STANDARD DEPARTURE CHART RNAV (GNSS) -

TWR 118.6 / 118.25 APP 120.3 124.05 ACC 134.2

TRANSITION ALTITUDE 11 000ft

PROCEDURE INFORMATION

SID SHALL NOT EXCEED IAS 230KTS UNTIL PASSING 4000FT AMSL AND NOT EXCEED AS 250KTS UNTIL PASSING 10000FT AMSL.

D-ATIS AP ID-WSSS 128.6

SINGAPORE/Singapore Changi

TOMAN DEPARTURES RWY 20L

GENERAL INFORMATION

INSTRUMENT (SID)

NITIAL CLIME

CAUTION: RWY 02R/20L NOT AVAILABLE FOR CIVIL USE UNTIL FURTHER ADVISED

NOTE: RADAR REQUIRED

NOTE: RNAV-1 NAVIGATION SPECIFICATION GNSS REQUIRED

NOTE: ACFT UNABLE TO FLY THE SID PROFILE SHALL INFORM ATC PRIOR TO DEPARTURE AND EXPECT RADAR VECTORING IF NECESSARY

NOTE: WHEN TAKEN OFF THE SID, AS INSTRUCTED BY ATC, REFER TO ENR 1.5, SECTION 3, PARAGRAPH 3.4.3 - FOR RWY 20L MINIMUM CLIMB GRADIENT

NOTE: REFER TO BACK PAGE FOR
- FORMAL AND TABULAR DESCRIPTIONS
- RADIO COM FAILURE PROCEDURES

2734 1003 300 2279 835 250 1823 899 200 1367 501 150 334 911 100 251 684 75 GND SPEED - KNOTS 3.3% V/V (fpm) 9% V/V (fpm)

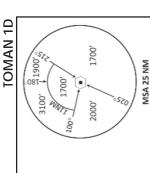
SID SHALL BE ON A MINIMUM CLIMB GRADIENT OF 9% UNTIL REACHING OR PASSING 2500FT, THEREAFTER 3.3%

CRUISING LEVELS WILL BE ISSUED AFTER TAKE-OFF BY SINGAPORE RADAR.

ELEV, ALT IN FEET

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC VAR 0°23'E (2020)

DISTANCES IN NM



from TEKONG DVOR

TOMAN 01°21'47"N 105°47'17"E	,587 P4
VEBMA 01°20'30'N 104°53'32'E	-5 O O O O O O O O O O O O O O O O O O O
GOTGA 01*22113"N 104*42'00"E	MUMDU (14" 25" 14" E (14" E (1
TEKONG DVOR/DME 116.5 VTK ■ 1 01° 24' 55"N 104° 01' 20" E 60m	DER(RWY 20L)

NOT TO SCALE

TOMAN 1D (SID) RNAV GNSS RWY 20L - DESCRIPTIONS

Formal & Abbreviated Descriptions

Formal Description	Abbreviated Description	Path Terminator	Fly-Over required
To UKIBO on course 203°, turn left.	UKIBO [M203; L] -	CF	N
To DUBOT at or above 4000ft, turn left.	DUBOT [A040+; L] -	TF	N
To ERVIV at 6000ft, turn left.	ERVIV [@A060; L] -	TF	N
To MUMDU, turn left.	MUMDU [L] -	TF	N
To SEBVO at or below 9000ft.	SEBVO [A090-] -	TF	N
To GOTGA, turn right.	GOTGA [R] -	TF	N
To VEBMA.	VEBMA -	TF	N
To TOMAN.	TOMAN	TF	N

Tabular Descriptions

Path Term	Waypoint Name	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude	Speed Limit	Navigation Spec
CF	UKIBO	Υ	203(203.4)	1.5	L	-	-	RNAV1
TF	DUBOT	-	169(169.4)	9.0	L	A040+	-	RNAV1
TF	ERVIV		113(113.4)	10.0	L	@A060	-	RNAV1
TF	MUMDU		088(088.4)	17.0	L	-	-	RNAV1
TF	SEBVO		045(045.4)	11.0	-	A090-	-	RNAV1
TF	GOTGA		045(045.4)	10.0	R	-	-	RNAV1
TF	VEBMA	-	088(088.4)	12.0	-	-	1	RNAV1
TF	TOMAN	-	088(088.4)	54.0	-	-	-	RNAV1

Radio Communications Failure Procedure

1	SET TRANSPONDER TO MODE A/C CODE 7600
2	COMMUNICATIONS FAILURE OCCURS IMMEDIATELY AFTER DEPARTURE:
	PROCEED DIRECT TO SAMKO HOLDING AREA (SHA) CLIMBING TO THE LAST ASSIGNED
	ALTITUDE, THEREAFTER REFER TO SINGAPORE AIP ON RADIO COMMUNICATIONS FAILURE
	PROCEDURE.