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eAIP

AMDT
04/2024
Effective date
11 JUL 2024
Publication date
11 JUL 2024

wp-AMDT-2024-04

1. Significant information and changes

1.1 Singapore FIR

a. Updated ENR 1.7 paragraph 4.4.1 - Quadrantal Cruising Levels table.

1.2 Singapore Changi Airport

a. Incorporated AIP Supplement 081/2024 –Singapore Changi Airport – Reinstatement of the Runway 20C Approach Lighting to 900 metres.

b. Updated WSSS – AD-2-WSSS-AOC-2, AD-2-WSSS-ADC-2, AD-2-WSSS-ADC-3, AD-2-WSSS-PATC-2 AND AD-2-WSSS-PATC-5.

c. Updated AD-2-WSSS-IAC-9.1 and AD-2-WSSS-IAC-12.1 to remove speed limitation for AKOMA and EXOMO.

d. Updated AD-2-WSSS-IAC-12 missed approach description, and tabular description altitude (height) for EXOMO to read as '4000 (3985)'.

e. Updated AD-2-WSSS-SID-35.1 formal and abbreviated descriptions, waypoint 'AROSO' to read as 'MASBO'.

2. This amendment incorporates information contained in the listed AIRAC AIP Supplement and NOTAM which are hereby superseded:

AIP Supplement
081/2024 dated 12/04/2024

NOTAM
A1758/2024 dated 30/05/2024
A1892/2024 dated 07/06/2024

Amended Pages

GEN 0.2-3: *: replace.*
GEN 0.3-1/2: *: replace.*
GEN 0.3-3/4: *: replace.*
GEN 0.3-5: *: replace.*
GEN 0.4-1/2: *: replace.*
GEN 0.4-3: *: replace.*
GEN 0.6-1/2: *: replace.*
GEN 1.1-1/2: *: replace.*
GEN 1.4-1/2: *: replace.*
GEN 1.6-1/2: *: replace.*
GEN 1.6-3/4: *: replace.*

GEN 1.6-5:	*: insert.*
GEN 3.2-3/4:	*: replace.*
GEN 3.2-5/6:	*: replace.*
GEN 3.3-1/2:	*: replace.*
ENR 1.7-3/4:	*: replace.*
ENR 4.1-1:	*: replace.*
AD 1.5-1:	*: replace.*
AD 2.WSSS-5/6:	*: replace.*
AD 2.WSSS-21/22:	*: replace.*
AD-2-WSSS-ADC-2 to 2.1:	*: replace.*
AD-2-WSSS-ADC-3:	*: replace.*
AD-2-WSSS-AOC-2:	*: replace.*
AD-2-WSSS-PATC-2:	*: replace.*
AD-2-WSSS-PATC-5:	*: replace.*
AD-2-WSSS-SID-35 to 35.1:	*: replace.*
AD-2-WSSS-IAC-9 to 9.1:	*: replace.*
AD-2-WSSS-IAC-12 to 12.1:	*: replace.*

AIP AMENDMENT

NR/Year	*Publication date*	*Date inserted*	*Inserted by*
02/2023	20 APR 2023	20 APR 2023	
03/2023	15 JUN 2023	15 JUN 2023	
04/2023	10 AUG 2023	10 AUG 2023	
05/2023	05 OCT 2023	05 OCT 2023	
06/2023	30 NOV 2023	30 NOV 2023	
01/2024	25 JAN 2024	25 JAN 2024	
02/2024	21 MAR 2024	21 MAR 2024	
03/2024	16 MAY 2024	16 MAY 2024	
04/2024	11 JUL 2024	11 JUL 2024	

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GEN 0.3 RECORD OF CURRENT AIP SUPPLEMENTS

NR/Year	*Subject*	*AIP section(s) affected*	*Period of validity (from/to)*	*Cancellation record*
021/2020	Singapore Changi Airport - Long term closure of aircraft stand E5 at Terminal 2, Singapore Changi Airport	AD	*30 MAR 2020 / 30 DEC 2024*	
059/2020	Singapore Changi Airport - Long term closure of aircraft stand E20 at Terminal 2, Singapore Changi Airport	AD	*25 AUG 2020 / 30 DEC 2026*	
161/2021	Singapore Changi Airport - Steel Frame	AD	*17 JAN 2022 / 17 DEC 2024*	
065/2023	Paya Lebar Airport - Luffing Tower Crane	AD	*11 MAY 2023 / 31 DEC 2024*	
068/2023	Paya Lebar Airport - Cranes	AD	*11 MAY 2023 / 31 DEC 2024*	
075/2023	Paya Lebar Airport - Topless Crane	AD	*08 JUN 2023 / 30 DEC 2024*	
076/2023	Paya Lebar Airport - Luffing Cranes	AD	*08 JUN 2023 / 30 DEC 2024*	
079/2023	Paya Lebar Airport - Mobile Crane	AD	*08 JUN 2023 / 31 DEC 2024*	
080/2023	Paya Lebar Airport - Mobile Cranes	AD	*08 JUN 2023 / 31 DEC 2024*	
083/2023	Paya Lebar Airport - Luffing Crane	AD	*08 JUN 2023 / 31 DEC 2024*	
092/2023	Paya Lebar Airport - Luffer Tower Crane	AD	*13 JUL 2023 / 31 DEC 2024*	
107/2023	Paya Lebar Airport - Mobile Crane	AD	*10 AUG 2023 / 31 JUL 2024*	
109/2023	Paya Lebar Airport - Mobile Crane	AD	*10 AUG 2023 / 31 AUG 2024*	
114/2023	Paya Lebar Airport - Cranes	AD	*10 AUG 2023 / 31 DEC 2024*	
115/2023	Paya Lebar Airport - Mobile Crane	AD	*10 AUG 2023 / 31 JUL 2024*	
117/2023	Paya Lebar Airport - Mobile Crane	AD	*07 SEP 2023 / 10 SEP 2024*	
121/2023	Paya Lebar Airport - Crawler Cranes	AD	*07 SEP 2023 / 31 DEC 2024*	
127/2023	Singapore Changi Airport - Closure of aircraft stand 604 at East Cargo Apron	AD	*02 NOV 2023 / 30 MAY 2025*	
129/2023	Seletar Airport - Closure of Helicopter Landing Area	AD	*28 SEP 2023 / 30 SEP 2024*	
130/2023	Paya Lebar Airport - Mobile Crane	AD	*12 OCT 2023 / 06 OCT 2024*	
131/2023	Paya Lebar Airport - Flat-Top Cranes	AD	*12 OCT 2023 / 31 OCT 2024*	
132/2023	Paya Lebar Airport - Topless Cranes	AD	*12 OCT 2023 / 30 SEP 2024*	
133/2023	Paya Lebar Airport - Mobile Cranes	AD	*12 OCT 2023 / 12 SEP 2024*	
134/2023	Paya Lebar Airport - Mobile Crane	AD	*12 OCT 2023 / 30 OCT 2024*	
135/2023	Paya Lebar Airport - Cranes	AD	*12 OCT 2023 / 10 SEP 2024*	
136/2023	Paya Lebar Airport - Cranes	AD	*12 OCT 2023 / 01 SEP 2024*	
139/2023	Singapore Changi Airport - Steel and Frangible Frames and Frangible Posts	AD	*30 NOV 2023 / 28 FEB 2025*	

NR/Year	*Subject*	*AIP section(s) affected*	*Period of validity (from/to)*	*Cancellation record*
140/2023	Singapore Changi Airport - Downgrade of Taxilane N4 behind aircraft stand 604 to max wingspan 36m (Code C) and downgrade of aircraft stand 603 to Code C	AD	*30 NOV 2023 / 30 MAY 2025*	
141/2023	Singapore Changi Airport - Apply minimum thrust at East Cargo Apron	AD	*23 OCT 2023 / 30 MAY 2025*	
143/2023	Paya Lebar Airport - Luffing Cranes	AD	*09 NOV 2023 / 31 DEC 2024*	
144/2023	Paya Lebar Airport - Mobile Cranes	AD	*09 NOV 2023 / 20 OCT 2024*	
145/2023	Paya Lebar Airport - Mobile Crane	AD	*09 NOV 2023 / 21 OCT 2024*	
146/2023	Paya Lebar Airport - Tower Luffer Cranes	AD	*09 NOV 2023 / 31 DEC 2024*	
147/2023	Paya Lebar Airport - Tower Cranes	AD	*09 NOV 2023 / 31 DEC 2024*	
149/2023	Paya Lebar Airport - Topless Cranes	AD	*09 NOV 2023 / 31 OCT 2024*	
151/2023	Paya Lebar Airport - Cranes	AD	*09 NOV 2023 / 08 OCT 2024*	
153/2023	Paya Lebar Airport - Tower Cranes	AD	*09 DEC 2023 / 08 DEC 2024*	
154/2023	Paya Lebar Airport - Topless Cranes	AD	*07 DEC 2023 / 01 DEC 2024*	
155/2023	Paya Lebar Airport - Luffing Cranes	AD	*07 DEC 2023 / 01 DEC 2024*	
156/2023	Paya Lebar Airport - Cranes	AD	*07 DEC 2023 / 31 JUL 2024*	
159/2023	Paya Lebar Airport - Cranes	AD	*07 DEC 2023 / 30 NOV 2024*	
160/2023	Paya Lebar Airport - Tower Cranes	AD	*08 DEC 2023 / 08 DEC 2024*	
161/2023	Paya Lebar Airport - Cranes	AD	*07 DEC 2023 / 30 NOV 2024*	
162/2023	Paya Lebar Airport - Luffing Tower Crane	AD	*07 DEC 2023 / 30 NOV 2024*	
001/2024	Paya Lebar Airport - Tower Cranes	AD	*11 JAN 2024 / 31 DEC 2024*	
002/2024	Paya Lebar Airport - Tower Cranes	AD	*11 JAN 2024 / 31 DEC 2024*	
003/2024	Paya Lebar Airport - Luffing Cranes	AD	*11 JAN 2024 / 31 DEC 2024*	
004/2024	Paya Lebar Airport - Crawler Cranes	AD	*11 JAN 2024 / 31 DEC 2024*	
005/2024	Paya Lebar Airport - Flat-Top Cranes	AD	*11 JAN 2024 / 31 DEC 2024*	
006/2024	Paya Lebar Airport - Cranes	AD	*11 JAN 2024 / 31 DEC 2025*	
007/2024	Paya Lebar Airport - Luffing Cranes	AD	*11 JAN 2024 / 31 DEC 2025*	
009/2024	Paya Lebar Airport - Luffing Crane	AD	*11 JAN 2024 / 31 DEC 2024*	
010/2024	Paya Lebar Airport - Mobile Crane	AD	*11 JAN 2024 / 31 AUG 2024*	
011/2024	Paya Lebar Airport - Tower Cranes	AD	*11 JAN 2024 / 31 DEC 2024*	
012/2024	Paya Lebar Airport - Mobile Crane	AD	*11 JAN 2024 / 31 DEC 2024*	
013/2024	Paya Lebar Airport - Flat-Top Cranes	AD	*11 JAN 2024 / 31 DEC 2024*	

NR/Year	Subject	AIP section(s) affected	Period of validity (from/to)	Cancellation record
014/2024	Paya Lebar Airport - Luffing Crane	AD	*11 JAN 2024 / 31 DEC 2024*	
015/2024	Paya Lebar Airport - Cranes	AD	*11 JAN 2024 / 30 DEC 2024*	
016/2024	Paya Lebar Airport - Luffer Crane	AD	*11 JAN 2024 / 31 DEC 2024*	
017/2024	Singapore Changi Airport - Closure of aircraft stand 504 at West Cargo Apron	AD	*22 FEB 2024 / 31 OCT 2025*	
020/2024	Paya Lebar Airport - Saddle Cranes	AD	*08 FEB 2024 / 31 DEC 2025*	
022/2024	Paya Lebar Airport - Topless Cranes	AD	*08 FEB 2024 / 30 NOV 2024*	
023/2024	Paya Lebar Airport - Luffing Tower Crane	AD	*08 FEB 2024 / 30 JUN 2025*	
024/2024	Paya Lebar Airport - Luffing Crane	AD	*08 FEB 2024 / 29 JAN 2025*	
025/2024	Paya Lebar Airport - Crawler Cranes	AD	*08 FEB 2024 / 31 JUL 2024*	
027/2024	Paya Lebar Airport - Topless Tower Cranes	AD	*08 FEB 2024 / 25 JAN 2025*	
028/2024	Paya Lebar Airport - Crawler Crane	AD	*08 FEB 2024 / 27 NOV 2024*	
029/2024	Paya Lebar Airport - Cranes	AD	*08 FEB 2024 / 20 JUL 2024*	
031/2024	Paya Lebar Airport - Tower Cranes	AD	*08 FEB 2024 / 19 DEC 2024*	
032/2024	Paya Lebar Airport - Topless Cranes	AD	*08 FEB 2024 / 31 DEC 2024*	
033/2024	Paya Lebar Airport - Mobile Cranes	AD	*08 FEB 2024 / 21 JUL 2024*	
035/2024	Paya Lebar Airport - Cranes	AD	*08 FEB 2024 / 31 DEC 2024*	
036/2024	Paya Lebar Airport - Cranes	AD	*08 FEB 2024 / 17 JUN 2025*	
037/2024	Paya Lebar Airport - Tower Crane	AD	*08 FEB 2024 / 31 DEC 2024*	
038/2024	Paya Lebar Airport - Luffer Cranes	AD	*08 FEB 2024 / 17 JUN 2025*	
039/2024	Paya Lebar Airport - Cranes	AD	*08 FEB 2024 / 31 DEC 2024*	
040/2024	Paya Lebar Airport - Luffing Cranes	AD	*08 FEB 2024 / 16 JAN 2025*	
041/2024	Paya Lebar Airport - Cranes	AD	*08 FEB 2024 / 31 DEC 2024*	
042/2024	Paya Lebar Airport - Topless Cranes	AD	*08 FEB 2024 / 16 JAN 2025*	
043/2024	Paya Lebar Airport - Crawler Tower Cranes	AD	*08 FEB 2024 / 16 FEB 2025*	
044/2024	Paya Lebar Airport - Luffer Cranes	AD	*08 FEB 2024 / 31 AUG 2025*	
045/2024	Paya Lebar Airport - Mobile Crane	AD	*08 FEB 2024 / 16 JAN 2025*	
046/2024	Paya Lebar Airport - Tower Cranes	AD	*08 FEB 2024 / 16 FEB 2025*	
047/2024	Paya Lebar Airport - Luffing Cranes	AD	*08 FEB 2024 / 30 DEC 2025*	
048/2024	Paya Lebar Airport - Cranes	AD	*08 FEB 2024 / 31 DEC 2025*	
049/2024	Paya Lebar Airport - Luffer Tower Crane	AD	*08 FEB 2024 / 10 JAN 2025*	

NR/Year	Subject	AIP section(s) affected	Period of validity (from/to)	Cancellation record
050/2024	Paya Lebar Airport - Topless Cranes	AD	*08 FEB 2024 / 10 JAN 2025*	
051/2024	Paya Lebar Airport - Luffing Tower Crane	AD	*08 FEB 2024 / 10 JAN 2025*	
052/2024	Paya Lebar Airport - Luffing Cranes	AD	*08 FEB 2024 / 10 JAN 2025*	
053/2024	Paya Lebar Airport - Topless Cranes	AD	*08 FEB 2024 / 16 FEB 2025*	
056/2024	Singapore Changi Airport - Updated closure schedules for Runway 02L/20R and Runway 02C/20C	AD	*31 MAR 2024 / 30 SEP 2025*	
058/2024	Paya Lebar Airport - Mobile Cranes	AD	*07 MAR 2024 / 29 SEP 2024*	
059/2024	Paya Lebar Airport - Mobile Crane	AD	*07 MAR 2024 / 29 SEP 2024*	
060/2024	Paya Lebar Airport - Mobile Cranes	AD	*07 MAR 2024 / 31 DEC 2024*	
061/2024	Paya Lebar Airport - Mobile Cranes	AD	*07 MAR 2024 / 30 SEP 2024*	
062/2024	Paya Lebar Airport - Mobile Crane	AD	*07 MAR 2024 / 31 JUL 2024*	
063/2024	Paya Lebar Airport - Cranes	AD	*07 MAR 2024 / 31 OCT 2024*	
064/2024	Paya Lebar Airport - Obstacles	AD	*07 MAR 2024 / 04 FEB 2025*	
065/2024	Paya Lebar Airport - Obstacles	AD	*07 MAR 2024 / 31 DEC 2024*	
068/2024	Airspace closure in support of Republic of Singapore Air Force (RSAF) operational requirements from 28 May to 11 August 2024	AD/ENR	*28 MAY 2024 / 11 AUG 2024*	
069/2024	Area of collection, formula of Route Air Navigation Services (RANS) charges, and other changes	GEN	*21 MAR 2024* PERM	
070/2024	Paya Lebar Airport - Crawler Tower Cranes	AD	*21 MAR 2024 / 31 MAR 2025*	
072/2024	Singapore Changi Airport - Closure of Runway 02R/20L, Taxiway closures and restrictions	AD	*16 MAY 2024 / 31 OCT 2024*	
073/2024	Paya Lebar Airport - Topless Cranes	AD	*11 APR 2024 / 31 JUL 2024*	
074/2024	Paya Lebar Airport - Cranes	AD	*11 APR 2024 / 25 APR 2025*	
075/2024	Paya Lebar Airport - Mobile Cranes	AD	*11 APR 2024 / 01 APR 2025*	
076/2024	Paya Lebar Airport - Mobile Crane	AD	*11 APR 2024 / 06 AUG 2024*	
077/2024	Paya Lebar Airport - Cranes	AD	*11 APR 2024 / 31 DEC 2024*	
078/2024	Paya Lebar Airport - Mobile Crane	AD	*11 APR 2024 / 23 AUG 2024*	
079/2024	Paya Lebar Airport - Mobile Crane	AD	*11 APR 2024 / 20 SEP 2024*	
080/2024	Paya Lebar Airport - Mobile Crane	AD	*11 APR 2024 / 31 JUL 2024*	
082/2024	Singapore Changi Airport - New Taxiways between Taxiway B and Taxiway D	AD	*13 JUN 2024* PERM	

