-	25.7	-	+FL075	-	-	-	RNAV 1
IBNOP 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	APDEL	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	IBNOP	-	094 (089.5)	-	36.4	-	+FL075	-	-	-	RNAV 1
IBSUL 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	XADKO	-	-	-	-	-	+FL110	-250	-	-	RNAV 1
030	TF	EGNIS	-	244 (238.6)	-	9.5	-	-	-	-	-	RNAV 1
040	TF	IBSUL	-	163 (157.1)	-	31.4	-	+FL180	-	-	-	RNAV 1
OKDAR 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	APDEL	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	OKDAR	-	065 (059.6)	-	43.2	-	+FL075	-	-	-	RNAV 1
OKSIX 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	APDEL	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	OKSIX	-	043 (037.8)	-	67.8	-	+FL075	-	-	-	RNAV 1
TIMAX 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	IBMEP	-	-	-	-	-	-	-	-	-	RNAV 1
030	TF	TIMAX	-	075 (069.7)	-	32.8	-	+FL165	-	-	-	RNAV 1
UDGAS 1A												
Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	IMRUD	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	APNOK	-	341 (335.8)	-	11.0	-	-	-	-	-	RNAV 1
040	TF	UDGAS	-	319 (314.4)	-	79.4	-	+FL075	-	-	-	RNAV 1

WAYPOINT LIST
RNAV SID RWY 10

WaypointIdentifier	Coordinates	
APDEL	S 15 00 00.1	E 028 41 43.7
APNOK	S 14 40 54.2	E 028 21 15.1
AVAMO	S 15 55 29.0	E 027 48 48.0
AVEKU	S 13 58 00.0	E 028 33 54.0
EGNIS	S 15 40 05.0	E 028 12 27.9
EGPAK	S 12 54 06.0	E 027 49 06.0
GADBA	S 15 56 03.2	E 029 00 53.2
IBNOP	S 14 59 36.0	E 029 19 18.0
IBSUL	S 16 09 09.0	E 028 25 10.0
XADKO	S 15 35 05.9	E 028 20 54.9
IBMEP	S 15 34 50.2	E 028 45 45.9
IMRUD	S 14 50 59.7	E 028 25 54.7
OKDAR	S 14 38 00.0	E 029 20 12.0
OKSIX	S 14 06 12.0	E 029 24 30.0
TIMAX	S 15 23 24.0	E 029 17 36.0
UDGAS	S 13 44 59.6	E 027 22 58.5

ROUTING

NAME	TEXT
AVAMO 1A	After take-off climb on course 100° to 4800 FT, turn RIGHT direct to XADKO, then track 244° to EGNIS , then track 242° to AVAMO. IAS 250kt until XADKO. MCA/MCL: XADKO AT or ABOVE FL100, AVAMO AT or ABOVE FL100.
AVEKU 1A	After take-off climb on course 100° to 4800 FT, turn LEFT direct to IMRUD, then track 341° to APNOK, then track 021° to AVEKU. MCA/MCL: KK110 AT or BELOW FL110, AVEKU AT or ABOVE FL075
EGPAK 1A	After take-off climb on course 100° to 4800 FT, turn LEFT direct to IMRUD, then track 341° to APNOK, then track 348° to EGPAK. MCA/MCL: KK110 AT or BELOW FL110, EGPAK AT or ABOVE FL075.
GADBA 1A	After take-off climb on course 100° to 4800 FT, turn RIGHT direct to IBMEP, then track 151° to GADB A. MCA/MCL: GADBA AT or ABOVE FL075.
IBNOP 1A	After take-off climb on course 100° to 4800 FT, turn LEFT direct to APDEL, then track 094° to IBNOP. MCA/MCL: APDEL AT or BELOW FL110, IBNOP AT or ABOVE FL075.
IBSUL 1A	After take-off climb on course 100° to 4800 FT, turn RIGHT direct to XADKO, then track 244° to EGNIS , then track 163° to IBSUL. IAS 250kt until XADKO. MCA/MCL: KK111 AT or ABOVE FL110, IBSUL AT or ABOVE FL180.
OKDAR 1A	After take-off climb on course 100° to 4800 FT, turn LEFT direct to APDEL, then track 065° to OKDAR. MCA/MCL: APDEL AT or BELOW FL110, OKDAR AT or ABOVE FL075.
OKSIX 1A	After take-off climb on course 100° to 4800 FT, turn LEFT direct to APDEL, then track 043° to OKSIX. MCA/MCL: APDEL AT or BELOW FL110, OKSIX AT or ABOVE FL075.
TIMAX 1A	After take-off climb on course 100° to 4800 FT, turn RIGHT direct to IBMEP, then track 075° to TIMA X. MCA/MCL: TIMAX AT or ABOVE FL165.
UDGAS 1A	After take-off climb on course 100° to 4800 FT, turn LEFT direct to IMRUD, then track 341° to APNOK, then track 319° to UDGAS. MCA/MCL: KK110 AT or BELOW FL110, UDGAS AT or ABOVE FL075.

