

STANDARD ARRIVAL CHART -  
INSTRUMENT (STAR) - ICAO

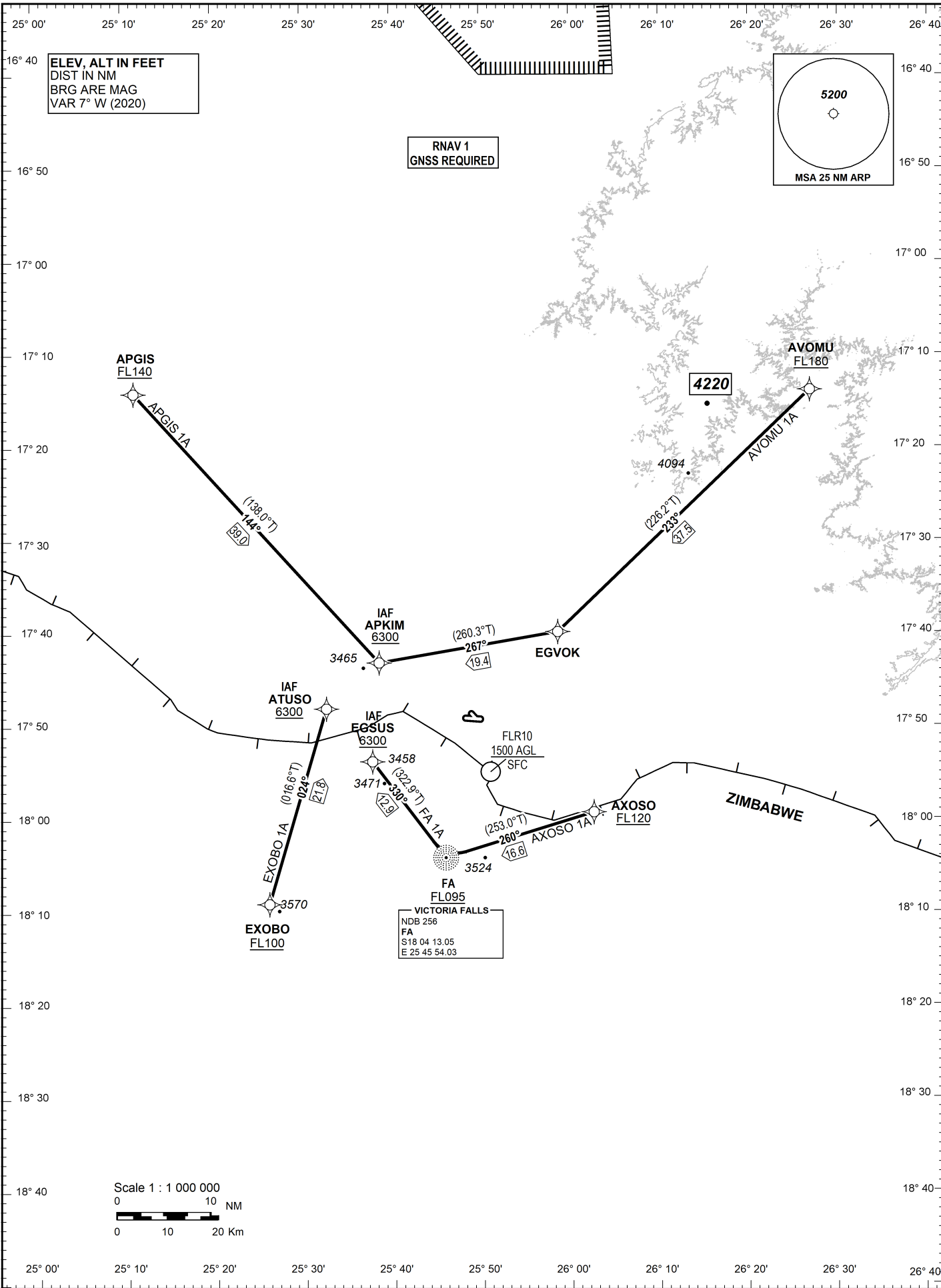
HARRY MWAANGA NKUMBULA INTL/Livingstone  
(FLHN)

RNAV STAR RWY 10

TRANSITION ALTITUDE  
5000

APP 124.300  
TWR 118.100

APGIS 1A, AVOMU 1A, AXOSO 1A, EXOBO 1A, FA 1A



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RNAV STAR RWY 10  
APGIS 1A, AVOMU 1A, AXOSO 1A, EXOBO 1A, FA 1A

TABULAR DESCRIPTION

RNAV STAR RWY 10  
APGIS 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 Navaids	Navigation Specification
010	IF	APGIS	-	-	-	-	-	+FL140	-	-	-	RNAV 1
020	TF	APKIM	-	144 (138.0)	-	39.0	-	+6300	-	-	-	RNAV 1