NR/Year	*Subject*	*AIP section(s) affected*	*Period of validity (from/to)*	*Cancellation record*
083/2024	Singapore Changi Airport - Decommissioning of aircraft stands E1 and F30 and temporary closure of taxilanes R1, R2, R3 and aircraft stands E2, E3, E4, F31, F32, F33 and F34 due to construction work activities at Terminal 2	AD	*09 MAY 2024 / 03 JAN 2028*	
084/2024	Paya Lebar Airport - Cranes	AD	*09 MAY 2024 / 31 DEC 2024*	
085/2024	Paya Lebar Airport - Mobile Crane	AD	*09 MAY 2024 / 30 OCT 2024*	
086/2024	Paya Lebar Airport - Cranes	AD	*09 MAY 2024 / 01 MAY 2025*	
087/2024	Paya Lebar Airport - Cranes	AD	*09 MAY 2024 / 25 APR 2025*	
088/2024	Paya Lebar Airport - Mobile Crane	AD	*09 MAY 2024 / 31 DEC 2024*	
089/2024	Paya Lebar Airport - Mobile Cranes	AD	*09 MAY 2024 / 15 APR 2025*	
090/2024	Paya Lebar Airport - Mobile Crane	AD	*09 MAY 2024 / 31 DEC 2024*	
091/2024	Paya Lebar Airport - Topless Cranes	AD	*09 MAY 2024 / 15 APR 2025*	
092/2024	Paya Lebar Airport - Mobile Crane	AD	*09 MAY 2024 / 30 AUG 2024*	
093/2024	Paya Lebar Airport - Flat-Top Crane	AD	*09 MAY 2024 / 10 APR 2025*	
094/2024	Paya Lebar Airport - Crawler Crane	AD	*09 MAY 2024 / 30 SEP 2025*	
095/2024	Paya Lebar Airport - Topless Tower Cranes	AD	*06 JUN 2024 / 02 JUN 2025*	
096/2024	Paya Lebar Airport - Obstacles	AD	*06 JUN 2024 / 31 AUG 2024*	
097/2024	Paya Lebar Airport - Cranes	AD	*06 JUN 2024 / 19 MAY 2025*	
098/2024	Paya Lebar Airport - Mobile Cranes	AD	*06 JUN 2024 / 31 DEC 2024*	
099/2024	Paya Lebar Airport - Cranes	AD	*06 JUN 2024 / 14 MAY 2025*	
100/2024	Paya Lebar Airport - Luffer Cranes	AD	*06 JUN 2024 / 15 MAY 2025*	
101/2024	Paya Lebar Airport - Luffing Crane	AD	*06 JUN 2024 / 16 MAY 2025*	
102/2024	Paya Lebar Airport - Mobile Crane	AD	*06 JUN 2024 / 10 OCT 2024*	
103/2024	Paya Lebar Airport - Mobile Crane	AD	*06 JUN 2024 / 10 SEP 2024*	

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GEN 0.4 CHECKLIST OF AIP PAGES

Part 1 – General (GEN)

GEN 0

GEN 0.1-1	26 MAR 2020
GEN 0.1-2	05 OCT 2023
GEN-0.1-3	19 MAY 2022
GEN 0.2-1	13 SEP 2018
GEN 0.2-2	23 FEB 2023
GEN 0.2-3	11 JUL 2024
GEN 0.3-1	11 JUL 2024
GEN 0.3-2	11 JUL 2024
GEN 0.3-3	11 JUL 2024
GEN 0.3-4	11 JUL 2024
GEN 0.3-5	11 JUL 2024
GEN 0.4-1	11 JUL 2024
GEN 0.4-2	11 JUL 2024
GEN 0.4-3	11 JUL 2024
GEN 0.5-1	30 JAN 2020
GEN 0.6-1	16 MAY 2024
GEN 0.6-2	11 JUL 2024
GEN 0.6-3	21 MAR 2024

GEN 1

GEN 1.1-1	16 MAY 2024
GEN 1.1-2	11 JUL 2024
GEN 1.2-1	21 MAR 2024
GEN 1.2-2	30 NOV 2023
GEN 1.2-3	25 JAN 2024
GEN 1.2-4	25 JAN 2024
GEN 1.2-5	25 JAN 2024
GEN 1.2-6	21 MAR 2024
GEN 1.2-7	21 MAR 2024
GEN 1.3-1	16 MAY 2024
GEN 1.3-2	16 MAY 2024
GEN 1.3-3	16 MAY 2024
GEN 1.3-4	16 MAY 2024
GEN 1.3-5	16 MAY 2024
GEN 1.3-6	16 MAY 2024
GEN-1.3/ARR PAX FLOW	25 APR 2019
GEN-1.3/DEP PAX FLOW 1	25 APR 2019
GEN-1.3/DEP PAX FLOW 2	25 APR 2019
GEN 1.4-1	11 JUL 2024
GEN 1.4-2	16 MAY 2024
GEN 1.5-1	21 MAR 2024
GEN 1.6-1	21 MAR 2024
GEN 1.6-2	11 JUL 2024
GEN 1.6-3	11 JUL 2024
GEN 1.6-4	11 JUL 2024
GEN 1.6-5	11 JUL 2024
GEN 1.7-1	08 SEP 2022
GEN 1.7-2	23 FEB 2023
GEN 1.7-3	23 FEB 2023
GEN 1.7-4	25 JAN 2024

GEN 2

GEN 2.1-1	24 MAR 2022
GEN 2.1-2	05 OCT 2023
GEN 2.2-1	02 MAR 2017
GEN 2.2-2	02 MAR 2017
GEN 2.2-3	21 MAR 2024
GEN 2.2-4	21 MAR 2024
GEN 2.2-5	21 MAR 2024
GEN 2.3-1	12 NOV 2015
GEN 2.3-2	12 NOV 2015
GEN 2.3-3	12 NOV 2015
GEN 2.4-1	21 MAR 2024
GEN 2.5-1	21 MAR 2024
GEN-2.5-3	21 MAR 2024
GEN 2.6-1	12 NOV 2015
GEN 2.6-2	12 NOV 2015
GEN 2.7-1	05 DEC 2019

GEN 3

GEN 3.1-1	16 MAY 2024
GEN 3.1-2	21 MAR 2024
GEN 3.1-3	02 DEC 2021
GEN 3.1-4	19 MAY 2022
GEN 3.2-1	19 MAY 2022
GEN 3.2-2	31 MAR 2016
GEN 3.2-3	31 MAR 2016
GEN 3.2-4	11 JUL 2024
GEN 3.2-5	11 JUL 2024
GEN 3.2-6	19 MAY 2022
GEN 3.3-1	19 MAY 2022
GEN 3.3-2	11 JUL 2024
GEN 3.4-1	16 MAY 2024
GEN 3.4-2	16 MAY 2024
GEN 3.4-3	10 SEP 2020
GEN 3.4-4	19 MAY 2022
GEN 3.4-5	21 MAR 2024
GEN-3.4-7	10 SEP 2020
GEN-3.4-9	21 MAR 2024
GEN 3.5-1	21 MAR 2024
GEN 3.5-2	21 MAR 2024
GEN 3.5-3	21 MAR 2024
GEN 3.5-4	21 MAR 2024
GEN 3.5-5	21 MAR 2024
GEN 3.5-6	21 MAR 2024
GEN 3.5-7	21 MAR 2024
GEN 3.5-8	21 MAR 2024
GEN 3.5-9	21 MAR 2024
GEN 3.6-1	16 MAY 2024
GEN 3.6-2	21 MAR 2024
GEN 3.6-3	07 OCT 2021
GEN 3.6-4	21 MAR 2024
GEN-3.6-5	21 MAR 2024

GEN 4

GEN 4.1-1	14 JUL 2022
GEN 4.2-1	24 MAY 2018
GEN 4.2-2	12 NOV 2015
GEN 4.2-3	12 NOV 2015
GEN 4.2-4	12 NOV 2015
GEN 4.2-5	12 NOV 2015
GEN 4.2-6	12 NOV 2015

Part 2 – EN-ROUTE (ENR)

ENR 0

ENR 0.6-1	16 MAY 2024
ENR 0.6-2	16 MAY 2024
ENR 0.6-3	16 MAY 2024
ENR 0.6-4	16 MAY 2024
ENR 0.6-5	16 MAY 2024
ENR 0.6-6	21 MAR 2024

ENR 1

ENR 1.1-1	16 MAY 2024
ENR 1.1-2	16 MAY 2024
ENR 1.1-3	16 MAY 2024
ENR 1.1-4	16 MAY 2024
ENR 1.1-5	16 MAY 2024
ENR 1.1-6	16 MAY 2024
ENR 1.1-7	16 MAY 2024
ENR 1.1-8	16 MAY 2024
ENR 1.1-9	16 MAY 2024
ENR 1.1-10	16 MAY 2024
ENR 1.1-11	16 MAY 2024
ENR 1.1-12	16 MAY 2024
ENR 1.1-13	16 MAY 2024
ENR 1.2-1	21 MAR 2024
ENR 1.3-1	21 MAR 2024
ENR 1.4-1	21 MAR 2024
ENR 1.5-1	21 MAR 2024
ENR 1.5-2	21 MAR 2024
ENR 1.5-3	16 MAY 2024
ENR 1.5-4	16 MAY 2024
ENR 1.6-1	25 JAN 2024
ENR 1.6-2	25 JAN 2024
ENR 1.6-3	25 JAN 2024
ENR 1.6-4	25 JAN 2024
ENR 1.6-5	25 JAN 2024
ENR 1.6-6	25 JAN 2024
ENR 1.6-7	25 JAN 2024
ENR 1.6-8	21 MAR 2024
ENR 1.6-9	25 JAN 2024
ENR 1.6-10	21 MAR 2024
ENR 1.7-1	21 MAR 2024
ENR 1.7-2	16 MAY 2024
ENR 1.7-3	16 MAY 2024
ENR 1.7-4	11 JUL 2024
ENR 1.7-5	16 MAY 2024
ENR 1.7-6	16 MAY 2024
ENR 1.7-7	16 MAY 2024
ENR 1.8-1	16 MAY 2024
ENR 1.8-2	16 MAY 2024
ENR 1.8-3	16 MAY 2024
ENR 1.8-4	16 MAY 2024
ENR 1.8-5	16 MAY 2024
ENR 1.8-6	16 MAY 2024
ENR 1.8-7	16 MAY 2024
ENR 1.8-8	16 MAY 2024
ENR 1.8-9	16 MAY 2024
ENR 1.8-10	16 MAY 2024
ENR 1.8-11	16 MAY 2024
ENR 1.8-12	16 MAY 2024
ENR 1.8-13	16 MAY 2024
ENR 1.8-14	16 MAY 2024
ENR 1.8-15	16 MAY 2024
ENR 1.8-16	16 MAY 2024
ENR 1.8-17	16 MAY 2024
ENR 1.8-18	16 MAY 2024
ENR 1.8-19	16 MAY 2024
ENR 1.8-20	16 MAY 2024
ENR 1.8-21	16 MAY 2024
ENR 1.8-22	16 MAY 2024
ENR 1.8-23	16 MAY 2024
ENR 1.8-24	16 MAY 2024
ENR 1.8-25	16 MAY 2024
ENR 1.8-26	16 MAY 2024
ENR 1.8-27	16 MAY 2024
ENR 1.8-28	16 MAY 2024
ENR 1.9-1	16 MAY 2024
ENR 1.9-2	16 MAY 2024
ENR 1.9-3	16 MAY 2024
ENR 1.9-4	16 MAY 2024
ENR 1.9-5	16 MAY 2024
ENR 1.10-1	16 MAY 2024
ENR 1.10-2	16 MAY 2024
ENR 1.10-3	21 MAR 2024
ENR 1.11-1	21 MAR 2024
ENR 1.12-1	12 NOV 2015
ENR 1.12-2	12 NOV 2015
ENR 1.12-3	12 NOV 2015
ENR 1.12-4	12 NOV 2015
ENR 1.13-1	12 NOV 2015
ENR 1.14-1	16 MAY 2024
ENR 1.14-2	16 MAY 2024
ENR-1.14-3 to ENR-1.14-4	15 SEP 2016
ENR-1.14-5 to ENR-1.14-6	15 SEP 2016
ENR-1.14-7 to ENR-1.14-8	15 AUG 2019

ENR 2

ENR 2.1-1	16 MAY 2024
ENR 2.1-2	16 MAY 2024
ENR 2.1-3	16 MAY 2024
ENR 2.1-4	16 MAY 2024
ENR 2.1-5	16 MAY 2024
ENR-2.1-7	21 MAR 2024
ENR-2.1-9	21 MAR 2024
ENR-2.1-11A	21 JUL 2016
ENR-2.1-11B	08 SEP 2022
ENR-2.1-13	21 JUL 2016
ENR-2.1-14	21 MAR 2024

