INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 22ft
HEIGHT RELATED TO
THR RWY 20C - ELEV 15ft

MSA 25 NM from TEKONG DVOR
3400' 090° 1900' 2100' 180° 360°

D-ATIS	AP ID WSSS
	128.025
APP	124.05
	119.3
TWR	118.6
	118.25

SINGAPORE/ SINGAPORE CHANGI
ICC ILS/DME RWY 20C

103° 50'E 104° 00' 104° 10'

ALL ARRIVALS INTO WSSS WILL BE ISSUED INSTRUCTIONS BY ATC TO MAINTAIN 180KT TILL 8NM FROM TOUCHDOWN AND THEREAFTER 150KT TILL 4NM FROM TOUCHDOWN

RADAR REQUIRED

SIMULTANEOUS APPROACHES AUTHORIZED WITH RWY 20L OR 20R

VAR 0°23'E (2020)

BEARINGS ARE MAGNETIC
ALTITUDES, ELEVATIONS AND HEIGHTS ARE IN FEET

10 NM

ELALU
14.2 DME ICC
01°34' 39.87"N
104°05' 24.21"E
4 500

EGORA
16 DME ICC
01°36' 21.37"N
104°06' 07.23"E
4 500

203° 023° 203°

NYLON
16.7 DME ICC
VTK R-023/
13 DME

MNM ALT
3 000

ELBEB
7.8 DME ICC
01°28' 44.66"N
104°02' 54.38"E

(FAF)
ELMIN 2 500
4.6 DME ICC
01° 25' 49.68"N
104° 01' 40.51"E

203°

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

Pengerang Integrated Complex (PIC) Aircraft may overfly area at 2000ft and above.

PIC
2000ft
SFC

KUALA LUMPUR FIR

SINGAPORE FIR

Sembawang
Seletar
Paya Lebar

WSR6 200ft ALT GND
WSD35 900ft ALT GND
WSP3 750ft ALT GND
WSR16 200ft ALT GND
WSR38 10 000ft ALT GND
WSR9 200ft ALT GND
WSP24 800ft ALT GND/WATER
WSD34 500ft ALT GND

POSSIBLE VESSEL

(MAPT)
ESBIT
0.7 DME ICC
01°22' 12.07"N
104°00' 08.64"E

CAUTION :
Rwy 02R/20L closed due development works.

ESLUX
6.7 DME VTK
01° 18' 44.31"N
103° 58' 40.44"E

POSSIBLE VESSEL

130°

LLZ 109.7
ICC

NOTE:
MARITIME VESSELS OF VARIABLE HEIGHTS IN WATER NORTH AND SOUTH OF RWY

EXOMO
VTK R-158/
22 DME
01° 04' 25.49"N
104° 09' 33.17"E

VTK R-158° 158° 338°

MISSED APCH

MNM ALT
4 000

SINJON
DVOR/DME 113.5
SJ
01° 13' 19.28"N
103° 51' 20.08" E
60m

SCALE 1 : 400,000
1 0 1 2 3 4 5 6 7 8 9 km
1 0 1 2 3 4 5 NM

This procedure requires a missed approach climb gradient of 2.8% (171 ft/NM) until passing 2,000ft.
For aircraft which can only achieve a 2.5% (152 ft/NM) climb gradient, the CAT I OCA (OCH) is 315ft (300ft).

MISSED APPROACH
Climb to 4,000ft via VTK R-203 to ESLUX (6.7 DME VTK). At ESLUX turn left heading 130° to intercept VTK R-158 to EXOMO (VTK R-158/22 DME) and hold or AS DIRECTED BY ATC.

ILS/DME co-located with GP

ELEV 15
(THR RWY 20C)

CIRCLING NOT AUTHORIZED

(MAPT) **ESBIT** **0.7 DME ICC**
(FAF) **ELMIN** **4.6 DME ICC**
ELBEB **7.8 DME ICC**
ELALU **14.2 DME ICC** 4 500

203° GP 3° 2 500 1 500 420 (405)

ILS RDH 56

Transition Level : FL 130
Transition Alt : 11 000

0 0.5 4.4 5 7.6 10 14 15
NAUTICAL MILES FROM RWY THR 20C

* TIMING NOT AUTHORIZED WHEN GP INOP

Category of Aircraft		OCA (OCH) A	B	C	D	D_L
Straight-in	CAT I ILS	**166 (151)**	**180 (165)**	**196 (181)**	**209 (194)**	**212 (197)**
	CAT II ILS	**71 (56)**	**78 (63)**	**91 (76)**	**101 (86)**	**107 (92)**
	GP INOP	**420 (405)**				

Distance	4 DME	3 DME	2 DME
Altitude (Height)	**1290 (1275)**	**980 (965)**	**660 (645)**

Speed	knots	70	120	150	185
FAF - MAPT 3.9nm	min : s *	**3 : 21**	**1 : 57**	**1 : 34**	**1 : 16**
Rate of descent/GS	ft/min	**370**	**635**	**795**	**980**

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CHANGES : Pengerang Integrated Complex (PIC) added.