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**STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAO**

TRANSITION ALTITUDE
6000

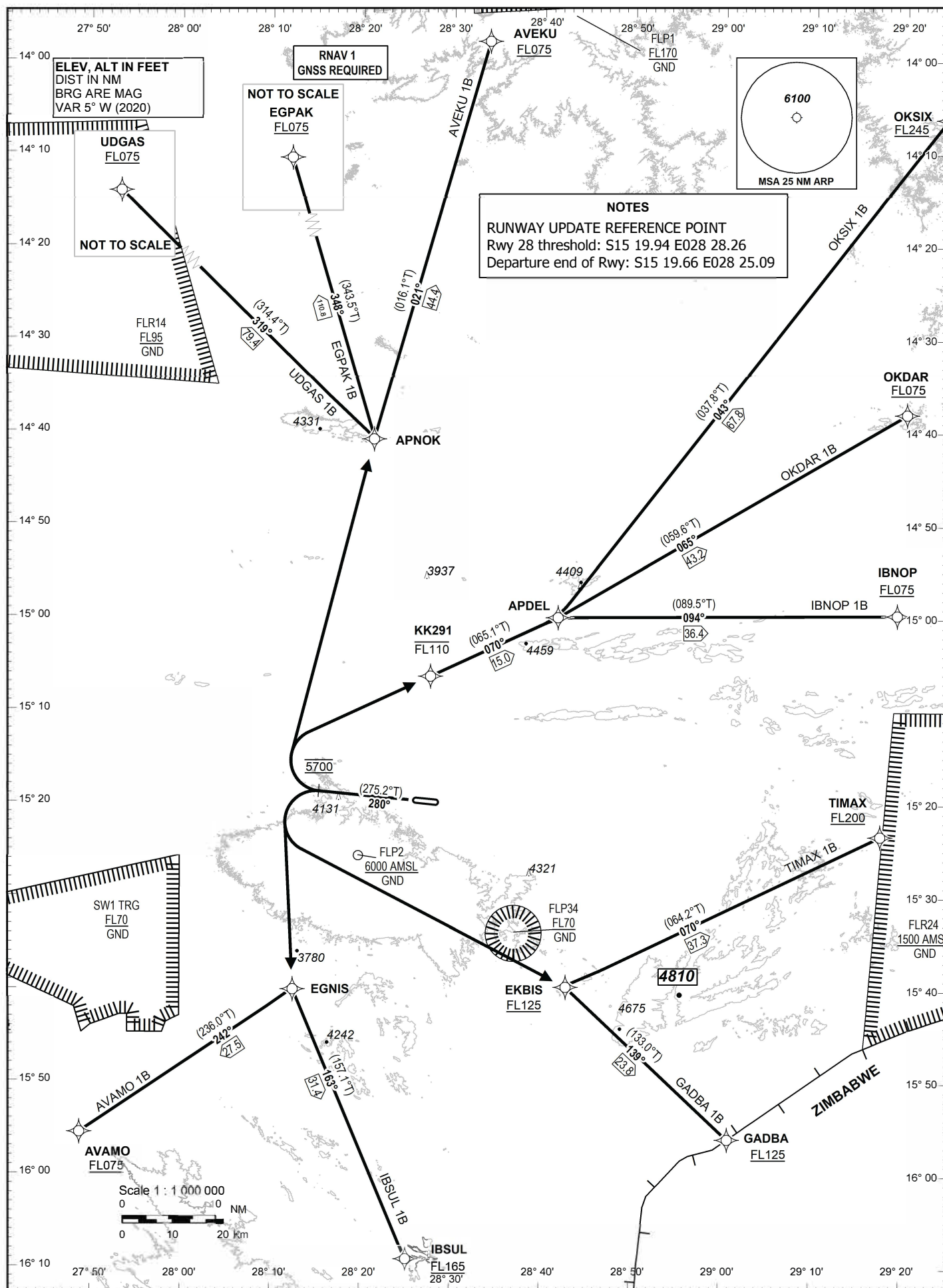
APP 121.300
120.100
TWR 118.100

KENNETH KAUNDA INTL/Lusaka

(FLKK)

RNAV SID RWY 28

AVAMO 1B, AVEKU 1B, EGPAK 1B, GADBA 1B, IBNOP 1B, IBSUL 1B, OKDAR 1B, OKSIX 1B, TIMAX 1B, UDGAS 1B



STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAO

KENNETH KAUNDA INTL/Lusaka
(FLKK)
RNAV SID RWY 28

AVAMO 1B, AVEKU 1B, EGPAK 1B, GADBA 1B, IBNOP 1B, IBSUL 1B, OKDAR 1B, OKSIX 1B, TIMAX 1B, UDGAS 1B

TABULAR DESCRIPTION

RNAV SID RWY 28
AVAMO 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	EGNIS	-	-	-	-	-	-	-	-	-	RNAV 1
030	TF	AVAMO	-	242 (236.0)	-	27.5	-	+FL075	-	-	-	RNAV 1

AVEKU 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	APNOK	-	-	-	-	-	-	-	-	-	RNAV 1
030	TF	AVEKU	-	021 (016.1)	-	44.4	-	+FL075	-	-	-	RNAV 1

EGPAK 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	APNOK	-	-	-	-	-	-	-	-	-	RNAV 1
030	TF	EGPAK	-	348 (343.5)	-	110.8	-	+FL075	-	-	-	RNAV 1