ENR 3

ENR 3.1-1	21 MAR 2024
ENR 3.1-2	21 MAR 2024
ENR 3.1-3	21 MAR 2024
ENR 3.1-4	21 MAR 2024

AD-2-WSSS-SID-45 to 45.1	21 MAR 2024
AD-2-WSSS-SID-46 to 46.1	21 MAR 2024
AD-2-WSSS-SID-47 to 47.1	21 MAR 2024
AD-2-WSSS-SID-48 to 48.1	21 MAR 2024
AD-2-WSSS-SID-49 to 49.1	21 MAR 2024
AD-2-WSSS-SID-50 to 50.1	21 MAR 2024
AD-2-WSSS-SID-51 to 51.1	21 MAR 2024
AD-2-WSSS-SID-52 to 52.1	21 MAR 2024
AD-2-WSSS-SID-53 to 53.1	21 MAR 2024
AD-2-WSSS-SID-54 to 54.1	21 MAR 2024
AD-2-WSSS-SID-55 to 55.1	21 MAR 2024
AD-2-WSSS-SID-56 to 56.1	21 MAR 2024
AD-2-WSSS-SID-57 to 57.1	21 MAR 2024
AD-2-WSSS-SID-58 to 58.1	21 MAR 2024
AD-2-WSSS-SID-59 to 59.1	21 MAR 2024
AD-2-WSSS-SID-60 to 60.1	21 MAR 2024
AD-2-WSSS-SID-61 to 61.1	21 MAR 2024
AD-2-WSSS-SID-62 to 62.1	21 MAR 2024
AD-2-WSSS-SID-63 to 63.1	21 MAR 2024
AD-2-WSSS-SID-64 to 64.1	21 MAR 2024
AD-2-WSSS-STAR-1 to 1.1	21 MAR 2024
AD-2-WSSS-STAR-2 to 2.1	21 MAR 2024
AD-2-WSSS-STAR-3 to 3.1	21 MAR 2024
AD-2-WSSS-STAR-4 to 4.1	21 MAR 2024
AD-2-WSSS-STAR-5 to 5.1	21 MAR 2024
AD-2-WSSS-STAR-6 to 6.1	21 MAR 2024
AD-2-WSSS-STAR-7 to 7.1	21 MAR 2024
AD-2-WSSS-STAR-8 to 8.1	21 MAR 2024
AD-2-WSSS-STAR-9 to 9.1	16 MAY 2024
AD-2-WSSS-STAR-10 to 10.1	16 MAY 2024
AD-2-WSSS-STAR-11 to 11.1	21 MAR 2024
AD-2-WSSS-STAR-12 to 12.1	21 MAR 2024
AD-2-WSSS-STAR-13 to 13.1	21 MAR 2024
AD-2-WSSS-STAR-14 to 14.1	21 MAR 2024
AD-2-WSSS-STAR-15 to 15.1	21 MAR 2024
AD-2-WSSS-STAR-16 to 16.1	21 MAR 2024
AD-2-WSSS-STAR-17 to 17.1	21 MAR 2024
AD-2-WSSS-STAR-18 to 18.1	21 MAR 2024
AD-2-WSSS-STAR-19 to 19.1	21 MAR 2024
AD-2-WSSS-IAC-1	16 MAY 2024
AD-2-WSSS-IAC-2	16 MAY 2024
AD-2-WSSS-IAC-3	16 MAY 2024
AD-2-WSSS-IAC-5	16 MAY 2024
AD-2-WSSS-IAC-6	16 MAY 2024
AD-2-WSSS-IAC-7	16 MAY 2024
AD-2-WSSS-IAC-9 to 9.1	11 JUL 2024
AD-2-WSSS-IAC-10 to 10.1	21 MAR 2024
AD-2-WSSS-IAC-11 to 11.1	21 MAR 2024
AD-2-WSSS-IAC-12 to 12.1	11 JUL 2024
AD-2-WSSS-IAC-13 to 13.1	21 MAR 2024
AD-2-WSSS-IAC-14 to 14.1	21 MAR 2024
AD-2-WSSS-VAC-1 to 1.1	21 MAR 2024
AD 2.WSSL-1	10 SEP 2020
AD 2.WSSL-2	30 NOV 2023
AD 2.WSSL-3	30 NOV 2023
AD 2.WSSL-4	05 DEC 2019
AD 2.WSSL-5	30 NOV 2023
AD 2.WSSL-6	25 JAN 2024
AD 2.WSSL-7	21 MAR 2024
AD 2.WSSL-8	08 SEP 2022
AD 2.WSSL-9	25 JAN 2024
AD 2.WSSL-10	21 MAR 2024
AD 2.WSSL-11	21 MAR 2024
AD 2.WSSL-12	21 MAR 2024
AD 2.WSSL-13	21 MAR 2024
AD 2.WSSL-14	21 MAR 2024
AD 2.WSSL-15	21 MAR 2024
AD 2.WSSL-16	21 MAR 2024
AD 2.WSSL-17	21 MAR 2024
AD 2.WSSL-18	21 MAR 2024
AD 2.WSSL-19	21 MAR 2024
AD 2.WSSL-20	21 MAR 2024
AD-2-WSSL-ADC-1 to 1.1	16 MAY 2024
AD-2-WSSL-ADC-2	21 MAR 2024
AD-2-WSSL-ADC-3	03 NOV 2022
AD-2-WSSL-AOC-1	16 JUL 2020
AD-2-WSSL-AOC-2	16 JUL 2020
AD-2-WSSL-VAC-1	08 SEP 2022
AD-2-WSSL-VAC-2	08 SEP 2022
AD-2-WSSL-VAC-3	08 SEP 2022
AD-2-WSSL-VAC-4	08 SEP 2022
AD-2-WSSL-VDC-1 to 1.1	08 SEP 2022
AD-2-WSSL-VDC-2 to 2.1	08 SEP 2022
AD-2-WSSL-VFR-1	21 MAR 2024
AD-2-WSSL-IFR-1	21 MAR 2024
AD-2-WSSL-IFR-2	21 MAR 2024
AD 2.WSAP-1	16 JUL 2020
AD 2.WSAP-2	19 JUL 2018
AD 2.WSAP-3	10 OCT 2019
AD 2.WSAP-4	19 JUL 2018
AD 2.WSAP-5	10 OCT 2019
AD 2.WSAP-6	12 OCT 2017
AD 2.WSAP-7	19 JUL 2018
AD 2.WSAP-8	16 MAY 2024
AD 2.WSAP-9	21 MAR 2024
AD 2.WSAP-10	21 MAR 2024
AD 2.WSAP-11	21 MAR 2024
AD-2-WSAP-ADC-1	16 JUL 2020
AD-2-WSAP-ADC-2	16 JUL 2020
AD-2-WSAP-AOC-1	24 MAR 2022
AD-2-WSAP-IAC-1	25 JAN 2024
AD-2-WSAP-IAC-2	16 MAY 2024
AD-2-WSAP-IAC-3	16 MAY 2024
AD-2-WSAP-IAC-4	16 MAY 2024
AD-2-WSAP-IAC-5	21 MAR 2024
AD-2-WSAP-IAC-6	16 MAY 2024
AD 2.WSAT-1	16 JUL 2020
AD 2.WSAT-2	26 MAR 2020
AD 2.WSAT-3	25 FEB 2021
AD 2.WSAT-4	25 FEB 2021
AD 2.WSAT-5	16 MAY 2024
AD 2.WSAT-6	21 MAR 2024
AD 2.WSAT-7	21 MAR 2024
AD-2-WSAT-ADC-1	17 JUN 2021
AD 2.WSAG-1	25 JAN 2024
AD 2.WSAG-2	25 JAN 2024
AD 2.WSAG-3	21 MAR 2024
AD 2.WMKJ-1	12 NOV 2015
AD 2.WIDD-1	21 MAR 2024
AD 2.WIDN-1	21 MAR 2024
AD 2.WIDN-2	21 MAR 2024
AD 2.WIDT-1	21 MAR 2024

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GEN 0.6 TABLE OF CONTENTS TO PART 1

GEN 1 NATIONAL REGULATIONS AND REQUIREMENTS

GEN 1.1 DESIGNATED AUTHORITIES

The authority responsible for civil aviation in Singapore is the Civil Aviation Authority of Singapore under the Ministry of Transport. The addresses of the designated authorities concerned with facilitation of international air navigation are as follows:

1 CIVIL AVIATION

Post:
CIVIL AVATION AUTHORITY OF SINGAPORE
SINGAPORE CHANGI AIRPORT, P.O. BOX 1
SINGAPORE 918141
Tel: (65) 65421122
Fax: (65) 65421231
AFS: WSSSYAYX
URL: www.caas.gov.sg

2 METEOROLOGY

Post:
DIRECTOR-GENERAL METEOROLOGICAL SERVICE SINGAPORE
Singapore Changi Airport, P.O. Box 8
SINGAPORE 918141
Tel: (65) 65457190
Fax: (65) 65457192
AFS: WSSSYMYX
URL: www.weather.gov.sg

3 CUSTOMS

Post:
SINGAPORE CUSTOMS
55 Newton Road #07-01, Revenue House
SINGAPORE 307987
Tel: (65) 63552000
Fax: (65) 62508663
URL: www.customs.gov.sg

4 IMMIGRATION

Post:
IMMIGRATION & CHECKPOINTS AUTHORITY
10 Kallang Road, #08-00 ICA Building
SINGAPORE 208718
Tel: (65) 63916100
URL: www.ica.gov.sg

5 HEALTH

Post:
MINISTRY OF HEALTH
16 College Road, College of Medicine Building
SINGAPORE 169854
Tel: (65) 63259220
URL: www.moh.gov.sg

6 ENROUTE AND AERODROME CHARGES

Post:
CIVIL AVIATION AUTHORITY OF SINGAPORE
Singapore Changi Airport P.O. Box 1
SINGAPORE 918141
Tel: (65) 65421122
Fax: (65) 65421231
AFS: WSSSYAYX

Post:
CHANGI AIRPORT GROUP (S) PTE LTD
SELETAR AIRPORT
21 Seletar Aerospace Road 1 #02-01
SINGAPORE 797405
Tel: (65)64815077 Airside Operations
Fax: (65)64831754

7 AGRICULTURE QUARANTINE

Post:
Head Office: ANIMAL & VETERINARY SERVICE
JEM Office Tower Level 9, 52 Jurong Gateway Road
SINGAPORE 608550
Email: animals_feedback@nparks.gov.sg
← URL: www.nparks.gov.sg/avs

Post:
CHANGI ANIMAL AND PLANT QUARANTINE STATION
Gate C7, Airport Cargo Road Changi Airfreight Centre
SINGAPORE 918104
Tel: (65) 65457523

8 TRANSPORT SAFETY INVESTIGATION BUREAU

Post:
Director (TSIB)
MINISTRY OF TRANSPORT
c/o Changi Airport Post Office P.O. Box 1005
SINGAPORE 918155
Tel: (65) 65412798
Fax: (65) 65422394
URL: www.mot.gov.sg

GEN 1.4 ENTRY, TRANSIT AND DEPARTURE OF CARGO

1 CUSTOMS REQUIREMENTS CONCERNING CARGO AND OTHER ARTICLES

1.1 The following supporting documents: Airway Bill, Commercial Invoice, Packing List together with Customs Permits [for all goods including controlled goods, dutiable goods and goods subject to Goods and Services Tax (GST)] are to be produced if they are required for checks by Immigration and Checkpoints Authority officers at the checkpoint.

1.2 The following are applicable to the Free Trade Zone (FTZ):

a. Transhipment within the same FTZ (In Through Airway Bill cases), no Customs documentation is required if the items are not controlled by the Competent Authorities (CAs);
b. Transhipment of controlled goods within the same FTZ (In Through Airway Bill cases), a transhipment (Through transhipment within the same FTZ) permit is required;
c. Import for re-export within the same FTZ (In Non-Through Airway Bill cases) without storage, an import for re-export permit is required for the importation and exportation of the goods; and
d. For the temporary storage of imported goods (excluding liquors and tobacco) in the Free Trade Zones, pending re-export to another destination or pending local release, an import permit is required. Subsequently for exportation, an export permit is required to be taken up.

1.3 Under the Strategic Goods (Control) Act (SGCA), goods in transhipment or transit are subject to controls under the full control list. No clearance documents are required for strategic goods in transhipment or transit which are taken into a FTZ immediately after they have been brought into Singapore and stay in the FTZ for not more than 45-days (for sea) / 21-days (for air) except for certain categories of goods. For transhipment and transit of certain sensitive strategic goods (listed under the Fourth and Fifth Schedule of the SGCR) and goods that are intended or likely to be used for nuclear, chemical or biological weapon purposes, or missiles capable of delivering such weapons (i.e. catch-all for WMD purposes), a strategic good permit is still required. Depending on the conditions stated in the permits, these goods may be required to be presented for Customs clearance at the checkpoint

1.4 For the exportation of dutiable goods from a Licensed Warehouse, or non-dutiable goods from a Zero-GST Warehouse, Customs outward permits and goods are to be presented for checkpoint inspection and clearance.

1.5 For the importation and exportation of controlled goods, depending on the Competent Authorities'(CA) requirements, these goods may be required to be presented for Customs clearance at the checkpoint. For more information on the list of Controlled and Prohibited Goods for the importation and exportation of goods, please visit the respective pages on the Singapore Customs website. You may also refer to the Strategic Goods and the United Nations Security Council Sanctions webpages for more information on the relevant topics.

2 REQUIREMENTS FOR ANIMALS, BIRDS, PLANTS, VETERINARY BIOLOGICS, ORNAMENTAL FISH, CITES AND THEIR PRODUCTS

2.1 Prior permission of the Singapore Food Agency (SFA) is required for import, export or transhipment of:

a. Animals, birds for the purpose of rearing and slaughter for human consumption, animal feed for food producing animals, eggs and egg products, meat and meat products (including canned or processed meat).
b. Fish and aquatic animals (for rearing as food and for human consumption, fisheries products (in all forms).
c. Fruits and vegetables.
d. Processed food products and food contact articles.

2.2 Prior permission of the Animal & Veterinary Service (AVS) is required for import, export or transhipment of:

a. Animals and animal products (including veterinary biologics, pet food and fertilizers containing animal products), birds, plants, ornamental fish.

2.3 Prior permission of the National Parks Board (NParks) is required for the import of:

a. Plants and propagatable plant parts including cuttings, seeds and bulbs with or without potting medium, organic fertilisers of plant origin, live insects and microorganisms.

2.4 In the case of live animals, prior permission is also required for animals in transit. No prior permission required for transhipment of plants and plant products.

2.5 Prior permission of the National Parks Board (NParks) is required for the import, export and re-export of all species of animals and plants, including their parts or derivatives protected under the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES).

3 REQUIREMENTS RELATING TO ARMS AND EXPLOSIVES

3.1 Arms, explosives and explosives precursors are items regulated under the Arms & Explosives Act, Chapter 13. Under the said Act, any import or export of any of these items will require a licence from the Police Licensing & Regulatory Department (PLRD). For avoidance of any doubt, any transhipment (i.e. import of goods into Singapore on one conveyance and moved to another conveyance for the sole purpose of export to any place outside of Singapore) would similarly require an import and export licence respectively.

3.2 Application for the necessary licences can be submitted via Singapore Custom's TradeNet website (for traders) or GoBusiness website (https://www.gobusiness.gov.sg). More information can be obtained from PLRD's website at https://www.police.gov.sg/licence or email: spf_licensing_feedback@spf.gov.sg.

4 REQUIREMENTS FOR THE CARRIAGE OF DANGEROUS GOODS IN AIRCRAFT

4.1 DANGEROUS GOODS

4.1.1 Regulation 5(1) of Air Navigation (92-Carriage of Dangerous Goods) Regulations 2022 states that an operator of an aircraft must not load or carry any dangerous goods as cargo on its aircraft unless the operator of the aircraft has been granted a dangerous permit by CAAS and in accordance with any conditions which CAAS may impose. This requirement applies to all aircraft operated for the purpose of commercial air transport flying to or from the Republic of Singapore, and without an authorisation granted under regulation 14 of Air Navigation (121-Commercial Air Transport by Large Aeroplanes) Regulations 2018 or regulation 14 of Air Navigation (135-Commercial Air Transport by Helicopters and Small Aeroplanes) Regulations 2018.

4.1.2 Where an operator of an aircraft has diplomatic clearance from the Government of Singapore to land the aircraft in Singapore, the operator is not required, for the period of time that the diplomatic clearance is valid, to obtain a dangerous goods permit.

4.1.3 A dangerous goods permit, if granted, is subject to compliance with Annex 18 to the Convention on International Civil Aviation and the latest edition of the ICAO Technical Instructions relating to the Safe Transport of Dangerous Goods by Air.

4.1.4 Operators of aircraft that wish to carry dangerous goods as cargo should submit their online application for a dangerous goods permit via the Enterprise Safety Oversight Management System (eSOMS) at https://esoms.caas.gov.sg/esoms/landingpage.html. Applications should be submitted at least 7 working days prior to the intended date of carriage of the dangerous goods cargo. New applicants may write to Dangerous Goods Section, Flight Standards Division, CAAS (email: CAAS_dangerousgoods@caas.gov.sg), to request for an eSOMS account.

5 REPORTING OF DANGEROUS GOODS ACCIDENT/INCIDENT

5.1 Regulation 24(1) of Air Navigation (92-Carriage of Dangerous Goods) Regulations 2022 requires the operator of an aircraft to report to the Director-General of Civil Aviation:

a. any dangerous goods accident or incident involving any aircraft that lands in or departs from Singapore; or
b. the finding of undeclared or misdeclared dangerous goods in cargo, mail or passenger's baggage that originate from or destined for Singapore, or are in transit in Singapore.

Operators are required to submit this report to CAAS in the quickest available means within 24 hours of the occurrence coming to the knowledge of the person making the report.

5.2 All dangerous goods occurrence reports will be administered through the CAAS' reporting system known as the Singapore Aviation Accident / Incident Reporting System (SAIRS). Such reports are to be made using CAAS AW139 form, also known as the SAIRS Form. For the reporting of dangerous goods occurrences, only Part 4 of CAAS AW139 form needs to be completed. The form is available on the CAAS website and can be downloaded at the following link:
https://www.caas.gov.sg/operations-safety/safety-reporting/singapore-aviation-accident-incident-reporting-system

5.3 All written reports using Part 4 of CAAS AW139 form should be made by the air operator or it's agent and submitted via email to caas_dfirs@caas.gov.sg.

5.4 For more information on the reporting of dangerous goods occurrences, air operators may refer to the CAAS Advisory Circular, ***AC 92-3-2 – Reporting of Dangerous Goods Occurrences***, in the following link:
https://www.caas.gov.sg/docs/default-source/docs---srg/ac-92-3-2-(rev-0)---reporting-of-dangerous-goods-occurrences.pdf

GEN 1.6 SUMMARY OF NATIONAL REGULATIONS AND INTERNATIONAL AGREEMENTS/CONVENTIONS

1 LIST OF CIVIL AVIATION LEGISLATION, AIR NAVIGATION REGULATIONS AND ORDERS

The following is a list of legislation (Acts and subsidiary legislation) affecting aviation and air navigation in the Republic of Singapore together with the International Agreements/Conventions ratified or acceded to by the Republic of Singapore. It is essential that anyone engaged in air operations be acquainted with the relevant legal documents.

