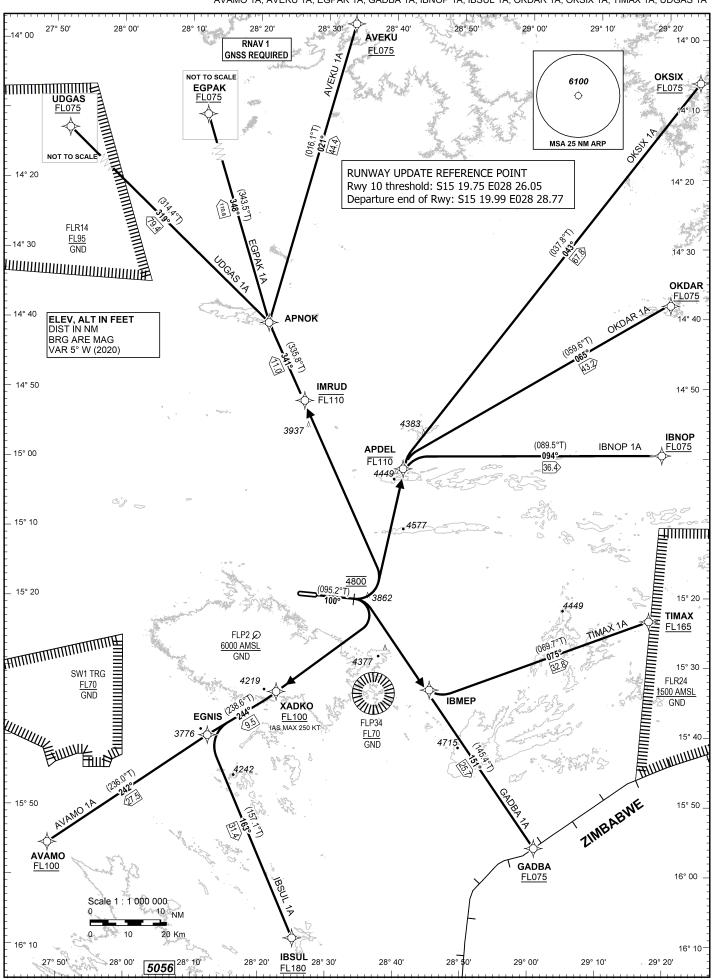
TRANSITION ALTITUDE 6000

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



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

ABUL	AR DES	CRIPTIO	N									
NAV SI VAMO 1	D RWY 10											
Serial	Path	Waypoint	Fly-	0 140(T0)	Magnetic	Distance (NM) /	Turn	AUT 1 (FT)	Speed Limit	L/D 4 (0/)	Rec	Navigation
Number	Descriptor	Identifier	over	Course M°(T°)	Variation (°)	Duration ´	Direction	Altitude (FT)	(KT)	VPA (%)	Navaids	Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	XADKO	-	-	-	-	-	+FL100	-250	-	-	RNAV 1
030	TF TF	EGNIS	-	244 (238.6)	-	9.5	-		-	-	-	RNAV 1
040 VEKU 14	1	AVAMO	<u> </u>	242 (236.0)	-	27.5	-	+FL100	-	-	-	RNAV 1
	Path	Mounaint	Eh.	1	Magnetic	Distance (NM) /	Turn		Cnood Limit		Poo	Novigation
Serial Number	Descriptor	Waypoint Identifier	Fly- over	Course M°(T°)	Magnetic Variation (°)	Distance (NM) / Duration	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA (%)	Rec Navaids	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
GPAK 1	Α				_							
Serial	Path	Waypoint	Fly-	Course M°(T°)	Magnetic	Distance (NM) /	Turn	Altitude (FT)	Speed Limit	VPA (%)	Rec	Navigation
Number	Descriptor	Identifier	over	` ′	Variation (°)	Duration	Direction	` ′	(KT)	1771 (70)	Navaids	Specification
010	CA	-	<u> </u>	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF TF	IMRUD APNOK	-	341 (335.8)	-	11.0	-	-FL110	-	-	-	RNAV 1 RNAV 1
040	TF	EGPAK	+-	348 (343.5)	-	110.8	-	+FL075	-	-	-	RNAV 1
ADBA 1	1	2017.11		1 010 (01010)	1	110.0		1 2010				1000
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 Navaids	Navigation Specification
010	CA	lucitation	-	100 (095.2)	-5.3	Duration	- Direction	@4800	-	_		RNAV 1
020	DF	IBMEP	+ -	100 (093.2)	-0.0	-	-	<u>_</u>	_	-	-	RNAV 1
030	TF	GADBA	-	151 (145.4)	-	25.7	-	+FL075	-	-	-	RNAV 1
SNOP 1A		•	•		•	•	•	•		•		
Serial	Path	Waypoint	Fly-		Magnetic	Distance (NM) /	Turn		Speed Limit		Rec	Navigation
