STANDARD DEPARTURE CHART -**INSTRUMENT**

TWR 118.6 / 118.25 APP 120.3 / 124.05 ACC 133.25

TRANSITION ALTITUDE 11 000ft

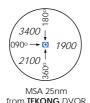
D-ATIS AP ID-WSSS 128.6

SINGAPORE/Singapore Changi **RWY 02C/20C BOBAG DEPARTURES** BOG 1A (R02C), BOG 1B (R20C) RNAV_(GNSS)

ELEV. ALT IN FEET

BEARINGS, TRACKS AND RADIALS ARE MAGNETIC VAR 31'E (2005)

DISTANCES IN NM



NOTE: RADAR REQUIRED

NOTE: REFER TO BACK PAGE FOR A) CONVENTIONAL **PROCEDURES** B) RADIO COM FAILURE **PROCEDURES** C) CROSS REFERENCE FROM NAVAID

GENERAL INFORMATION

ALL SIDs INCLUDE NOISE PREFERENTIAL ROUTES.

INITIAL DEPARTURE CLIMB ALTITUDE IS 3000FT OR

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

RWY 02L/C

FOR MINIMUM CLIMB GRADIENT CRITERIA

RWY 02L - SEE ENR 1.5-4 RWY 02C - SEE ENR 1.5-4

DEPARTURES SHALL BE ON A MINIMUM NET CLIMB GRADIENT OF 5% UNTIL REACHING OR PASSING 400FT, THEREAFTER 3.3%

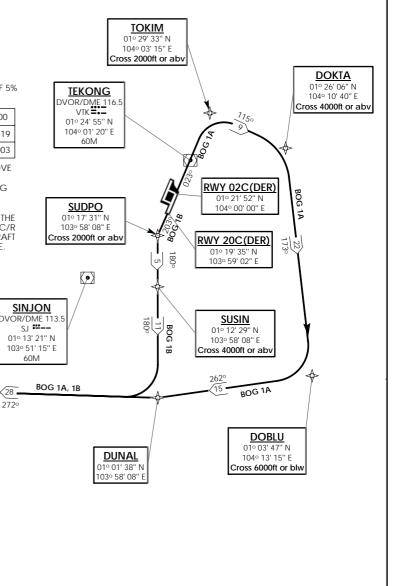
GND SPEED - KNOTS	75	100	150	200	250	300
5% V/V (fpm)	380	506	760	1013	1266	1519
3.3% V/V (fpm)	251	334	501	668	835	1003

THE RESTRICTION TO CROSS SUDPO OR SUNVA AT OR ABOVE 2000FT IS APPLICABLE BETWEEN 2301/1100 UTC

ALL DEPARTURE AIRCRAFT ON RWY 20C/R ISSUED WITH HEADING INSTRUCTIONS BY ATC SHALL ALSO CROSS 8 DME VTK AT OR ABOVE 2000FT BTN 2301/1100 UTC.

IF THE HEIGHT RESTRICTION CANNOT BE COMPLIED WITH, THE PILOT-IN-COMMAND OF AN AIRCRAFT DEPARTURE ON RWY 20C/R SHALL INFORM ATC DURING THE TIME WHEN THE AIRCRAFT COMMENCES TAXIING TO THE HOLDING POINT FOR DEPARTURE.

NOT TO SCALE



from SINJON DVOR

BOBAG 01° 02' 30" N 103° 29' 54" E

Cross 10000ft or abv

2100

3400)900 -- 🙍

2500

(A) BASIC RNAV DEPARTURES

For non-RNP1/P-RNAV approved aircraft or whose RNP1/P-RNAV capability have been degraded

BOBAG DEPARTURES

STANDARD DEPARTURE INSTRUMENT (SID)	RUNWAY	TAKE OFF INSTRUCTIONS	DEPARTURE INSTRUCTIONS	
Bobag one Alpha Departure (Bog 1A)	02C	CLIMB STRAIGHT AHEAD TO TOKIM. CROSS TOKIM AT OR ABOVE 2000FT. AT TOKIM TURN RIGHT AND TRACK 115° TO DOKTA THEN FOLLOW DEPARTURE INSTRUCTIONS.	AT DOKTA TURN RIGHT AND TRACK 173° TO DOBLU. CROSS DOKTA AT OR ABOVE 4 000FT. CROSS DOBLU AT OR BELOW 6 000FT OR AS DIRECTED BY ATC. AT DOBLU TURN RIGHT AND TRACK 262° TO DUNAL, THEN TRACK 272° TO BOBAG AND JOIN ATS ROUTE R469. CROSS BOBAG AT OR ABOVE 10 000FT	
BOBAG ONE BRAVO DEPARTURE (BOG 1B)	20C	CLIMB STRAIGHT AHEAD TO SUDPO. AT SUDPO TURN LEFT AND TRACK 180° TO SUSIN. CROSS SUDPO AT OR ABOVE 2 000FT. CROSS SUSIN AT OR ABOVE 4 000FT, THEN FOLLOW DEPARTURE INSTRUCTIONS.	AT SUSIN TRACK 180° TO DUNAL THEN TURN RIGHT AND TRACK 272° TO BOBAG AND JOIN ATS ROUTE R469. CROSS BOBAG AT OR ABOVE 10 000FT	

(B) RADIO COMMUNICATIONS FAILURE PROCEDURE

1	SET TRANSPONDER TO	MODE A/C CODE 7600			
2	COMMUNICATIONS FAILURE OCCURS IMMEDIATELY AFTER DEPARTURE ON:				
	(a) RWY 02C-	PROCEED STRAIGHT AHEAD TO NYLON HOLDING AREA(NHA) CLIMBING TO THE LAST ASSIGNED ALTITUDE, THEREAFTER REFER TO SINGAPORE AIP ON RADIO COMMUNICATIONS FAILURE PROCEDURE.			
	(b) RWY 20C-	Proceed Straight Ahead to Samko Holding Area(Sha) Climbing to the Last Assigned Altitude, Thereafter Refer to Singapore Aip on Radio Communications Failure Procedure.			

(C) RADIAL AND DME FROM VOR/DME

WAY POINTS	VTK VOR/DME	SJ VOR/DME
BOBAG	VTK R-234.7/D38.6	SJ R-243.2/D24.0
DOBLU	VTK R-150.4/D24.2	SJ R-113.4/D24.0
DOKTA	VTK R-083/D9.4	SJ R-057/R23.2
DUNAL	VTK R-187.9/D23.4	SJ R-149.4/D13.5
SUDPO	VTK R-203.4/D8.0	SJ R-059.0/D8.0
SUSIN	VTK R-194.5/D12.8	SJ R-097.2/D6.9
TOKIM	VTK R-022.7/D5.0	SJ R-036.7/D20.1