Copies of the legislation may be obtained as follows:

Electronic versions of the legislation may be freely accessed at
https://sso.agc.gov.sg
https://www.caas.gov.sg/legislation-regulations/legislation

Electronic versions of all Singapore legislation may be accessed via subscription to Lawnet at
https://www.lawnet.sg

Print copies of all the legislation may be purchased (by post) from:

Post:
Toppan Leefung Pte. Ltd.,
No. 1 Kim Seng Promenade, #18-01,
Great World City, East Lobby
Singapore 237994.
Tel: (65) 68269600
Fax: (65) 68203341
URL: www.toppanleefung.com

1.1 CIVIL AVIATION LEGISLATION

No	Legislation	Citation
Civil Aviation Authority of Singapore Act & related legislation		
1	Civil Aviation Authority of Singapore Act 2009	
2	Civil Aviation Authority of Singapore (Airport Development Levy) Order 2018	S437/2018
3	Civil Aviation Authority of Singapore (Aviation Levy) Order 2018	S522/2018
4	Civil Aviation Authority of Singapore (Changi Airport) By-laws 2009	S313/2009
5	Civil Aviation Authority of Singapore (Changi Airport) Notification 2009	S293/2009
6	Civil Aviation Authority of Singapore (Composition of Offences) Regulations 2009	S315/2009
7	Civil Aviation Authority of Singapore (Licensing of Airport Operators) Regulations 2009	S311/2009
8	Civil Aviation Authority of Singapore (Price Control of Aeronautical Charges) Rules 2009	S298/2009
9	Civil Aviation Authority of Singapore (Seletar Airport) By-laws 2009	S314/2009
10	Civil Aviation Authority of Singapore (Seletar Airport) Notification 2009	S294/2009
11	Delegation of Powers	Cap. 41, N1
Air Navigation Act & related legislation		
12	Air Navigation Act 1966	
13	Air Navigation Order	Cap. 6, O2 (1990 Rev Ed.)
14	Air Navigation (101 - Unmanned Aircraft Operations) Regulations 2019	S833/2019
15	Air Navigation (119 – Air Operator Certification) Regulations 2018	S443/2018
16	Air Navigation (121 – Commercial Air Transport by Large Aeroplanes) Regulations 2018	S444/2018
17	Air Navigation (125 – Complex General Aviation) Regulations 2018	S501/2018

No	Legislation	Citation
18	Air Navigation (135 – Commercial Air Transport by Helicopters and Small Aeroplanes) Regulations 2018	S445/2018
19	Air Navigation (137 – Aerial Work) Regulations 2018	S502/2018
20	Air Navigation (139 – Aerodromes) Regulations 2023	S10/2023
21	Air Navigation (91 – General Operating Rules) Regulations 2018	S441/2018
22	Air Navigation (92 – Carriage of Dangerous Goods) Regulations 2022	S998/2022
23	Air Navigation (98 – Special Operations) Regulations 2018	S442/2018
24	Air Navigation (99 - Breath Testing for Alcohol) Regulations 2019	S177/2019
25	Air Navigation (Aviation Security) Order	Cap. 6, O5
26	Air Navigation (Carbon Emissions and Reporting) Regulations 2022	S997/2022
27	Air Navigation (Composition of Offences) Rules 2017	S667/2017
28	Air Navigation (Licensing of Air Services) Regulations	Cap. 6, RG 2
29	Air Navigation (Paya Lebar and Tengah Aerodrome Fees) Order	Cap. 6, O1
30	Air Navigation (Prohibited Flights) Order	Cap. 6, O6
31	Air Navigation (Protected Areas – Army Division Facilities) Order 2024	S341/2024
32	Air Navigation (Protected Areas – Army Headquarters and Formation Facilities) Order 2024	S340/2024
33	Air Navigation (Protected Areas – Catchment and Waterways Facilities) Order 2024	S124/2024
34	Air Navigation (Protected Areas – Military Offshore Facilities) Order 2024	S344/2024
35	Air Navigation (Protected Areas – Military Training-1 Facilities) Order 2024	S345/2024
36	Air Navigation (Protected Areas – Military Training-2 Facilities) Order 2024	S346/2024
37	Air Navigation (Protected Areas – Military Training-3 Facilities) Order 2024	S347/2024
38	Air Navigation (Protected Areas – Non-Military Places) Order 2024	S126/2024
39	Air Navigation (Protected Areas – Public Hospitals) Order 2024	S122/2024
40	Air Navigation (Telecommunication Facilities) Order 2024	S123/2024
41	Air Navigation (Protected Areas – Republic of Singapore Air Force Facilities) Order 2024	S342/2024
42	Air Navigation (Protected Areas – Republic of Singapore Navy Facilities) Order 2024	S343/2024
43	Air Navigation (Protected Areas – Water Supply and Water Reclamation Plants) Order 2024	S125/2024
44	Air Navigation (Protected Areas) Order 2015	S350/2015
45	Air Navigation (Regulated Air Cargo Agents and Known Consignors) Regulations 2017	S166/2017
← 46	Air Navigation (Wreck and Salvage of Aircraft) Regulations	Cap. 6, RG 1
← 47	Designation of Authorised Persons	Cap. 6, N2
← 48	Use of Seletar Aerodrome	Cap. 6, N1
Other Acts & related legislation		
← 49	Carriage by Air Act 1988	2020 Rev Ed.
← 50	Carriage by Air (Parties to Conventions) Order	Cap. 32A, O1
← 51	Carriage by Air (Singapore Currency Equivalents) Order	Cap. 32A, O2
← 52	Carriage by Air (Montreal Convention, 1999) Act 2007	2020 Rev Ed.
← 53	Carriage by Air (Montreal Convention, 1999) (Exclusion from Convention) Order	Cap. 32B, O1
← 54	Tokyo Convention Act 1971	2020 Rev Ed.
← 55	Tokyo Convention (Convention Countries) Notification	Cap. 327, N1
← 56	Tokyo Convention (Protocol Countries) Notification 2019	S893/2019
← 57	Hijacking of Aircraft and Protection of Aircraft and International Airports Act 1978	2020 Rev Ed.
← 58	Infrastructure Protection Act 2017	Act 41 of 2017
← 59	International Interests in Aircraft Equipment Act 2009	2020 Rev Ed.

No	Legislation	Citation
60	Immigration Act 1959	2020 Rev Ed.
61	Immigration (Authorised Places of Entry and Departure, and Rates) Notification 2012	S627/2012
62	Immigration Regulations	Cap. 133, RG 1
63	Arms and Explosives Act 1913	2020 Rev Ed.
64	Arms and Explosives (Aircraft Exemption) Rules	Cap. 13, R3
65	Arms and Explosives (Explosives) Rules	Cap. 13, R2
66	Arms and Explosives (Movement Control) Rules	Cap. 13, R4
67	International Organisations (Immunities and Privileges) Act 1948	2020 Rev Ed.
68	International Organisations (Immunities and Privileges) (International Civil Aviation Organisation) Order	Cap. 145, OR 4
69	Transport Safety Investigations Act 2018	
70	Transport Safety Investigations (Aviation Occurrences) Regulations 2023	S870/2023
71	Transport Safety Investigations (Responsible Persons – Exemption) Order 2023	S874/2023

1.2 OTHER RELEVANT LEGISLATION

No	Legislation	Citation
1	Infectious Diseases Act 1976	2020 Rev Ed.
2	Infectious Diseases (Certificates of Vaccination or Other Prophylaxis) Regulations 2008	S611/2008
3	Infectious Diseases (Quarantine) Regulations	Cap. 137, RG 1
4	Arms and Explosives (Arms) Rules	Cap. 13, R1
5	Inspector of Explosives	Cap. 13, N1
6	Arms Offences Act 1973	

Note: "Cap." means "Chapter ", unless otherwise stated.

1.3 INTERNATIONAL CONVENTIONS AND PROTOCOLS

No	Legislation
1	Convention on International Civil Aviation, done at Chicago on 7 December 1944
2	Protocol Relating to an Amendment to the Convention on International Civil Aviation [Article 83 bis], signed at Montreal on 6 October 1980
3	International Air Services Transit Agreement, signed at Chicago on 7 December 1944
4	Convention on Offences and Certain Other Acts Committed on Board Aircraft, signed at Tokyo on 14 September 1963
5	Protocol to Amend the Convention on Offences and Certain Other Acts Committed on Board Aircraft, done at Montreal on 4 April 2014
6	Convention for the Suppression of Unlawful Seizure of Aircraft, signed at The Hague on 16 December 1970
7	Convention for the Suppression of Unlawful Acts against the Safety of Civil Aviation, signed at Montreal on 23 September 1971
8	Protocol for the Suppression of Unlawful Acts of Violence at Airports Serving International Civil Aviation, Supplementary to the Convention for the Suppression of Unlawful Acts against the Safety of Civil Aviation, done at Montreal on 23 September 1971, signed at Montreal on 24 February 1988
9	Convention on the Marking of Plastic Explosives for the Purpose of Detection, signed at Montreal on 1 March 1991
10	Convention for the Unification of Certain Rules Relating to International Carriage by Air, signed at Warsaw on 12 October 1929
11	Protocol to Amend the Convention for the Unification of Certain Rules Relating to International Carriage by Air signed at Warsaw on 12 October 1929, done at The Hague on 28 September 1955
12	Montreal Protocol No. 4 to Amend the Convention for the Unification of Certain Rules Relating to International Carriage by Air, signed at Warsaw on 12 October 1929, signed at Montreal on 25 September 1975
13	Convention for the Unification of Certain Rules for International Carriage by Air, signed at Montreal on 28 May 1999
14	Convention on International interests in Mobile Equipment, signed at Cape Town on 16 November 2001
15	Protocol to the Convention on International Interests in Mobile Equipment on Matters Specific to Aircraft Equipment, signed at Cape Town on 16 November 2001
16	Protocol for the Amendment Agreement on the Joint Financing of Certain Air Navigation Services in Iceland (1956) as amended in 1982 and 2008
17	Protocol for the Amendment Agreement on the Joint Financing of Certain Air Navigation Services in Greenland (1956) as amended in 1982 and 2008
18	The International COSPAS-SARSAT Programme Agreement, done at Paris on 1 July 1988
19	Protocol Supplementary to the Convention for the Suppression of Unlawful Seizure of Aircraft, done at Beijing on 10 September 2010
20	Convention on the Suppression of Unlawful Acts Relating to International Civil Aviation, done at Beijing on 10 September 2010

2 TAXATION IN THE FIELD OF INTERNATIONAL AIR TRANSPORT

2.1 Petroleum exemptions and income tax

a. Petroleum for aircraft is granted Goods and Services Tax (GST) relief under item 11 of the Schedule to the GST (Imports Relief) Order (2001 Rev Ed.).

b. The matter of income tax on air transport is contained within Section 12(2) of the Income Tax Act (2014 Rev Ed.).

Where a non-resident person carries on either:

i. the business of shipowner or charterer, or

ii. the business of air transport,

and any ship or aircraft owned or chartered by him calls at a port, an aerodrome or an airport in Singapore, his full profits arising from the carriage of passengers, mail, livestock or goods shipped, or loaded into an aircraft, in Singapore shall be deemed to accrue in Singapore.

This subsection shall not apply to passengers, mail, livestock or goods which are brought to Singapore solely for transhipment, or for transfer from one aircraft to another or from an aircraft to a ship or from a ship to an aircraft.

2.2 Capital gains tax, or income on wealth, etc.

There is no capital gains tax, or income on wealth, etc., which are chargeable on the sale or use of international air transport.

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k. **Visual Approach Chart - ICAO**

This chart is produced for aerodromes used by civil aviation where:

* only limited navigation facilities are available; or
* radio communication facilities are not available; or
* no adequate aeronautical charts of the aerodrome and its surroundings at 1:500 000 or greater scale are available; or
* visual approach procedures have been established

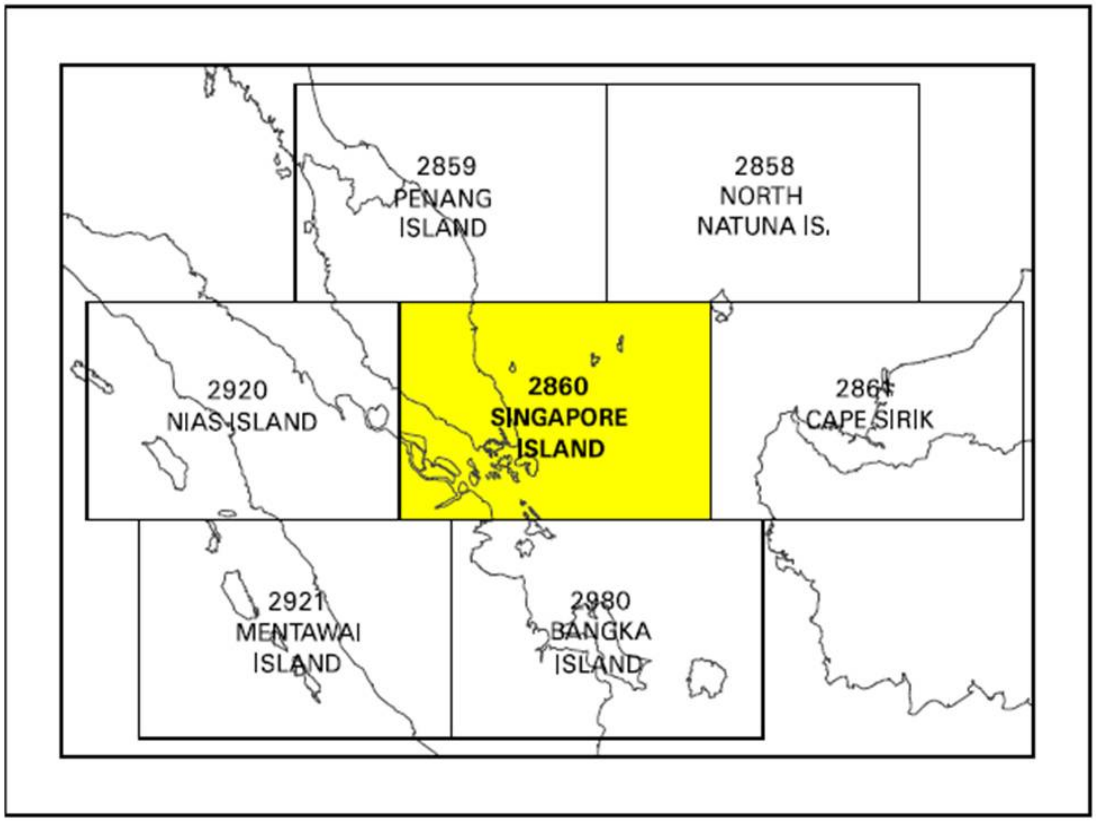
The aeronautical data shown include information on aerodromes obstacles, designated airspace, visual approach information, radio navigation aids and communication facilities, as appropriate.

3.2.5 LIST OF AERONAUTICAL CHARTS AVAILABLE

GEN 3.2.5 LIST OF AERONAUTICAL CHARTS AVAILABLE					
Title of Chart Series	*Scale*	*Name and/or number*		*Price ($)*	*Date*
World Aeronautical Chart ICAO (WAC)	1:1 000 000		WAC 2860	In AIP	21 MAR 24
Enroute Chart ICAO (ENRC)			ERC 6-1	In AIP	16 MAY 24
Instrument Approach Chart ICAO (IAC)		***Singapore Changi***			
	1:400 000	RWY 02L - ICW ILS/DME	AD-2-WSSS-IAC-1	In AIP	16 MAY 24
	1:400 000	RWY 02C - ICE ILS/DME	AD-2-WSSS-IAC-2	In AIP	16 MAY 24
	1:400 000	RWY 02R - ICX ILS/DME	AD-2-WSSS-IAC-3	In AIP	16 MAY 24
	1:400 000	RWY 20R - ICH ILS/DME	AD-2-WSSS-IAC-5	In AIP	16 MAY 24
	1:400 000	RWY 20C - ICC ILS/DME	AD-2-WSSS-IAC-6	In AIP	16 MAY 24
	1:400 000	RWY 20C - VTK DVOR/DME	AD-2-WSSS-IAC-7	In AIP	16 MAY 24
←	1:400 000	RWY 02L - RNP	AD-2-WSSS-IAC-9	In AIP	11 JUL 24
	1:400 000	RWY 02C - RNP	AD-2-WSSS-IAC-10	In AIP	21 MAR 24
	1:400 000	RWY 20R - RNP	AD-2-WSSS-IAC-11	In AIP	21 MAR 24
←	1:400 000	RWY 20C - RNP	AD-2-WSSS-IAC-12	In AIP	11 JUL 24
	1:400 000	RWY 02R - RNP	AD-2-WSSS-IAC-13	In AIP	21 MAR 24
	1:400 000	RWY 20L - RNP	AD-2-WSSS-IAC-14	In AIP	21 MAR 24
		Paya Lebar			
	1:400 000	RWY 20 - PU DVOR/DME	AD-2-WSAP-IAC-1	In AIP	25 JAN 24
	1:400 000	RWY 02 - PU DVOR/DME	AD-2-WSAP-IAC-2	In AIP	16 MAY 24
	1:400 000	RWY 20 - IPS ILS/DME	AD-2-WSAP-IAC-3	In AIP	16 MAY 24
	1:400 000	RWY 02 - IPN ILS/DME	AD-2-WSAP-IAC-4	In AIP	16 MAY 24
	1:400 000	RWY 02 - RNP	AD-2-WSAP-IAC-5	In AIP	21 MAR 24
	1:400 000	RWY 20 - RNP	AD-2-WSAP-IAC-6	In AIP	16 MAY 24
Visual Approach Chart ICAO (VAC)	1:400 000	***Singapore Changi***	AD-2-WSSS-VAC-1	In AIP	21 MAR 24
		Seletar			
	1:100 000	RWY 03	AD-2-WSSL-VAC-1	In AIP	08 SEP 22
	1:100 000	RWY 21	AD-2-WSSL-VAC-2	In AIP	08 SEP 22
	1:100 000	RWY 03	AD-2-WSSL-VAC-3	In AIP	08 SEP 22
	1:100 000	RWY 21	AD-2-WSSL-VAC-4	In AIP	08 SEP 22
Visual Departure Chart		***Seletar***			
	1:100 000	RWY 03	AD-2-WSSL-VDC-1	In AIP	08 SEP 22
	1:100 000	RWY 21	AD-2-WSSL-VDC-2	In AIP	08 SEP 22
← **Aerodrome Chart** ICAO (AC)		***Singapore Changi***	AD-2-WSSS-ADC-2	In AIP	11 JUL 24
		Seletar	AD-2-WSSL-ADC-1	In AIP	16 MAY 24
		Paya Lebar	AD-2-WSAP-ADC-1	In AIP	16 JUL 20
Aerodrome Obstacle Chart ICAO TYPE A (AOC)		***Singapore Changi***			
	1:10 000	RWY 20R/02L	AD-2-WSSS-AOC-1	In AIP	08 SEP 22
←	1:10 000	RWY 20C/02C	AD-2-WSSS-AOC-2	In AIP	11 JUL 24
	1:10 000	RWY 02R/20L	AD-2-WSSS-AOC-4	In AIP	08 SEP 22
		Seletar			
	1:10 000	RWY 03/21	AD-2-WSSL-AOC-1	In AIP	16 JUL 20
		Paya Lebar			
	1:20 000	RWY 20/02	AD-2-WSAP-AOC-1	In AIP	24 MAR 22
Aerodrome Obstacle Chart ICAO TYPE B (AOC)		***Singapore Changi***			
	1:20 000	RWY 02L/20R, 02C/20C and RWY 02R/20L	AD-2-WSSS-AOC-3	In AIP	21 MAR 24
		Seletar			
	1:20 000	RWY 03/21	AD-2-WSSL-AOC-2	In AIP	16 JUL 20