Number	Descriptor	Identifier	over	Course M°(T°)	Variation (°)	Duration	Direction	Altitude (FT)	(KT)	VPA (%)	Navaids	Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	APDEL	-	- 1	-	-	-	-FL110	-	-	-	RNAV 1
030	TF	IBNOP	-	094 (089.5)	-	36.4	-	+FL075	-	-	-	RNAV 1
BSUL 1A	1	1		ı	Т	1				T		
Serial	Path	Waypoint	Fly-	Course M°(T°)	Magnetic	Distance (NM) /	Turn	Altitude (FT)	Speed Limit	VPA (%)	Rec	Navigation
Number	Descriptor	Identifier	over	100 (005 0)	Variation (°	Duration	Direction	` '	(KT)	. ,	Navaids	Specification
010 020	CA DF	- XADKO	-	100 (095.2)	-5.3	-	-	@4800 +FL110	-250	-	-	RNAV 1 RNAV 1
030	TF	EGNIS	+-	244 (238.6)	-	9.5	-	+FL110	-230	-	-	RNAV 1
040	TF	IBSUL	-	163 (157.1)	-	31.4	-	+FL180	-	-	-	RNAV 1
KDAR 1	A	1	•	, ,	1	•				ı		
Serial	Path	Waypoint	Fly-	0 140(70)	Magnetic	Distance (NM) /	Turn	AUG L (ET)	Speed Limit	VD 4 (0()	Rec	Navigation
Number	Descriptor	Identifier	over	Course M°(T°)	Variation (°)	Duration ´	Direction	Altitude (FT)	(KT)	VPA (%)	Navaids	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
KSIX 1A		T	T	T	Ι	T	T _			I		
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 Navaids	Navigation Specification
010	CA		-	100 (095.2)	-5.3			@4800	. ,			RNAV 1
020	DF	- APDEL	+-	100 (095.2)	-0.0	-	-	-FL110	-	-	-	RNAV 1
030	TF	OKSIX	-	043 (037.8)	-	67.8	-	+FL075	-	-	-	RNAV 1
IMAX 1A					•	•						
Serial	Path	Waypoint	Fly-	Course Mo(To)	Magnetic	Distance (NM) /	Turn	Altitude (ET)	Speed Limit	VDA (0/)	Rec	Navigation
Number	Descriptor	Identifier	over	Course M°(T°)	Variation (°)	Duration	Direction	Altitude (FT)	(KT)	VPA (%)	Navaids	Specification
010	CA	-	-	100 (095.2)	-5.3	-	-	@4800	-	-	-	RNAV 1
020	DF	IBMEP	-	- 075 (000 7)	-	-	-	-	-	-	-	RNAV 1
030	TF	TIMAX	-	075 (069.7)	-	32.8	-	+FL165	-	-	-	RNAV 1
DGAS 1/		147:	T	1	M	Distance (200)	T .		0		D	A1- '- "
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 Navaids	Navigation Specification
010	CA	-	-	100 (095.2)	-5.3	- Duration	- Direction	@4800	-	_	- Ivavaius	RNAV 1
020	DF	IMRUD	+-	-	-0.0	-	-	-FL110	-	-	-	RNAV 1
030	TF	APNOK	-	341 (335.8)	-	11.0	-	-	-	-	-	RNAV 1
040	TF	UDGAS	-	319 (314.4)	1	79.4		+FL075				RNAV 1