GADBA 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	EKBIS	-	-	-	-	-	+FL125	-	-	-	RNAV 1
030	TF	GADBA	-	139 (133.0)	-	23.8	-	+FL125	-	-	-	RNAV 1

IBNOP 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	KK291	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	APDEL	-	070 (065.1)	-	15.0	-	-	-	-	-	RNAV 1
040	TF	IBNOP	-	094 (089.5)	-	36.4	-	+FL075	-	-	-	RNAV 1

IBSUL 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	EGNIS	-	-	-	-	-	-	-	-	-	RNAV 1
030	TF	IBSUL	-	163 (157.1)	-	31.4	-	+FL165	-	-	-	RNAV 1

OKDAR 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	KK291	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	APDEL	-	070 (065.1)	-	15.0	-	-	-	-	-	RNAV 1
040	TF	OKDAR	-	065 (059.6)	-	43.2	-	+FL075	-	-	-	RNAV 1

OKSIX 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	KK291	-	-	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	APDEL	-	070 (065.1)	-	15.0	-	-	-	-	-	RNAV 1
040	TF	OKSIX	-	043 (037.8)	-	67.7	-	+FL245	-	-	-	RNAV 1

TIMAX 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	EKBIS	-	-	-	-	-	+FL125	-	-	-	RNAV 1
030	TF	TIMAX	-	070 (064.2)	-	37.3	-	+FL200	-	-	-	RNAV 1