GEN 3.2.5 LIST OF AERONAUTICAL CHARTS AVAILABLE					
Title of Chart Series	*Scale*	*Name and/or number*		*Price ($)*	*Date*
Precision Approach Terrain Chart ICAO (PATC)		***Singapore Changi***			
	1:2 500	RWY 02L	AD-2-WSSS-PATC-1	In AIP	10 OCT 19
←	1:2 500	RWY 20C	AD-2-WSSS-PATC-2	In AIP	11 JUL 24
	1:2 500	RWY 02R	AD-2-WSSS-PATC-3	In AIP	31 DEC 20
	1:2 500	RWY 20L	AD-2-WSSS-PATC-4	In AIP	31 DEC 20
←	1:2 500	RWY 02C	AD-2-WSSS-PATC-5	In AIP	11 JUL 24

3.2.6 INDEX TO THE WORLD AERONAUTICAL CHART (WAC) - ICAO 1:1 000 000



3.2.7 TOPOGRAPHICAL CHARTS

NIL

3.2.8 CORRECTIONS TO CHARTS NOT CONTAINED IN THE AIP

Identification of charts	Location on the chart where the correction has to be made	Precise details of the corrections to be made
NIL	NIL	NIL

GEN 3.3 AIR TRAFFIC SERVICES

3.3.1 RESPONSIBLE SERVICE

1.1 The Director of the Air Traffic Services Division of the Civil Aviation Authority of Singapore (CAAS) acting under the authority of the Director-General of Civil Aviation is the authority responsible for the overall administration of air traffic services within the Singapore FIR.

Post:
Director (Air Traffic Services)
Air Traffic Services Division
Civil Aviation Authority of Singapore
Singapore Changi Airport
P. O. Box 1, Singapore 918141

Tel: (65) 65412669
Fax: (65) 6441 0221
AFS: WSJCZQZX

1.2 The services are provided in accordance with the provisions contained in the following ICAO documents:

Annex 2 – *Rules of the Air*
Annex 11 – *Air Traffic Services*
Doc 4444 – *Procedures for Air Navigation Services - Air Traffic Management (PANS-ATM)*
Doc 8168 – *Procedures for Air Navigation Services - Aircraft Operations (PANS-OPS)*
Doc 7030 – *Regional Supplementary Procedures*

1.3 Differences to these provisions are detailed in subsection GEN 1.7.

3.3.2 AREA OF RESPONSIBILITY

2.1 Air traffic services are provided for the entire territory of Singapore, including its territorial waters as well as the airspace over the high seas within the Singapore FIR.

2.2 In some cases, in accordance with the regional air navigation agreement, air traffic services are provided, under the delegated authority, in the airspace within another bordering FIR. Details of such services are provided in section ENR 2.

3.3.3 TYPES OF SERVICES

3.1 The following types of services are provided:

- Flight Information Service (FIS) and Alerting Service (ALRS);
- Area Control (ACC); and
- Radar

3.2 With the exception of services provided at military air bases, the following types of services are provided at aerodromes:

- Aerodrome Control (TWR);
- Aerodrome Flight Information Service (AFIS); and
- Automatic Terminal Information Service (ATIS) at certain aerodromes

3.3 Air Traffic Control is exercised:

a. on airways covering the main ATS routes;
b. within the Singapore/Johor Airspace Complex and in control zones at controlled aerodromes equipped with approach and/or landing aids.

3.4 Flight information service and alerting service within the Singapore FIR and air traffic control services in control areas are provided by one centre (ACC Singapore). There is no distinction between upper and lower controlled airspace. The axis of each airway is constituted by a line connecting reference points identified normally by radio navigational facilities.

3.5 Air traffic control, flight information and alerting services are provided by:

a. ACC Singapore along the airways including those parts of the airways traversing the Singapore/Johor Airspace Complex;
b. the relevant aerodrome control tower in coordination with ACC Singapore as necessary, for arriving and departing aircraft.

3.6 Radar service is an integral part of the ATS system. A description of radar services and procedures is provided in subsection ENR 1.6. Additional procedures applicable within the Singapore/Johor Airspace Complex are contained in sub-section ENR 1.1.

3.7 The description of the airspace designated for air traffic services purpose is found in several tables, all forming part of sub-section ENR 2.1.

3.8 In general, the air traffic rules and procedures in force and the organisation of air traffic services are in conformity with ICAO Standards, Recommended Practices and Procedures. The regional supplementary procedures and altimeter setting procedures are set out in full. Differences between the national and international rules and procedures are given in sub-section GEN 1.7.

3.9 A few prohibited areas, restricted areas and danger areas are established within the Singapore/Johor Airspace Complex. These areas are shown in sub-section ENR 5.1. Activation of areas subject to intermittent activity is notified well in advance by NOTAM, giving reference to the area only by its identification.

3.10 4D/15 service is provided to the following category of aircraft:

a. Aircraft operating within areas of Singapore FIR where radar services is provided by ATC;
b. ADS-B equipped aircraft operating in ADS-B airspace; and
c. ADS-C equipped aircraft logged on to WSJC on routes providing ADS/CPDLC service.

← 3.3.4 COORDINATION BETWEEN THE OPERATOR AND ATS

← 4.1 Coordination between the operator and air traffic services is effected in accordance with Chapter 2, paragraph 2.17 of ICAO Annex 11 - Air Traffic Services and Chapter 11, paragraphs 11.2.1.1.2, 11.2.1.1.4 and 11.2.1.1.5 ICAO Doc 4444 - Procedures for Air Navigation Services - Air Traffic Management (PANS-ATM).

3.3.5 MINIMUM FLIGHT ALTITUDE

5.1 The minimum flight altitudes on the ATS routes listed in section ENR 3, have been determined to ensure at least 1,000ft (300m) vertical clearance above the highest known obstacle within the lateral limits of the route within Singapore FIR and the adjacent areas of adjoining FIRs.

3.3.6 ATS UNITS ADDRESS LIST

Unit Name	*Postal Address*	*Telephone Nr*	*Telefax Nr*	*Telex Nr*	*AFS Address*
1	2	3	4	5	6
SINGAPORE ACC / APP	Singapore Air Traffic Control Centre (SATCC) 60, Biggin Hill Road Singapore 509950	(65) 65412668 (65) 65412672	(65) 65456252	-	WSJCZQZX
SINGAPORE TOWER	Singapore Changi Control Tower Civil Aviation Authority of Singapore P.O Box 1, Singapore Changi Airport Singapore 918141	(65) 65956057 (65) 65412410 (65) 65412416	(65) 65456224	-	Nil
SELETAR TOWER	Seletar Control Tower Civil Aviation Authority of Singapore Seletar Airport Building 1007, West Camp Road Singapore 797794	(65) 64812893	(65) 64813510	-	WSSLZTZX

3 PROCEDURES APPLICABLE TO OPERATORS AND PILOTS

3.1 FLIGHT PLANNING

3.1.1 The level(s) at which a flight is to be conducted shall be specified in a flight plan;

a. In terms of flight level(s) if the flight is to be conducted at or above the transition level, and

b. In terms of altitude(s) if the flight is to be conducted in the vicinity of an aerodrome and at or below the transition altitude.

Note: 1:
Short flights in the vicinity of an aerodrome may often be conducted only at altitude below the transition altitude.

Note: 2:
Flight levels are specified in a plan by number, and not in terms of feet as is the case with altitudes.

4 TABLES OF CRUISING LEVELS

4.1 SEMI-CIRCULAR SYSTEM OF CRUISING LEVELS WITHIN THE SINGAPORE FIR AND AIRSPACE WHERE ATS IS PROVIDED BY SINGAPORE (SEE ENR 2.1)

4.1.1 The pilot-in-command of an IFR flight at or above 3,000ft within controlled airspace and above FL250 in uncontrolled airspace shall select a level corresponding to the appropriate magnetic track as indicated in para 4.2. The Quadrantal Height Rule as contained in para 4.4 will continue to be used for all flights below FL200 in uncontrolled airspace of the Singapore FIR and airspace within the Jakarta FIR where ATS is provided by Singapore (see ENR 2.1).

4.1.2 FL250 in uncontrolled airspace will be held vacant to serve as a buffer.

4.2 IFR FLIGHTS - CRUISING LEVELS WITHIN THE SINGAPORE FIR AND AIRSPACE WHERE ATS IS PROVIDED BY SINGAPORE (SEE ENR 2.1)

T R A C K			
000° to 179°		**180° to 359°**	
Flight Level	Altitude (feet)	Flight Level	Altitude (feet)
30	3 000	40	4 000
50	5 000	60	6 000
70	7 000	80	8 000
90	9 000	100	10 000
110	11 000	140	14 000
130	13 000	160	16 000
150	15 000	180	18 000
170	17 000	200	20 000
190	19 000	220	22 000
210	21 000	240	24 000
230	23 000	260	26 000
250	25 000	280	28 000
270	27 000	310	31 000
290	29 000	350	35 000
330	33 000	390	39 000
370	37 000	430	43 000
410	41 000	470	47 000
450	45 000	510	51 000
490	49 000	etc.	etc.
etc.	etc.		

4.3 VFR FLIGHTS - CRUISING LEVELS WITHIN THE SINGAPORE FIR AND AIRSPACE WHERE ATS IS PROVIDED BY SINGAPORE (SEE ENR 2.1) IN CONTROLLED AIRSPACE

T R A C K			
000° to 179°		**180° to 359°**	
Flight Level	Altitude (feet)	Flight Level	Altitude (feet)
15	1 500	25	2 500
35	3 500	45	4 500
55	5 500	65	6 500
75	7 500	85	8 500
95	9 500	105	10 500
135	13 500	145	14 500

4.4 QUADRANTAL CRUISING LEVELS FOR FLIGHTS BELOW FL200 OPERATING IN UNCONTROLLED AIRSPACE PART OF AIRSPACE WITHIN THE JAKARTA FIR WHERE ATS IS PROVIDED BY SINGAPORE (SEE ENR 2.1) BETWEEN PANGKALPINANG TMA AND PEKANBARU TMA

4.4.1 The pilot-in-command of a VFR or IFR flight operating at or above 3,000ft and below FL200 between Pangkalpinang TMA and Pekanbaru TMA shall select a level corresponding to the appropriate magnetic track as indicated in the following Quadrantal Cruising Levels:

QUADRANTAL CRUISING LEVELS			
000°to 089°	**090° to 179°**	**180° to 269°**	**270° to 359°**
30	35	40	45
50	55	60	65
70	75	80	85
90	95	100	105
110	-	-	-
130	135	140	145
150	155	160	165
170	175	180	185
← 190	195	-	-

4.4.2 If compliance with VFR cannot be maintained at a quadrantal cruising level, the aircraft shall be flown at another quadrantal level where it is possible to comply with VFR.

4.4.3 The pilot-in-command shall ensure that the cruising level selected for an IFR flight is not below the lowest safe flight level applicable for the route to be flown.
Note: The provision of terrain clearance is not part of ATC service.

4.4.4 Except when taking-off or landing, or with the approval of the appropriate authority, aircraft shall be flown at least 1,000ft above the highest obstacle within 10km of the estimated position of the aircraft in flight.

4.5 TRANSIT PROCEDURES

4.5.1 The procedures to be followed by aircraft when transitting between areas where the Quadrantal System of cruising levels is in use and those where the Semi-Circular System is applicable, are indicated below.

4.5.2 Transition from the Quadrantal System to the Semi-Circular System

TRACK FLOWN	**VFR FLIGHT**	**IFR FLIGHT**
000-089	Climb to next ODD + 500ft level	Maintain ODD level
090-179	Maintain ODD + 500ft level	Descend to next ODD level
180-269	Climb to next EVEN + 500ft level	Maintain EVEN level
270-359	Maintain EVEN + 500ft level	Descend to next EVEN level

ENR 4 RADIO NAVIGATION AIDS/SYSTEMS

ENR 4.1 RADIO NAVIGATION AIDS - ENROUTE

	Name of station (VOR/VAR)	*Id*	*Frequency (CH)*	*Hours of operation*	*Co-ordinates*	*ELEV DME antenna*	*Remarks*
	1	2	3	4	5	6	7
	JOHOR BAHRU DVOR/DME	VJB	112.5 MHz (CH 72X)	H24	013950N 1033939E	43.07 M	Operating Authority: Department of Civil Aviation Malaysia
←	MERSING DVOR/DME	VMR	116.8 MHz (CH 115X)	H24	022318N 1035218E	-	Operating Authority: Department of Civil Aviation Malaysia. 50w
	PAPA UNIFORM DVOR/DME	PU	115.1 MHz (CH 98X)	H24	012524N 1035600E	Antenna HGT: 190 FT AMSL	BRG 020° DIST 9km from THR RWY 02 (WSAP). MAINT Period: Third WED of EV month BTN 0200-0600 Coverage 200NM. EM: F1
←	SINJON DVOR/DME	SJ	113.5 MHz (CH 82X)	H24	011321N 1035115E	Antenna HGT: 190 FT AMSL	BRG 201° DIST 14.5km from THR RWY 02 (WSAP). MAINT Period: Third THU of EV month BTN 0200-0600. Coverage 200NM. EM: F1
	TANJUNGPINANG VOR/DME	TPG	114.8 MHz (CH 95X)	from 00:00 to 14:00	005413N 1043052E	-	Operating Authority: AirNav Indonesia, Indonesia. Coverage 40NM.
	TEKONG DVOR/DME	VTK	116.5 MHz (CH 112X)	H24	012455N 1040120E	Antenna HGT: 150 FT AMSL	BRG 023° DIST 6.4km from THR RWY 20C (WSSS). MAINT Period: Third FRI of EV month BTN 0200-0600. Coverage 200NM. EM:F1

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AD 1.5 STATUS OF CERTIFICATION OF AERODROMES

Aerodrome Name and Location Indicator	Status of Certification	Date of Certificate	Validity of Certification	Remarks
← Singapore Changi WSSS	Certified	1 July 2024	5 years from the date of certification	Code 4F
← Seletar WSSL	Certified	1 July 2024	5 years from the date of certification	Code 3C
Paya Lebar WSAP	NA	NA	NA	Military Aerodrome Operator: Republic of Singapore Air Force Alternate/Emergency Diversionary Aerodrome for Singapore Changi Airport (See AIP section WSAP AD 2.20)

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WSSS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guidelines and visual docking/parking guidance system of aircraft stands.
←	Taxiing guidance signs at all intersections with TWY and RWY at all holding positions. Apron markings at aircraft stands. Nose-in guidance at aircraft stands. For information on Safegate Aircraft Docking Guidance System, Taxiing Guidance System at Singapore Changi Airport, refer to WSSS AD 2.9.
2	RWY and TWY markings and LGT.
	RWY 02L RWY LGT: refer to WSSS AD 2.14 and WSSS AD 2.15. TWY LGT: Blue lights on TWY curved edges. Blue TWY edge markers along selected straight TWY edge sections. Red stop bar at TWY INT controllable on/off. Red stop bar lights at Pattern "A" RWY HLDG PSN entrances to RWY are controllable on/off and are supplemented with elevated RWY guard lights and RWY designation sign at the sides. Internally lighted mandatory or information TWY signboards. "MIL" destination signs on the west of RWY 02L/20R indicate the direction to aircraft movement area for military use only. Alternate green and yellow taxiway centreline lights along taxiways within ILS sensitive zone in the vicinity of the runway and green taxiway centreline lights with selective controls along taxi-routes to/from main RWY and aprons. On the west of RWY 02L/20R, no taxiway centreline lights. MARKING AIDS: THR, touchdown zone, RWY centreline, RWY side stripe, RWY designations, aiming point markings, TWY centreline, taxi holding positions – all taxiways, apron markings.
	RWY 20R RWY LGT: refer to WSSS AD 2.14 and WSSS AD 2.15. TWY LGT: same as for RWY 02L and RWY 02C/20C. MARKING AIDS: Pre-threshold centreline, transverse stripe for displaced THR, THR, touchdown zone, RWY centreline, RWY side stripe, RWY designations, aiming point markings, TWY centreline, taxi holding positions – all taxiways, apron markings.
	RWY 02C/20C RWY LGT: refer to WSSS AD 2.14 and WSSS AD 2.15. TWY LGT: Blue lights on TWY curved edges. Blue TWY edge markers along selected straight TWY edge sections. Red stop bar lights at TWY INT are controllable on/off. Red stop bar lights at Pattern "A" RWY HLDG PSN entrances to RWY are controllable on/off and are supplemented with elevated RWY guard lights and RWY designation sign at the sides. Red stop bar lights at Pattern "B" RWY HLDG PSN before entry into the RWY ILS sensitive area are controllable on/off with Category I/II RWY HLDG PSN sign. Internally lighted mandatory or information TWY signboards. On the east and west of RWY 02C/20C, alternate green and yellow taxiway centreline lights along taxiways within ILS sensitive zone in the vicinity of the runway and green taxiway centreline lights with selective controls along taxi-routes to/from main RWY and aprons. On the east of RWY 02C/20C between Pattern "A" RWY HLDG PSN and Pattern "B" RWY HLDG PSN TWY, alternate green and yellow taxiway centreline lights along taxiways within ILS sensitive zone. Rapid Exit Taxiway Indicator LGT comprises a set of yellow unidirectional LGT positioned in a 3-2-1 sequence at 100m intervals prior to the point of tangency of the rapid exit taxiway centreline. MARKING AIDS: THR, touchdown zone, RWY centreline, RWY side stripe, RWY designations, aiming point markings, TWY centreline, taxi holding positions – all taxiways, apron markings.