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

WAYPOINT LIST RNAV SID RWY 10

WaypointIdentifier	C	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

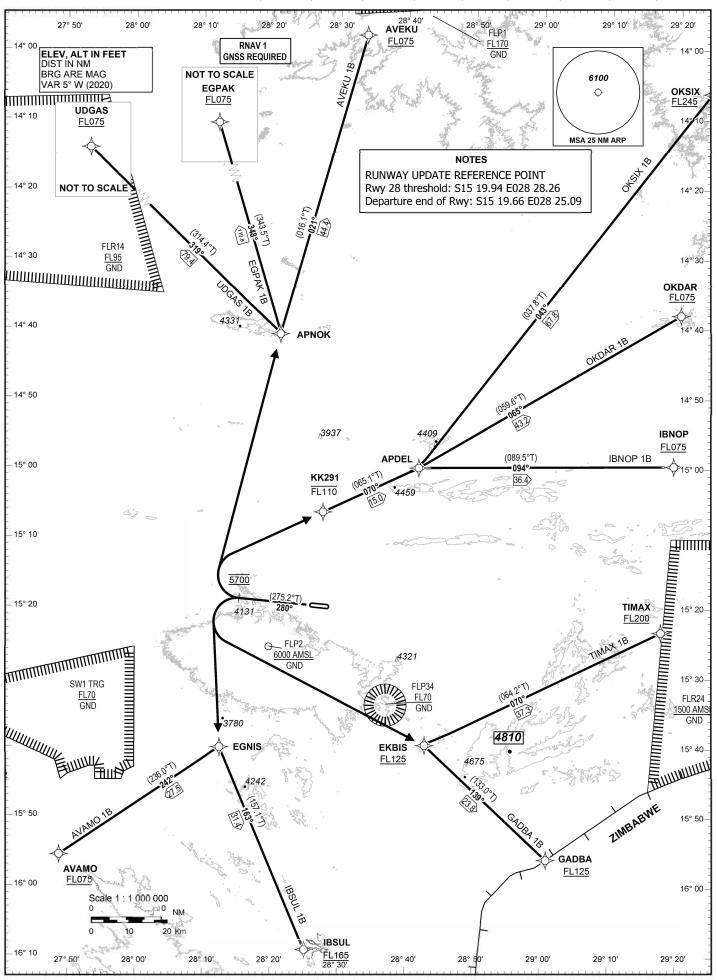
ROUTING

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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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