UDGAS 1B

Serial Number	Path Descriptor	Waypoint Identifier	Fly-over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Nav aids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	-	@5700	-	-	-	RNAV 1
020	DF	APNOK	-	-	-	-	-	-	-	-	-	RNAV 1
030	TF	UDGAS	-	319 (314.4)	-	79.4	-	+FL075	-	-	-	RNAV 1

**STANDARD DEPARTURE CHART -
INSTRUMENT (SID) - ICAO****KENNETH KAUNDA INTL/Lusaka
(FLKK)****RNAV SID RWY 28**

AVAMO 1B, AVEKU 1B, EGPAK 1B, GADBA 1B, IBNOP 1B, IBSUL 1B, OKDAR 1B, OKSIX 1B, TIMAX 1B, UDGAS 1B

**WAYPOINT LIST
RNAV SID RWY 28**

WaypointIdentifier	Coordinates		WaypointIdentifier	Coordinates	
APDEL	S 15 00 00.1	E 028 41 43.7	TIMAX	S 15 23 24.0	E 029 17 36.0
APNOK	S 14 40 54.2	E 028 21 15.1	UDGAS	S 13 44 59.6	E 027 22 58.5
AVAMO	S 15 55 29.0	E 027 48 48.0			
AVEKU	S 13 58 00.0	E 028 33 54.0			
EGNIS	S 15 40 05.0	E 028 12 27.9			
EGPAK	S 12 54 06.0	E 027 49 06.0			
EKBIS	S 15 39 44.6	E 028 42 48.5			
GADBA	S 15 56 03.2	E 029 00 53.2			
IBNOP	S 14 59 36.0	E 029 19 18.0			
IBSUL	S 16 09 09.0	E 028 25 10.0			
KK291	S 15 06 22.8	E 028 27 37.7			
OKSIX	S 14 06 12.0	E 029 24 30.0			

ROUTING

NAME	TEXT
AVAMO 1B	After take-off climb on course 280° to 5700 FT, turn LEFT direct to EGNIS, then track 242° to AVAMO. MCA/MCL: AVAMO AT or ABOVE FL075.
AVEKU 1B	After take-off climb on course 280° to 5700 FT, turn RIGHT direct to APNOK, then track 021° to AVEKU . MCA/MCL: AVEKU AT or ABOVE FL075.
EGPAK 1B	After take-off climb on course 280° to 5700 FT, turn RIGHT direct to APNOK, then track 348° to EGPAK . MCA/MCL: EGPAK AT or ABOVE FL075.
GADBA 1B	After take-off climb on course 280° to 5700 FT, turn LEFT direct to EKBIS, then track 139° to GADBA . MCA/MCL: EKBIS AT or ABOVE FL125, GADBA AT or ABOVE FL125.
IBNOP 1B	After take-off climb on course 280° to 5700 FT, turn RIGHT direct to KK291, then track 070° to APDEL , then track 094° to IBNOP. MCA/MCL: KK291 AT or BELOW FL110, IBNOP AT or ABOVE FL075.
IBSUL 1B	After take-off climb on course 280° to 5700 FT, turn LEFT direct to EGNIS, then track 163° to IBSUL. MCA/MCL: IBSUL AT or ABOVE FL165.
OKDAR 1B	After take-off climb on course 280° to 5700 FT, turn RIGHT direct to KK291, then track 070° to APDEL , then track 065° to OKDAR. MCA/MCL: KK291 AT or BELOW FL110, OKDAR AT or ABOVE FL075.
OKSIX	After take-off climb on course 280° to 5700 FT, turn RIGHT direct to KK291, then track 070° to APDEL , then track 043° to OKSIX. MCA/MCL: KK291 AT or BELOW FL110, OKSIX AT or ABOVE FL245.
TIMAX 1B	After take-off climb on course 280° to 5700 FT, turn LEFT direct to EKBIS, then track 070° to TIMAX . MCA/MCL: EKBIS AT or ABOVE FL125, TOMAX AT or ABOVE FL200.
UDGAS 1B	After take-off climb on course 280° to 5700 FT, turn RIGHT direct to APNOK, then track 319° to UDGAS . MCA/MCL: UDGAS AT or ABOVE FL075.

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