	RWY 02R/20L RWY LGT: refer to WSSS AD 2.14 and WSSS AD 2.15. TWY LGT: Blue lights on TWY curved edges. Blue TWY edge markers along selected straight TWY edge sections. Red stop bar lights at TWY INT are controllable on/off. Red stop bar lights at Pattern "A" RWY HLDG PSN entrances to RWY are controllable on/off and are supplemented with elevated RWY guard lights and RWY designation sign at the sides. Red stop bar lights at Pattern "B" RWY HLDG PSN before entry into the RWY ILS sensitive area are controllable on/off with Category I/II RWY HLDG PSN sign. Internally lighted mandatory or information TWY signboards. "MIL" destination signs on the east of RWY 02R/20L indicate the direction to aircraft movement area for military use only. On the west of RWY 02R/20L, alternate green and yellow taxiway centreline lights along taxiways within ILS sensitive zone in the vicinity of the runway and green taxiway centreline lights with selective controls along taxi-routes to/from main RWY and aprons. On the east of RWY 02R/20L, no taxiway centreline lights. MARKING AIDS: THR, touchdown zone, RWY centreline, RWY side stripe, RWY designations, aiming point markings, TWY centreline, taxi holding positions – all taxiways, apron markings.
3	*Stop bars:* Stop bars where appropriate.
4	*Remarks:* Where Red stop bar is not present at the TWY INT, Yellow INTERMEDIATE HLDG PSN LGT will be used at TWY INT and switched on between sunset and sunrise or during periods of poor visibility.

RWY	APCH LGT Type, LEN, Intensity	THR LGT colour WBAR	PAPI (MEHT)	TDZ LGT LEN	RWY Centreline LGT, LEN, spacing, colour, INTST	RWY Edge LGT, LEN, spacing, colour, INTST	RWY End LGT colour	SWY LGT colour
1	2	3	4	5	6	7	8	9
20C	CAT II High Intensity approach lighting (900m) consisting of extended centreline and Red row barrettes, 2 crossbars, 2 approach beacons and sequenced flashing lights.	Green supplemented by green wing-bar and 2 THR ident lights.	PAPI 003° located on left side of RWY, 418m from THR. 2 White LGT and 2 Red LGT (19.8m), 3 White LGT and 1 Red LGT (23.7m), 4 White LGT (26.2m). ACFT with eye-to-wheel height greater than 8m are advised to fly with 2 White and 2 Red LGT visible so as to achieve sufficient wheel clearance.	White 900m (From THR) TDZ. Every 60m from THR.	Inset High Intensity centreline lights as follows: From THR to 900m from RWY end: White, 300m to 900m from RWY end: ALTN Red/White, 300m to RWY end: Red.	Bi-directional White/Amber edge lights as follows: From THR to 600m from RWY end: White, 600m to RWY end: Amber.	Red	Red
02R	CAT II High Intensity Approach Lights (900m) consisting of extended centreline and Red row barrettes, 2 crossbars, 2 approach beacons and sequenced flashing lights.	Green supplemented by green wing-bar and 2 THR ident lights.	PAPI 003° located either side of RWY, 415m from THR. 2 White lights and 2 Red lights (19.7m), 3 White lights and 1 Red light (23.6m), 4 White lights (26.0m). ACFT with eye-to-wheel height greater than 8m are advised to fly with 2 White and 2 Red lights visible so as to achieve sufficient wheel clearance.	White. 900m (From THR) TDZ. Every 60m from THR.	Inset High Intensity centreline lights (longitudinal spacing at 30m apart) as follows: From THR to 900m from RWY end: White, 300m to 900m from RWY end: ALTN Red/ White, 300m to RWY end: Red.	Bi-directional White/Amber edge lights (longitudinal spacing at 60m apart) as follows: From THR to 600m from RWY end: White, 600m to RWY end: Amber.	Red	Elevated Red
20L	CAT II High Intensity Approach Lights (900m) consisting of extended centreline and Red row barrettes, 2 crossbars, 2 approach beacons and sequenced flashing lights.	Green supplemented by green wing-bar and 2 THR ident lights.	PAPI 003° located either side of RWY, 415m from THR. 2 White lights and 2 Red lights (19.7m), 3 White lights and 1 Red light (23.6m), 4 White lights (26.0m). ACFT with eye-to-wheel height greater than 8m are advised to fly with 2 White and 2 Red lights visible so as to achieve sufficient wheel clearance.	White. 900m (From THR) TDZ. Every 60m from THR.	Inset High Intensity centreline lights (longitudinal spacing at 30m apart) as follows: From THR to 900m from RWY end: White, 300m to 900m from RWY end: ALTN Red/ White, 300m to RWY end: Red.	Bi-directional White/Amber edge lights (longitudinal spacing at 60m apart) as follows: From THR to 600m from RWY end: White, 600m to RWY end: Amber.	Red	Elevated Red

WSSS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN/IBN location, characteristics and hours of operation*	ABN: 012209.20N 1035858.43E (western side of RWY 02L/20R) ALTN FLG W G EV 2.3 SEC, Operating hours HN + IMC IBN: 012301.27N 1035959.49E (top of Cargo Agents Building E) FLG G 'SS' EV 7 SEC, Operating hours HN + IMC
2	*Anemometer location and LGT*	RWY 02L/20R: Pressure tube anemometer and wind vane situated 345m west of middle of the runway. Cup anemometers and wind vanes at ends and middle of the runway. Windsocks at ends of the runway. Transmissometers at both ends and in the middle of the runway. RWY 02C/20C: Three ultrasonic wind sensors at the ends and middle of the runway. Windsocks at the ends of the runway. Transmissometers at both ends and in the middle of the runway. RWY 02R/20L: Three ultrasonic wind sensors at the ends and middle of the runway. Windsocks at the ends of the runway. Transmissometers at both ends and in the middle of the runway.
3	*TWY Edge and Centreline Lighting*	RWY 02L/20R and RWY 02C/20C: Blue lights on TWY curved edges and apron TWY edges and Green centreline lights on all TWY. RWY 02R/20L: Blue lights on TWY curved edges and Green centreline lights on all TWY.
4	*Secondary power supply/switch-over time*	Automatic standby generator power supply AVBL for airfield lighting with switchover time of 1 second during Category II low visibility operations.
5	*Remarks*	Vehicles painted yellow or displaying chequered red/white or orange/white flag at highest point of vehicle

WSSS AD 2.16 HELICOPTER LANDING AREA

Refer to ENR 3.4

WSSS AD 2.17 ATS AIRSPACE

1	*Designation and Lateral Limits*	**CHANGI CTR** 013300N 1040149E 013042N 1040654E 012542N 1040448E thence along Kuala Lumpur/Singapore FIR BDRY to 012000N 1041218E 010018N 1035524E 011100N 1035134E 013300N 1040149E
2	*Vertical Limits*	SFC to 3,000ft ALT
3	*Airspace Classification*	C
4	*ATS Unit Callsign* *Language(s)*	Singapore Tower English
5	*Transition Altitude*	11000 FT (3,350m)
6	*Remarks*	A helicopter shall not be operated within the Changi CTR unless prior permission has been obtained from the Director-General of Civil Aviation, CAAS. Email to caas_ats_ansp@caas.gov.sg

AERODROME CHART - ICAO

01 21' 33"N
103 59' 22"E

AERODROME ELEVATION 6.66m

TWR	118.6 / 118.25 / 131.4
GND	124.3 / 121.85 / 121.725 / 127.275
DELIVERY	121.65 / 119.6

RAMP TWR	
GND	122.55 (GMC 4 EAST)
	125.65 (GMC 4 WEST)

SINGAPORE/SINGAPORE CHANGI

PAPI 3° (MEHT) *

Pilot's eye height over the threshold when the following PAPI lights come into view.	RUNWAY					
	02L	20R	02C	20C	02R	20L
2 White lights and 2 red lights	20,0m	20,0m	19,8m	19,8m	19,7m	19,7m
3 White lights and 1 red light	24,0m	22,6m	23,7m	23,7m	23,6m	23,6m
4 White lights	26,4m	25,0m	26,2m	26,2m	26,0m	26,0m

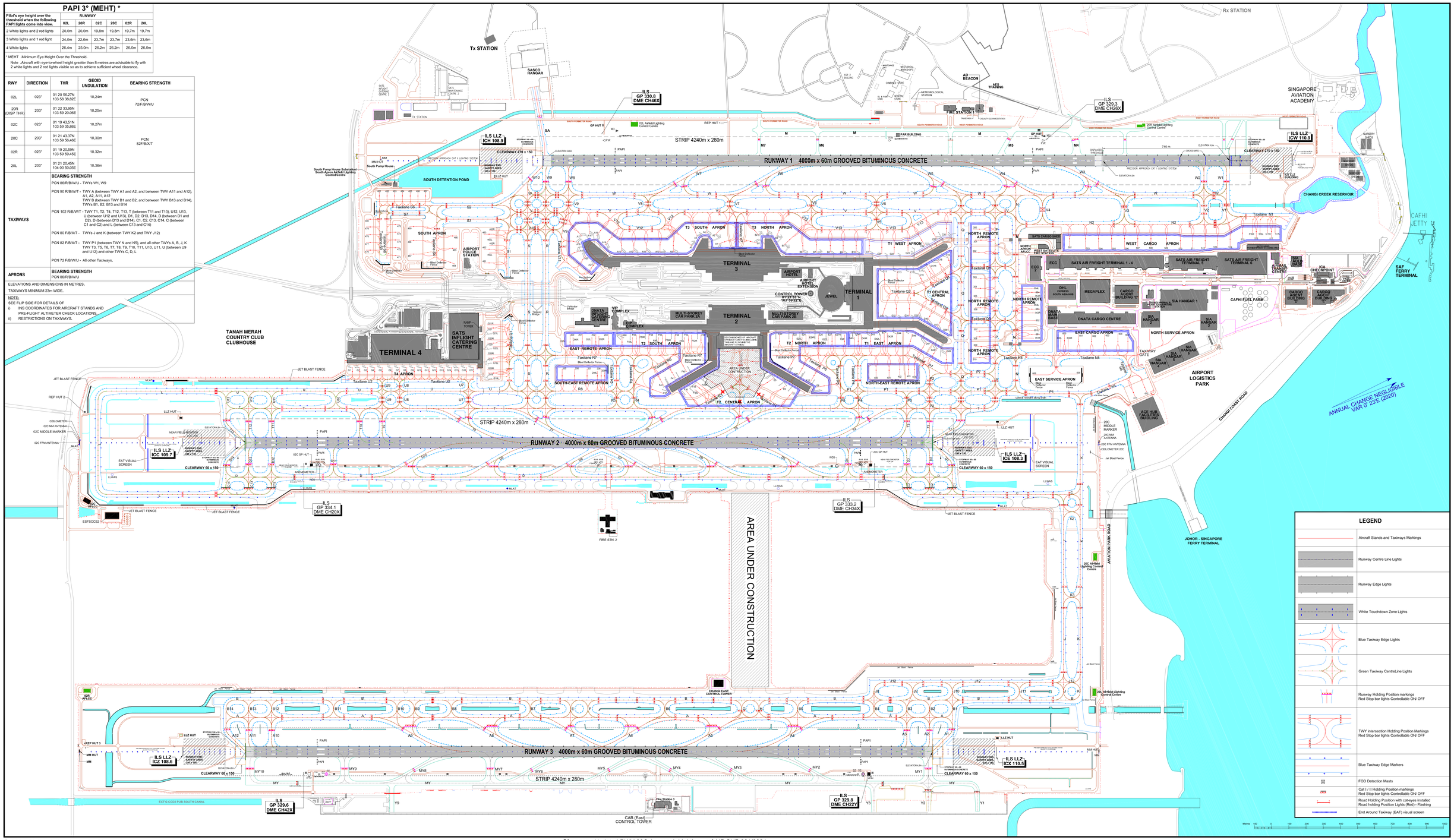
* MEHT ..Minimum Eye Height Over the Threshold.

Note ..Aircraft with eye-to-wheel height greater than 8 metres are advisable to fly with 2 white lights and 2 red lights visible so as to achieve sufficient wheel clearance.

RWY	DIRECTION	THR	GEOID UNDULATION	BEARING STRENGTH
02L	023°	01 20 56.27N 103 58 38.82E	10.24m	PCN 72/F/B/W/U
20R (DISP THR)	203°	01 22 33.95N 103 59 20.06E	10.25m	
02C	023°	01 19 43.51N 103 59 05.86E	10.27m	PCN 82/F/B/X/T
20C	203°	01 21 43.37N 103 59 56.46E	10.30m	
02R	023°	01 19 20.59N 103 59 59.45E	10.32m	
20L	203°	01 21 20.45N 104 00 50.05E	10.36m	

TAXIWAYS	**BEARING STRENGTH** PCN 86/R/B/W/U - TWYs W1, W9 PCN 90 R/B/W/T - TWY A (between TWY A1 and A2, and between TWY A11 and A12), A1, A2, A11, A12 TWY B (between TWY B1 and B2, and between TWY B13 and B14), TWYs B1, B2, B13 and B14 PCN 102 R/B/W/T - TWY T1, T2, T4, T12, T13, T (between T11 and T13), U12, U13, U (between U12 and U13), D1, D2, D13, D14, D (between D1 and D2), D (between D13 and D14), C1, C2, C13, C14, C (between C1 and C2) and L (between C13 and C14) PCN 80 F/B/X/T - TWYs J and K (between TWY K2 and TWY J12) PCN 82 F/B/X/T - TWY P1 (between TWY N and N5), and all other TWYs A, B, J, K TWY T3, T5, T6, T7, T8, T9, T10, T11, U10, U11, U (between U9 and U12) and other TWYs C, D, L PCN 72 F/B/W/U - All other Taxiways.
APRONS	**BEARING STRENGTH** PCN 86/R/B/W/U
ELEVATIONS AND DIMENSIONS IN METRES.	
TAXIWAYS MINIMUM 23m WIDE.	

NOTE:
SEE FLIP SIDE FOR DETAILS OF
i) INS COORDINATES FOR AIRCRAFT STANDS AND PRE-FLIGHT ALTIMETER CHECK LOCATIONS.
ii) RESTRICTIONS ON TAXIWAYS.



LEGEND

- Aircraft Stands and Taxiways Markings
- Runway Centre Line Lights
- Runway Edge Lights
- White Touchdown Zone Lights
- Blue Taxiway Edge Lights
- Green Taxiway CentreLine Lights
- Runway Holding Position markings Red Stop bar lights Controllable ON/ OFF
- TWY intersection Holding Position Markings Red Stop bar lights Controllable ON/ OFF
- Blue Taxiway Edge Markers
- FOD Detection Masts
- Cat I / II Holding Position markings Red Stop bar lights Controllable ON/ OFF
- Road Holding Position with cat-eyes installed Road holding Position Lights (Red) - Flashing
- End Around Taxiway (EAT) visual screen

Metres 100 0 100 200 300 400 500 600 700 800 900 1000

Changes : Updated RWY 20C Approach Lighting - ref AIP SUP 081/2024.
Updated layout north of RWY 2 - jet blast fence, service roads and extended EAT visual screen.