AVOMU 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 Navaids	Navigation Specification
010	IF	AVOMU	-	-	-	-	-	+FL180	-	-	-	RNAV 1
020	TF	EGVOK	-	233 (226.2)	-	37.5	-	-	-	-	-	RNAV 1
030	TF	APKIM	-	267 (260.3)	-	19.4	-	+6300	-	-	-	RNAV 1

AXOSO 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 Navaids	Navigation Specification
010	IF	AXOSO	-	-	-	-	-	+FL120	-	-	-	RNAV 1
020	TF	FA	-	260 (253.0)	-	16.6	-	+FL095	-	-	-	RNAV 1
030	TF	EGSUS	-	330 (322.9)	-	12.9	-	+6300	-	-	-	RNAV 1

EXOBO 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 Navaids	Navigation Specification
010	IF	EXOBO	-	-	-	-	-	+FL100	-	-	-	RNAV 1
020	TF	ATUSO	-	024 (016.6)	-	21.8	-	+6300	-	-	-	RNAV 1

FA 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 Navaids	Navigation Specification
010	IF	FA	-	-	-	-	-	+FL095	-	-	-	RNAV 1
020	TF	EGSUS	-	330 (322.9)	-	12.9	-	+6300	-	-	-	RNAV 1

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APGIS 1A, AVOMU 1A, AXOSO 1A, EXOBO 1A, FA 1A

WAYPOINT LIST  
RNAV STAR RWY 10

WaypointIdentifier	Coordinates	
APGIS	S 17 14 13.0	E 025 11 11.6
APKIM	S 17 43 14.1	E 025 38 31.5
ATUSO	S 17 48 09.8	E 025 32 34.8
AVOMU	S 17 13 58.0	E 026 26 53.0
AXOSO	S 17 59 22.1	E 026 02 33.8
EGSUS	S 17 53 51.6	E 025 37 43.5
EGVOK	S 17 39 57.9	E 025 58 34.5
EXOBO	S 18 09 09.0	E 025 26 02.7
FA	S 18 04 13.1	E 025 45 54.0

ROUTING

NAME	TEXT
APGIS 1A	From APGIS track 144° to APKIM. MEL/MEA: APGIS AT or ABOVE FL140, APKIM AT or ABOVE 6300'.
AVOMU 1A	From AVOMU track 233° to EGVOK, track 267° to APKIM. MEL/MEA: AVOMU AT or ABOVE FL180, APKIM AT or ABOVE 6300'.
AXOSO 1A	From AXOSO track 260° to FA, track 330° to EGSUS. MEL/MEA: AXOSO AT or ABOVE FL120, FA AT or ABOVE FL095, EGSUS AT or ABOVE 6300'.
EXOBO 1A	From EXOBO track 024° to ATUSO. MEL/MEA: EXOBO AT or ABOVE FL100, ATUSO AT or ABOVE 6300'.
FA 1A	From FA track 330° to EGSUS. MEL/MEA: FA AT or ABOVE FL095, EGSUS AT or ABOVE 6300'.