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

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

NAV SII VAMO 1	D RWY 28	L		1	4							
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 Navaids	Navigation Specification
010	CA		- 11	280 (275.2)	-5.3) te	200	@5700	31	(to	- 51	RNAV 1
020	DF	EGNIS	-	0.40 (000.0)		07.5	- ar	F1.075	721	1127	21	RNAV 1
030	TF.	AVAMO	+	242 (236.0)	*	27.5	- 30	+FL075			+:	RNAV 1
/EKU 1E		T	1	1	1	T	T -		T			
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 Navaids	Navigation Specification
010	CA	7 3	-	280 (275.2)	-5.3	- Daration	2	@5700	()	1025	21	RNAV 1
020	DF	APNOK		200 (27 0.2)	-5.0			- 600100			-	RNAV 1
030	TF	AVEKU		021 (016.1)	-	44.4	30	+FL075		- F	20	RNAV 1
GPAK 1E	3											
Serial	Path	Waypoint	Fly-	Course M°(T°)	Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit	VPA (%)	Rec	Navigation
Number	Descriptor	Identifier	over	Odurse W (1)	Variation (°)	Duration	Direction	(FT)	(KT)	V1 A (70)	Navaids	Specification
010	CA	2	25	280 (275.2)	-5.3	. /2	325.	@5700	(4)	827	28	RNAV 1
020	DF	APNOK	- t	240 (242.5)		440.0		FI 075		(#)	50	RNAV 1
030 SADBA 1E	TF	EGPAK	1	348 (343.5)	2	110.8		+FL075	12		21	KNAV I
	Γ	IMe	FI.		Manager	Diotonos (NAA) (T	Λ14:41-	Speed Limit	i i	D	M
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 Navaids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	270	@5700	1/		71	RNAV 1
020	DF	EKBIS	-	(2.5.2)	-			+FL125	-		- 60 - 61	RNAV 1
030	TF	GADBA	7.1	139 (133.0)		23.8	(F)	+FL125	17.1	950		RNAV 1
BNOP 1B		ot .			76		7					
Serial	Path	Waypoint	Fly-	Course M°(T°)	Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit	VPA (%)	Rec	Navigation
Number	Descriptor	Identifier	over	<u>'</u> '	Variation (°)	Duration	Direction	(FT)	(KT)	V171(70)	Navaids	Specification
010	CA		=======================================	280 (275.2)	-5.3		68	@5700	22.7	(F)	55	RNAV 1
020	DF TF	KK291 APDEL	-	070 (005.4)		45.0		-FL110	- 12		20	RNAV 1
030	TF	IBNOP	+ S	070 (065.1) 094 (089.5)	2	15.0 36.4	(e) (2)	+FL075	10.	109	#1 27	RNAV 1 RNAV 1
BSUL 1B		IDINOI	1 -	1 034 (003.3)		30.4		11 11 11 11 11		1		I INVAVI
Serial	Path	Waypoint	Fly-		Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit		Rec	Navigation
Number	Descriptor	Identifier	over	Course M°(T°)	Variation (°)	Duration	Direction	(FT)	(KT)	VPA (%)	Navaids	Specification
010	CA	-		280 (275.2)	-5.3	-	5.41	@5700		1270		RNAV 1
020	DF	EGNIS	-8	ìa	9	22	648	-	F41	743	20	RNAV 1
030	TF	IBSUL	+)	163 (157.1)		31.4	358	+FL165	(9.1	\$5	5	RNAV 1
OKDAR 1	3	T.							T			
Serial	Path	Waypoint	Fly-	Course M°(T°)	Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit	VPA (%)	Rec	Navigation
Number	Descriptor	Identifier	over	` '	Variation (°)	Duration	Direction	(FT)	(KT)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Navaids	Specification
010	CA DF	1///2014	+	280 (275.2)	-5.3		- 33	@5700			÷:	RNAV 1
020	TF	KK291 APDEL		070 (065.1)	2	15.0	322	-FL110			27 41	RNAV 1
040	TF	OKDAR		065 (059.6)	1	43.2	33	+FL075	-		8	RNAV 1
OKSIX 1B				, , , , , , , , , , , , , , , , , , , ,			1-1-1					
Serial	Path	Waypoint	Fly-	Cours 149 (TO)	Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit	VDA (94)	Rec	Navigation
Number	Descriptor	Identifier	over	Course M°(T°)	Variation (°)	Duration	Direction	(FT)	(KT)	VPA (%)	Navaids	Specification
010	CA	TÎ.	77	280 (275.2)	-5.3		755	@5700	ge I	1072	1:	RNAV 1
020	DF	KK291	+1		-	14	38	-FL110	(a)	760	\$	RNAV 1
030	TF TF	APDEL	1	070 (065.1)		15.0	- 123 207	,EL245		ista Vo	#3 US	RNAV 1
040 FIMAX 1B	I IF	OKSIX	-	043 (037.8)	. 3	67.7	L Gin	+FL245	757.	1.60	25	RNAV 1
	D-#-	I Merce 1 1	Fl.		Manager	Dioto: (*** *	Trum	A11111	Constitution	ì	D	M
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 Navaids	Navigation Specification
010	CA	-	-	280 (275.2)	-5.3	-	Birodion	@5700	(111)	-	71474140	RNAV 1
020	DF	EKBIS	1 8	255 (210.2)	-0.0		545	+FL125	1 1	1+0	- 33 - 43	RNAV 1
030	TF	TIMAX		070 (064.2)	-	37.3	878	+FL200	17.)	959	*	RNAV 1
JDGAS 1E	3	192			S2 2	r			Y	7		
	Path	Waypoint	Fly-	Course M°(T°)	Magnetic	Distance (NM) /	Turn	Altitude	Speed Limit	VPA (%)	Rec	Navigation
Serial	Descriptor	Identifier	over	` ′	Variation (°)	Duration	Direction	(FT)	(KT)	1 ' '	Navaids	Specification
Number		3	25	280 (275.2)	-5.3		722	@5700	12	550	27	RNAV 1
Number 010	CA					19			34	(+:		
Number	DF TF	APNOK UDGAS	-	319 (314.4)	2	79.4		+FL075	-	-	- 40	RNAV 1

CHANGE: New Chart

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

- 1				125	is a second seco	
	WaypointIdentifier	Coor	dinates	WaypointIdentifier	Coon	dinates
ı	APDEL	S 15 00 00.1	E 028 41 43.7	TIMAX	S 15 23 24.0	E 029 17 36.0
ı	APNOK	S 14 40 54.2	E 028 21 15.1	UDGAS	S 13 44 59.6	E 027 22 58.5
ı	AVAMO	S 15 55 29.0	E 027 48 48.0			
ı	AVEKU	S 13 58 00.0	E 028 33 54.0			
ı	EGNIS	S 15 40 05.0	E 028 12 27.9			
ı	EGPAK	S 12 54 06.0	E 027 49 06.0			
ı	EKBIS	S 15 39 44.6	E 028 42 48.5	-		
ı	GADBA	S 15 56 03.2	E 029 00 53.2			
ı	IBNOP	S 14 59 36.0	E 029 19 18.0			
ı	IBSUL	S 16 09 09.0	E 028 25 10.0			
ı	KK291	S 15 06 22.8	E 028 27 37.7			
١	OKSIX	S 14 06 12.0	E 029 24 30.0			
١	-					

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 IBNO P.					
	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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