

STANDARD DEPARTURE CHART  
RNAV (GNSS) -  
INSTRUMENT (SID)

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 20C  
TAROS DEPARTURES  
TAROS 1B

ELEV, ALT IN FEET

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

DISTANCES IN NM

GENERAL INFORMATION

INITIAL CLIMB  
3000FT

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 VECTORED IF NECESSARY

NOTE: WHEN TAKEN OFF THE SID, AS INSTRUCTED BY ATC,  
REFER TO ENR 1.5, SECTION 3, PARAGRAPH 3.4.1  
- FOR RWY 20C MINIMUM CLIMB GRADIENT

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

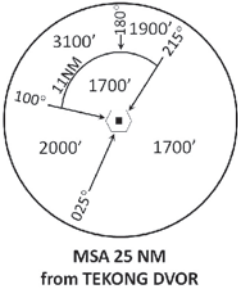
PROCEDURE INFORMATION

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

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

SID SHALL BE ON A MINIMUM CLIMB GRADIENT OF 7%  
UNTIL REACHING OR PASSING 2500FT, THEREAFTER 3.3%.

|                   |     |     |      |      |      |      |
|-------------------|-----|-----|------|------|------|------|
| GND SPEED - KNOTS | 75  | 100 | 150  | 200  | 250  | 300  |
| 7% V/V (fpm)      | 532 | 709 | 1063 | 1418 | 1772 | 2127 |
| 3.3% V/V (fpm)    | 251 | 334 | 501  | 668  | 835  | 1003 |



TEKONG  
DVOR/DME 116.5  
VTK  
01° 24' 55"N  
104° 01' 20" E  
60m

DER (RWY 20C)  
01° 19' 42.00"N  
103° 59' 05.00"E

IBIXU  
01° 16' 21"N  
103° 57' 40"E  
A015

IBIVA  
01° 13' 51"N  
103° 56' 37"E  
A025

SAMKO  
01° 05' 30"N  
103° 52' 55"E  
A040

BISOV  
00° 42' 29"N  
102° 52' 14"E

TAROS  
00° 42' 00"N  
102° 16' 12"E

ISGIL  
00° 42' 46"N  
103° 12' 57"E  
FL160  
FL140

VIBOG  
00° 43' 10"N  
103° 43' 02"E

NOT TO SCALE

TAROS 1B (SID) RNAV GNSS RWY 20C - DESCRIPTIONS

Formal & Abbreviated Descriptions

| Formal Description                          | Abbreviated Description  | Path Terminator | Fly-Over required |
|---------------------------------------------|--------------------------|-----------------|-------------------|
| To IBIXU on course 203° at or above 1500ft. | IBIXU [M203; A015+] -    | CF              | N                 |
| To IBIVA at or above 2500ft, turn right.    | IBIVA [A025+; R] -       | TF              | N                 |
| To SAMKO at or above 4000ft.                | SAMKO [A040+] -          | TF              | N                 |
| To VIBOG, turn right.                       | VIBOG [R] -              | TF              | N                 |
| To ISGIL, between FL140 to FL160.           | ISGIL [FL140+; FL160-] - | TF              | N                 |
| To BISOV.                                   | BISOV -                  | TF              | N                 |
| To TAROS.                                   | TAROS                    | TF              | N                 |

Tabular Descriptions

| Path Term | Waypoint Name | Fly-Over | Course °M(°T) | Distance (NM) | Turn Direction | Altitude         | Speed Limit | Navigation Spec |
|-----------|---------------|----------|---------------|---------------|----------------|------------------|-------------|-----------------|
| CF        | IBIXU         | -        | 203(203.4)    | 4.0           | -              | A015+            | -           | RNAV1           |
| TF        | IBIVA         | -        | 203(203.4)    | 3.0           | R              | A025+            | -           | RNAV1           |
| TF        | SAMKO         | -        | 204(204.4)    | 9.0           | -              | A040+            | -           | RNAV1           |
| TF        | VIBOG         | -        | 204(204.4)    | 24.0          | R              | -                | -           | RNAV1           |
| TF        | ISGIL         | -        | 269(269.4)    | 30.0          | -              | FL140+<br>FL160- | -           | RNAV1           |
| TF        | BISOV         | -        | 269(269.4)    | 21.0          | -              | -                | -           | RNAV1           |
| TF        | TAROS         | -        | 269(269.4)    | 36.0          | -              | -                | -           | RNAV1           |

Radio Communications Failure Procedure

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