INS COORDINATES FOR AIRCRAFT STANDS AND PRE-FLIGHT ALTIMETER CHECK LOCATIONS

LOCATION	STAND NR	NORTH LAT	EAST LONG	ELEVATION
T3 SOUTH APRON	A1	01 21 21.52	103 59 06.25	4.75m (15.58ft)
	A2	01 21 21.75	103 59 04.00	4.65m (15.26ft)
	A3	01 21 19.86	103 59 02.79	4.66m (15.29ft)
	A4	01 21 17.61	103 59 02.54	4.79m (15.72ft)
	A5	01 21 15.50	103 59 03.62	4.86m (15.94ft)
	A9	01 21 12.56	103 59 03.65	5.02m (16.47ft)
	A10	01 21 10.34	103 59 02.40	5.04m (16.54ft)
	A11	01 21 07.93	103 59 01.41	5.25m (17.22ft)
	A12	01 21 05.76	103 59 00.49	5.38m (17.65ft)
	A13	01 21 03.59	103 58 59.58	5.48m (17.98ft)
	A14	01 21 01.66	103 58 57.59	5.57m (18.27ft)
	A15	01 21 00.77	103 58 55.41	5.46m (17.91ft)
	A16	01 20 59.27	103 58 54.20	5.51m (18.08ft)
	A17	01 20 57.25	103 58 54.06	5.23m (17.16ft)
	A18	01 20 55.97	103 58 55.25	5.37m (17.62ft)
	A19	01 20 55.26	103 58 57.13	5.40m (17.72ft)
	A20	01 20 56.09	103 58 58.83	5.45m (17.88ft)
	A21	01 20 57.10	103 59 00.80	5.49m (18.01ft)
T3 NORTH APRON	B1	01 21 26.86	103 59 08.37	4.82m (15.81ft)
	B2	01 21 28.18	103 59 06.82	4.68m (15.35ft)
	B3	01 21 30.33	103 59 07.30	4.65m (15.26ft)
	B4	01 21 32.03	103 59 08.60	4.75m (15.58ft)
	B5	01 21 32.98	103 59 10.89	4.80m (15.75ft)
	B6	01 21 35.15	103 59 13.16	4.96m (16.27ft)
	B7	01 21 37.65	103 59 13.93	4.97m (16.31ft)
	B8	01 21 39.94	103 59 15.20	5.13m (16.83ft)
	B9	01 21 42.19	103 59 16.16	5.13m (16.83ft)
	B10	01 21 44.47	103 59 17.12	5.15m (16.90ft)
T1 WEST APRON	C1	01 21 46.75	103 59 18.08	5.09m (16.70ft)
	C20	01 21 48.83	103 59 19.23	5.08m (16.67ft)
	C22	01 21 51.00	103 59 20.13	5.15m (16.90ft)
	C23	01 21 53.56	103 59 20.77	5.08m (16.67ft)
	C24	01 21 56.54	103 59 20.97	4.89m (16.04ft)
	C25	01 21 59.12	103 59 20.59	4.99m (16.37ft)
	C26	01 22 01.46	103 59 20.76	5.01m (16.44ft)
T1 CENTRAL APRON	C11	01 21 47.42	103 59 23.82	5.09m (16.70ft)
	C13	01 21 49.63	103 59 24.75	5.03m (16.50ft)
	C15	01 21 51.89	103 59 25.70	5.06m (16.60ft)
	C16	01 21 53.47	103 59 26.62	4.86m (15.94ft)
	C17	01 21 55.50	103 59 26.20	5.01m (16.44ft)
	C17L	01 21 54.75	103 59 26.22	4.96m (16.27ft)
	C17R	01 21 56.01	103 59 25.68	5.12m (16.80ft)
	C18	01 21 57.86	103 59 25.75	4.99m (16.37ft)
	C19	01 21 59.79	103 59 25.63	4.95m (16.24ft)
	D30	01 21 44.54	103 59 30.14	5.08m (16.67ft)
	D32	01 21 46.75	103 59 31.08	5.08m (16.67ft)
	D34	01 21 49.03	103 59 32.04	5.07m (16.63ft)
	D35	01 21 50.87	103 59 32.82	5.02m (16.47ft)
	D36	01 21 51.98	103 59 34.52	5.06m (16.60ft)
	D37	01 21 53.37	103 59 36.28	4.97m (16.31ft)
	D38	01 21 54.58	103 59 37.77	4.99m (16.37ft)
T1 EAST APRON	D40	01 21 38.13	103 59 32.89	5.11m (16.77ft)
	D40L	01 21 37.38	103 59 32.83	5.09m (16.70ft)
	D40R	01 21 38.77	103 59 32.84	5.13m (16.83ft)
	D41	01 21 40.30	103 59 33.81	5.07m (16.63ft)
	D42	01 21 42.77	103 59 34.58	5.15m (16.89ft)
	D42L	01 21 42.00	103 59 34.47	5.12m (16.79ft)
	D42R	01 21 43.45	103 59 34.44	5.21m (17.09ft)
	D44	01 21 44.97	103 59 35.44	5.14m (16.86ft)
	D46	01 21 47.40	103 59 36.72	5.08m (16.67ft)
	D47	01 21 49.19	103 59 38.89	4.93m (16.17ft)
	D48	01 21 50.60	103 59 40.77	4.97m (16.31ft)
	D49	01 21 52.23	103 59 42.35	4.98m (16.34ft)
T2 NORTH APRON	E8	01 21 27.99	103 59 38.45	4.68m (15.35ft)
	E10	01 21 24.15	103 59 32.67	4.71m (15.45ft)
	E11	01 21 25.57	103 59 34.37	4.78m (15.68ft)
	E12	01 21 27.20	103 59 36.42	4.75m (15.58ft)
	E20	01 21 24.36	103 59 27.08	5.04m (16.54ft)
	E22	01 21 26.64	103 59 28.04	5.07m (16.63ft)
	E24	01 21 29.01	103 59 29.06	5.09m (16.70ft)
	E24L	01 21 28.32	103 59 28.77	5.10m (16.73ft)
	E24R	01 21 29.53	103 59 29.28	5.08m (16.67ft)
	E26	01 21 31.19	103 59 29.96	5.08m (16.67ft)
	E27	01 21 33.56	103 59 30.96	5.07m (16.62ft)
	E27L	01 21 32.79	103 59 30.86	5.03m (16.48ft)
	E27R	01 21 34.20	103 59 30.91	5.12m (16.80ft)
	E28	01 21 35.74	103 59 31.89	5.08m (16.67ft)

INS COORDINATES FOR AIRCRAFT STANDS AND PRE-FLIGHT ALTIMETER CHECK LOCATIONS

LOCATION	STAND NR	NORTH LAT	EAST LONG	ELEVATION
T2 CENTRAL APRON	E2	01 21 19.28	103 59 27.30	4.90m (16.08ft)
	E3	01 21 18.44	103 59 29.27	4.82m (15.81ft)
	E4	01 21 18.10	103 59 31.70	4.80m (15.75ft)
	E5	01 21 19.56	103 59 33.72	4.90m (16.08ft)
	E6	01 21 21.22	103 59 35.93	4.84m (15.88ft)
	E7	01 21 22.48	103 59 37.46	4.73m (15.52ft)
	F31	01 21 13.87	103 59 25.30	4.91m(16.11ft)
	F32	01 21 13.03	103 59 27.26	4.85m (15.91ft)
	F33	01 21 11.30	103 59 28.54	4.91m (16.11ft)
	F34	01 21 08.98	103 59 28.96	4.92m (16.14ft)
	F35	01 21 06.60	103 59 29.55	4.91m (16.11ft)
	F35L	01 21 06.06	103 59 30.13	4.74m (15.55ft)
	F35R	01 21 06.96	103 59 29.05	5.04m (16.54ft)
	F36	01 21 04.34	103 59 29.67	4.82m (15.81ft)
T2 SOUTH APRON	F37	01 20 59.83	103 59 27.87	4.75m (15.58ft)
	F40	01 21 05.62	103 59 25.34	4.85m (15.91ft)
	F41	01 21 03.19	103 59 25.58	4.82m (15.81ft)
	F42	01 21 00.61	103 59 25.96	4.72m (15.49ft)
	F50	01 21 10.69	103 59 21.32	5.03m (16.50ft)
	F52	01 21 08.51	103 59 20.40	5.11m (16.77ft)
	F52L	01 21 07.82	103 59 20.11	5.16m (16.93ft)
	F52R	01 21 09.04	103 59 20.62	5.08m (16.67ft)
	F54	01 21 06.14	103 59 19.40	5.22m (17.13ft)
	F56	01 21 03.96	103 59 18.48	5.30m (17.39ft)
	F56L	01 21 03.27	103 59 18.18	5.42m (17.78ft)
	F56R	01 21 04.49	103 59 18.70	5.34m (17.52ft)
	F58	01 21 01.58	103 59 17.47	5.49m (18.01ft)
	F59	01 20 59.41	103 59 16.55	5.64m (18.50ft)
	F59L	01 20 58.72	103 59 16.26	5.67m (18.60ft)
	F59R	01 20 59.93	103 59 16.78	5.60m (18.37ft)
	F60	01 20 56.91	103 59 15.50	5.77m (18.93ft)
EAST REMOTE APRON	200	01 20 47.83	103 59 11.67	6.23m (20.44ft)
	200L	01 20 46.91	103 59 11.92	6.29m (20.64ft)
	200R	01 20 48.35	103 59 11.89	6.18m (20.28ft)
	201	01 20 49.99	103 59 12.62	5.96m (19.55ft)
	202	01 20 52.34	103 59 13.57	5.94m (19.49ft)
	202L	01 20 51.65	103 59 13.28	5.76m (18.90ft)
	202R	01 20 52.87	103 59 13.79	5.73m (18.80ft)
	203	01 20 54.52	103 59 14.47	5.92m (19.42ft)
SOUTH-EAST REMOTE APRON	205	01 20 43.91	103 59 17.06	4.77m (15.65ft)
	206	01 20 46.08	103 59 17.98	4.76m (15.62ft)
	207	01 20 48.21	103 59 19.01	4.74m (15.55ft)
	208	01 20 50.68	103 59 20.05	4.75m (15.58ft)
	208L	01 20 50.01	103 59 19.76	4.74m (15.55ft)
	208R	01 20 51.25	103 59 20.29	4.73m (15.42ft)
NORTH REMOTE APRON	300	01 22 06.95	103 59 22.67	4.53m (14.86ft)
	301	01 22 06.41	103 59 24.69	4.93m (16.17ft)
	302	01 22 05.21	103 59 26.75	4.97m (16.31ft)
	303	01 22 03.55	103 59 31.40	5.32m (17.45ft)
	304	01 22 02.84	103 59 33.06	5.35m (17.55ft)
	305	01 22 02.14	103 59 34.71	5.30m (17.39ft)
	306	01 22 01.41	103 59 36.42	5.16m (16.93ft)
	307	01 21 59.39	103 59 40.36	5.16m (16.93ft)
	308	01 21 58.96	103 59 41.35	5.10m (16.73ft)
	309	01 21 58.52	103 59 43.17	5.06m (16.60ft)
	310	01 21 57.42	103 59 44.96	4.74m (15.55ft)
	951	01 22 09.35	103 59 45.23	5.15m (16.90ft)
	951L	01 22 08.91	103 59 44.27	5.00m (16.40ft)
	951R	01 22 08.35	103 59 45.58	5.00m (16.40ft)
	952	01 22 09.94	103 59 42.65	4.89m (16.04ft)
	953	01 22 11.22	103 59 40.85	4.98m (16.34ft)
	953L	01 22 10.78	103 59 39.89	4.83m (15.85ft)
	953R	01 22 10.41	103 59 41.28	4.87m (15.98ft)
	954	01 22 12.46	103 59 37.95	4.84m (15.88ft)
	954L	01 22 12.02	103 59 36.99	4.70m (15.42ft)
	954R	01 22 11.65	103 59 38.38	4.74m (15.55ft)
NORTH-EAST REMOTE APRON	400	01 21 38.71	103 59 40.14	4.31m (14.14ft)
	401	01 21 40.98	103 59 41.10	4.31m (14.14ft)
	402	01 21 42.85	103 59 41.89	4.30m (14.11ft)
	403	01 21 44.37	103 59 42.53	4.29m (14.07ft)
	404	01 21 45.45	103 59 42.98	4.20m (13.78ft)

INS COORDINATES FOR AIRCRAFT STANDS AND PRE-FLIGHT ALTIMETER CHECK LOCATIONS

LOCATION	STAND NR	NORTH LAT	EAST LONG	ELEVATION
WEST CARGO APRON	502	01 22 22.23	103 59 31.62	4.35m (14.27ft)
	503	01 22 24.98	103 59 32.78	4.29m (14.07ft)
	504	01 22 27.26	103 59 33.74	4.29m (14.07ft)
	505	01 22 29.54	103 59 34.70	4.32m (14.17ft)
	506	01 22 31.81	103 59 35.66	4.38m (14.37ft)
	507	01 22 34.11	103 59 36.64	4.36m (14.30ft)
	508	01 22 36.41	103 59 37.61	4.29m (14.07ft)
	509	01 22 39.12	103 59 38.76	4.09m (13.42ft)
	510	01 22 41.37	103 59 40.18	4.19m (13.75ft)
	511	01 22 43.54	103 59 41.09	4.22m (13.85ft)
	512	01 22 45.71	103 59 42.01	4.24m (13.91ft)
	513	01 22 47.89	103 59 42.92	4.26m (13.98ft)
	514	01 22 50.19	103 59 43.54	4.36m (14.30ft)
	515	01 22 52.90	103 59 43.20	4.09m (13.43ft)
	516	01 22 55.39	103 59 43.97	4.04m (13.26ft)
	516L	01 22 56.24	103 59 43.80	3.96m (12.98ft)
	516R	01 22 54.93	103 59 43.25	3.95m (12.97ft)
	517	01 22 58.02	103 59 45.08	4.05m (13.27ft)
	517L	01 22 58.83	103 59 44.99	3.98m (13.05ft)
	517R	01 22 57.55	103 59 44.35	3.96m (12.98ft)
EAST CARGO APRON	600	01 22 14.12	103 59 48.10	4.25m (13.94ft)
	600L	01 22 13.28	103 59 48.27	4.22m (13.83ft)
	600R	01 22 14.58	103 59 48.81	4.15m (13.60ft)
	601	01 22 16.52	103 59 49.27	4.27m (14.01ft)
	602	01 22 18.80	103 59 50.23	4.30m (14.11ft)
	603	01 22 21.15	103 59 51.02	4.29m (14.07ft)
	604	01 22 23.46	103 59 51.99	4.31m (14.14ft)
	605	01 22 25.19	103 59 52.75	4.27m (14.01ft)
EAST SERVICE APRON	606	01 22 10.00	103 59 52.53	2.43m (7.97ft)
	609	01 22 12.95	103 59 55.04	2.91m (9.55ft)
ACEHUB	611	01 22 22.14	104 00 02.87	4.01m (13.16ft)
	612	01 22 24.50	104 00 02.87	3.91m (12.83ft)
SOUTH APRON	461	01 20 39.67	103 58 52.75	5.28m (17.32ft)
	462	01 20 40.69	103 58 50.37	5.75m (18.86ft)
	462L	01 20 40.41	103 58 51.02	5.48m (17.98ft)
	462R	01 20 40.97	103 58 49.71	5.71m (18.73ft)
	463	01 20 41.80	103 58 47.76	5.97m (19.59ft)
	463L	01 20 41.52	103 58 48.42	5.82m (19.10ft)
	463R	01 20 42.06	103 58 47.17	5.82m (19.10ft)
	464	01 20 32.33	103 58 49.39	4.98m (16.34ft)
	465	01 20 33.61	103 58 47.20	5.01m (16.44ft)
	466	01 20 34.53	103 58 45.05	5.01m (16.44ft)
	467	01 20 27.32	103 58 45.73	5.01m (16.44ft)
	468	01 20 28.34	103 58 43.34	5.00m (16.41ft)
	469	01 20 29.36	103 58 40.96	5.02m (16.47ft)
	471	01 20 23.76	103 58 44.49	5.16m (16.93ft)
	472	01 20 24.55	103 58 43.24	5.16m (16.93ft)
	473	01 20 25.12	103 58 41.90	5.16m (16.93ft)
	474	01 20 25.70	103 58 40.56	5.16m (16.93ft)
	475	01 20 26.27	103 58 39.22	5.16m (16.93ft)
	476	01 20 19.16	103 58 41.47	5.16m (16.93ft)
	477	01 20 19.74	103 58 40.13	5.16m (16.93ft)
	478	01 20 20.31	103 58 38.79	5.16m (16.93ft)
	479	01 20 20.88	103 58 37.45	5.16m (16.93ft)
	480	01 20 21.45	103 58 36.11	5.16m (16.93ft)
	481	01 20 25.27	103 58 32.56	5.22m (17.13ft)
	482	01 20 26.62	103 58 33.13	5.22m (17.13ft)
	483	01 20 27.96	103 58 33.70	5.22m (17.13ft)
	484	01 20 29.31	103 58 34.27	5.22m (17.13ft)
	485	01 20 30.66	103 58 34.84	5.22m (17.13ft)
	486	01 20 32.01	103 58 35.41	5.22m (17.13ft)
	487	01 20 33.36	103 58 35.98	5.22m (17.13ft)
T4 APRON	G1	01 20 07.58	103 59 00.97	3.95m (12.96ft)
	G2	01 20 08.88	103 59 01.52	3.95m (12.96ft)
	G3	01 20 10.18	103 59 02.07	3.95m (12.96ft)
	G4	01 20 11.48	103 59 02.07	3.94m (12.93ft)
	G5	01 20 12.77	103 59 03.17	3.94m (12.93ft)
	G6	01 20 14.49	103 59 03.89	3.93m (12.89ft)
	G7	01 20 15.70	103 59 04.57	3.89m (12.76ft)
	G8	01 20 17.01	103 59 05.12	3.85m (12.63ft)
	G9	01 20 18.31	103 59 05.67	3.85m (12.63ft)
	G10	01 20 19.60	103 59 06.22	3.86m (12.66ft)
	G11	01 20 20.90	103 59 06.77	3.84m (12.60ft)
	G12	01 20 22.20	103 59 07.31	3.83m (12.57ft)
	G13	01 20 23.50	103 59 07.86	3.82m (12.53ft)
	G14	01 20 24.79	103 59 08.41	3.83m (12.57ft)
	G15	01 20 26.09	103 59 08.96	3.88m (12.73ft)
	G16	01 20 27.39	103 59 09.50	4.05m (13.29ft)
	G17	01 20 28.69	103 59 10.05	4.00m (13.12ft)
	G18	01 20 31.53	103 59 11.86	4.36m (14.30ft)
	G18L	01 20 32.05	103 59 12.85	4.34m (14.24ft)
	G18R	01 20 31.65	103 59 11.26	4.43m (14.53ft)
	G19	01 20 32.64	103 59 09.25	4.56m (14.96ft)
	G19L	01 20 33.17	103 59 11.26	4.47m (14.67ft)
	G19R	01 20 32.77	103 59 08.66	4.56m (14.96ft)
	G20	01 20 33.75	103 59 06.65	4.52m (14.83ft)
	G20L	01 20 34.13	103 59 07.58	4.44m (14.57ft)
	G20R	01 20 33.99	103 59 06.10	4.52m (14.83ft)
	G21	01 20 34.87	103 59 04.04	4.51m (14.80ft)
	G21L	01 20 35.24	103 59 04.98	4.52m (14.83ft)
	G21R	01 20 35.10	103 59 03.49	4.55m (14.93ft)

RESTRICTIONS ON TAXIWAYS

1) Pilots are advised to apply minimum thrust when
   i) turning into TWY P2, P4, P5 and Taxilane P6 while taxiing either northwards or southwards on Taxilane P7, and
   ii) thereafter when taxiing along TWY P2 up to and including the TWY P1/P2 junction.
   This is in view of apron activities at aircraft stands D40, D41, D47, D48, D49, E22, E24, E27 and E28.