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TRANSITION ALTITUDE  
5000

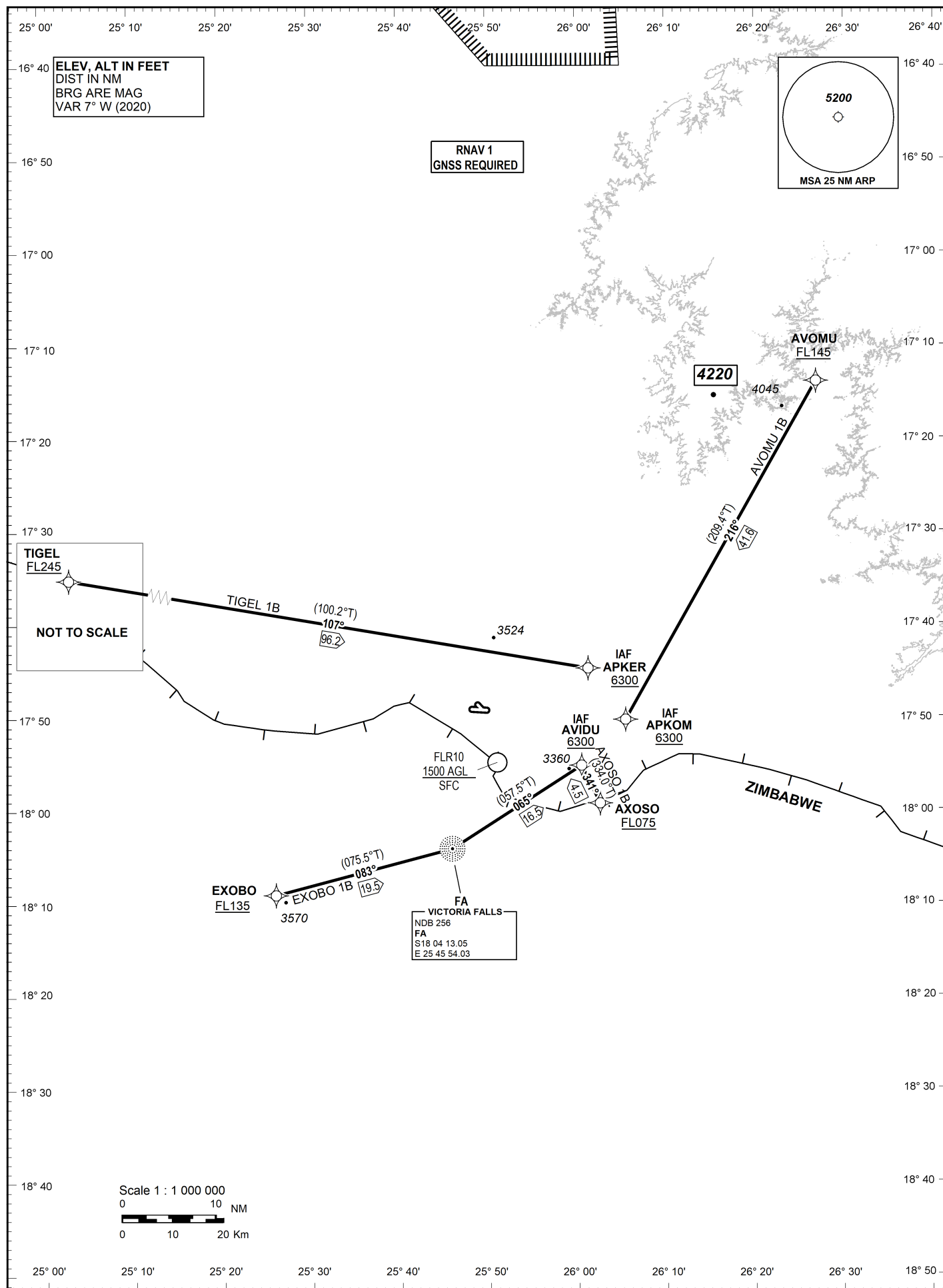
APP 124.300  
TWR 118.100

HARRY MWAANGA NKUMBULA INTL/Livingstone

(FLHN)

RNAV STAR RWY 28

AVOMU 1B, AXOSO 1B, EXOBO 1B, TIGEL 1B



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RNAV STAR RWY 28  
AVOMU 1B, AXOSO 1B, EXOBO 1B, TIGEL 1B

TABULAR DESCRIPTION

RNAV STAR RWY 28  
AVOMU 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 Navaids	Navigation Specification
010	IF	AVOMU	-	-	-	-	-	+FL145	-	-	-	RNAV 1
020	TF	APKOM	-	216 (209.4)	-	41.6	-	+6300	-	-	-	RNAV 1

AXOSO 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 Navaids	Navigation Specification
010	IF	AXOSO	-	-	-	-	-	+FL075	-	-	-	RNAV 1
020	TF	AVIDU	-	341 (334.0)	-	4.5	-	+6300	-	-	-	RNAV 1

EXOBO 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 Navaids	Navigation Specification
010	IF	EXOBO	-	-	-	-	-	+FL135	-	-	-	RNAV 1
020	TF	FA	-	083 (075.5)	-	19.5	-	-	-	-	-	RNAV 1
030	TF	AVIDU	-	065 (057.5)	-	16.5	-	+6300	-	-	-	RNAV 1

TIGEL 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 Navaids	Navigation Specification
010	IF	TIGEL	-	-	-	-	-	+FL245	-	-	-	RNAV 1
020	TF	APKER	-	107 (100.2)	-	96.2	-	+6300	-	-	-	RNAV 1

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AVOMU 1B, AXOSO 1B, EXOBO 1B, TIGEL 1B

WAYPOINT LIST  
RNAV STAR RWY 28

WaypointIdentifier	Coordinates	
APKER	S 17 44 50.7	E 026 01 15.2
APKOM	S 17 50 22.7	E 026 05 27.1
AVIDU	S 17 55 18.0	E 026 00 29.5
AVOMU	S 17 13 58.0	E 026 26 53.0
AXOSO	S 17 59 22.1	E 026 02 33.8
EXOBO	S 18 09 09.0	E 025 26 02.7
FA	S 18 04 13.1	E 025 45 54.0
TIGEL	S 17 28 12.0	E 024 22 00.0

ROUTING

NAME	TEXT
AVOMU 1B	From AVOMU track 216° to APKOM. MEL/MEA: AVOMU AT or ABOVE FL145, APKOM AT or ABOVE 6300'.
AXOSO 1B	From AXOSO track 341° to AVIDU. MEL/MEA: AXOSO AT or ABOVE FL075, AVIDU AT or ABOVE 6300'.
EXOBO 1B	From EXOBO track 083° to FA, track 065 to to AVIDU. MEL/MEA: EXOBO AT or ABOVE FL075, AVIDU AT or ABOVE 6300'.
TIGEL 1B	From TIGEL track 107° to APKER. MEL/MEA: TIGEL AT or ABOVE FL245, APKER AT or ABOVE 6300'.

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