2) TWY SA can only be used by aircraft with maximum wingspan 65m. TWY SA is a one-way live TWY for aircraft taxiing into SASCO hangar via RWY 02L. Only tow-out operation is allowed from SASCO hangar into TWY SA and RWY 02L.

3) Taxiway Q (between TWY V and TWY P7) can only be used by aircraft with maximum wingspan 65m.

4) Taxiway centreline along TWY T between TWY R1 and R3 offset eastward by 2.5m away from aircraft stands E7 and F36

5) Pilots are advised to apply minimum thrust when turning into Taxiway V from Taxilane V7.

6) Taxilane V11 (behind aircraft stands A18 to A21) can only be used by aircraft with maximum wingspan 61m.

7) Taxilane Q1 (behind aircraft stands C16 to C19 and between TWY P and TWY Q),
   Taxilane Q2 and Taxilane Q3 (behind aircraft stands D35 to D38 and between TWY P and TWY Q)
   can only be used by aircraft with maximum wingspan 65m.

8) Taxilane P7 (behind aircraft stands E20 to E22) and Taxilane R7 (behind aircraft stands F50 to F54) can only be used by aircraft with maximum wingspan 65m (towing and pushback exempted).

9) Taxilane U2 can only be used by aircraft with maximum wingspan 36m.

10) Taxiway U7 (between Taxilane U2 and Taxiway U), Taxiway U8 (between Taxilane U2 and Taxiway U) and Taxiway U9 (between Taxilane U2 and Taxiway U) can only be used by aircraft with maximum wingspan 36m.

11) Pilots are advised to exercise caution when taxiing near Taxilane U2, Taxiway U, U7, U8 and U9.

12) Pilots are advised to apply speed limit of 20 knots when taxiing along TWY R and TWY S.

13) Pilots turning aircraft into aircraft stand A2 or aircraft stand B2 are advised to wait for any aircraft holding at Taxilane V7, at the inner cul-de-sac portion of the terminal building to vacate this portion before turning into aircraft stand A2 or aircraft stand B2.

14) TWY M, M4, M5, M6 and M7, located western side of RWY 02L/20R, are solely for use by Republic of Singapore Air Force (RSAF) aircraft.

15) TWY MY, MY1, MY2, MY3, MY4, MY5, MY6, MY7, MY8, MY9 and MY10, located eastern side of RWY 02R/20L, are solely for use by Republic of Singapore Air Force (RSAF) aircraft.

16) Taxiway S2, S3 and Taxilane S4 can only be used by aircraft with maximum wingspan 65m.

17) Taxilane S6, S8, S9 and Taxiway S7 can only be used by aircraft with maximum wingspan 36m.

18) Pilots are advised to apply minimum thrust when taxiing on Taxilane N4 turning into Taxilane N5 (and vice versa), due to potential jet blast issues affecting Bays 603, 604, 611 and 612. Aircraft shall not stop on TXL N5 between aircraft stands 604 and 611.

NOTE:
Pilots to follow stand lead-in line and taxi through white hatched apron markings of the following aircraft stands:
A5, A9, B5, B6, C17, D40, D42, E24, E27, F35, F52, F56, F59, G18, G19, G20, G21, 200, 202, 208, 462, 463, 600, 516, 517, 951, 953, 954.

RADIO ALTIMETER OPERATIONS AREA

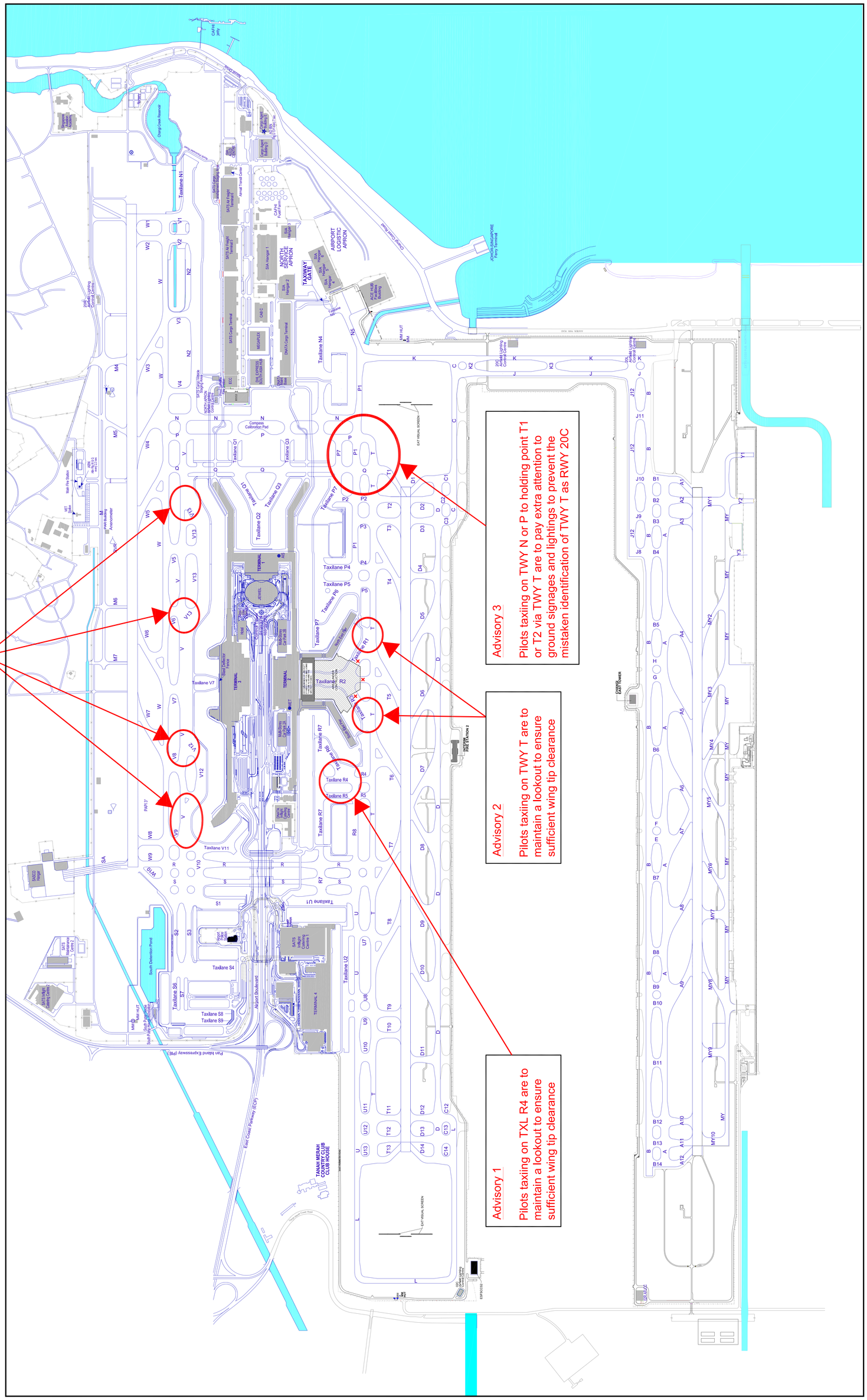
A radio altimeter operating area is established in the pre-threshold area of Runway 02L/20R, Runway 02C/20C and Runway 02R/20L.
The size of the radio altimeter operating area is 300m length and 120m width.

AIRCRAFT STANDS WITH SAFEGATE AIRCRAFT DOCKING GUIDANCE SYSTEM.

TOTAL AIRCRAFT PARKING POSITIONS : 241

Changes : NIL.

AERODROME ADVISORY CHART



Changes : Updated layout north of RWY 2 - service roads, extended EAT visual screen and MM facility.

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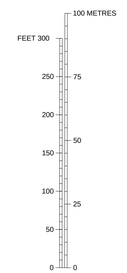
DIMENSIONS AND ELEVATIONS IN METRES

AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATING LIMITATIONS)

SINGAPORE/Singapore Changi

MAGNETIC VARIATION 23E (2020)

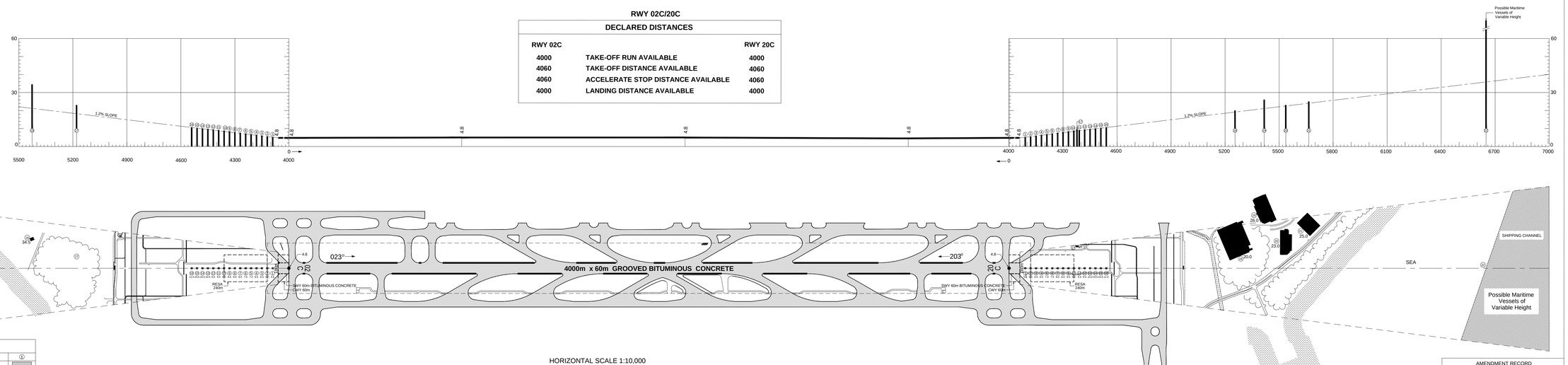


VERTICAL SCALE 1:1000

RWY 02C/20C

DECLARED DISTANCES

RWY 02C		RWY 20C
4000	TAKE-OFF RUN AVAILABLE	4000
4060	TAKE-OFF DISTANCE AVAILABLE	4060
4060	ACCELERATE STOP DISTANCE AVAILABLE	4060
4000	LANDING DISTANCE AVAILABLE	4000



HORIZONTAL SCALE 1:10,000

METRES 400 200 0 500 1000 1500 2000 METRES

FEET 1000 500 0 1000 2000 3000 4000 5000 6000 FEET

LEGEND

IDENTIFICATION NUMBER	①
DRAIN	
FENCE	
PRECISION APPROACH LIGHT	
ROAD	
BUILDING	
EAT VISUAL SCREEN	

ORDER OF ACCURACY

HORIZONTAL : ±1m
VERTICAL : ±1m

AMENDMENT RECORD		
NO.	DATE	ENTERED BY

CHANGES: Revised features below RWY 02C take-off flight path

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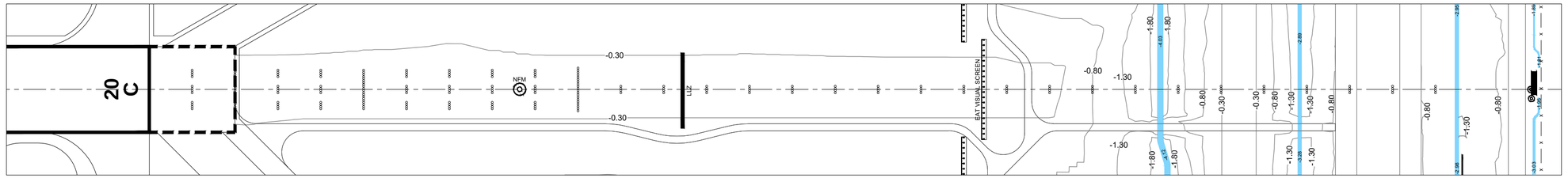
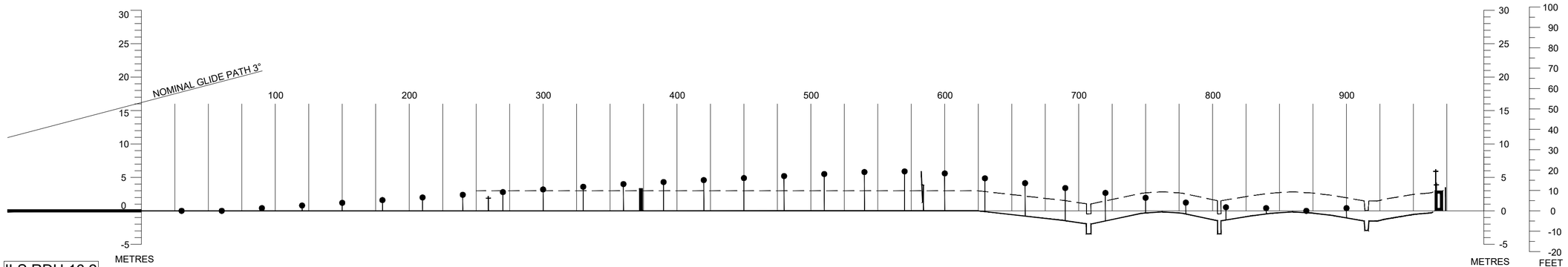
DISTANCES AND HEIGHTS IN METRES

PRECISION APPROACH TERRAIN CHART - ICAO

SINGAPORE/Singapore Changi
RWY 20C





ILS RDH 16.2

SCALE 1: 2500

0 50 100 200 300 METRES

0 50 100 200 300 400 500 600 700 800 900 1000 FEET

HORIZONTAL SCALE 1 : 2500

VERTICAL SCALE 1 : 500

CONTOUR AND HEIGHTS ARE RELATED TO ELEVATION OF RWY THR

LEGEND	
LOCALISER	LLZ
ANTENNA	
DRAIN	
FENCE	
CONTOUR	-1.30
PRECISION APPROACH LIGHT	
ROAD	
EAT VISUAL SCREEN	
BUILDING	
CENTRE-LINE PROFILE	
DEVIATION AT LEAST +/- 3M FROM CENTRE-LINE PROFILE	
JET BLAST FENCE	

AMENDMENT RECORD		
NO.	DATE	ENTERED BY

CHANGES: Revised plan, profile and legend

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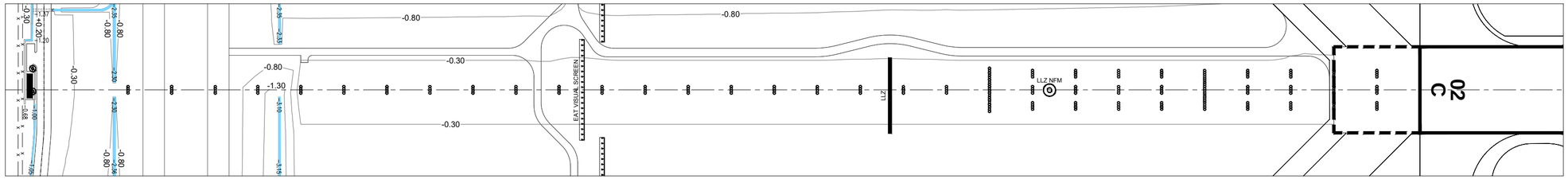
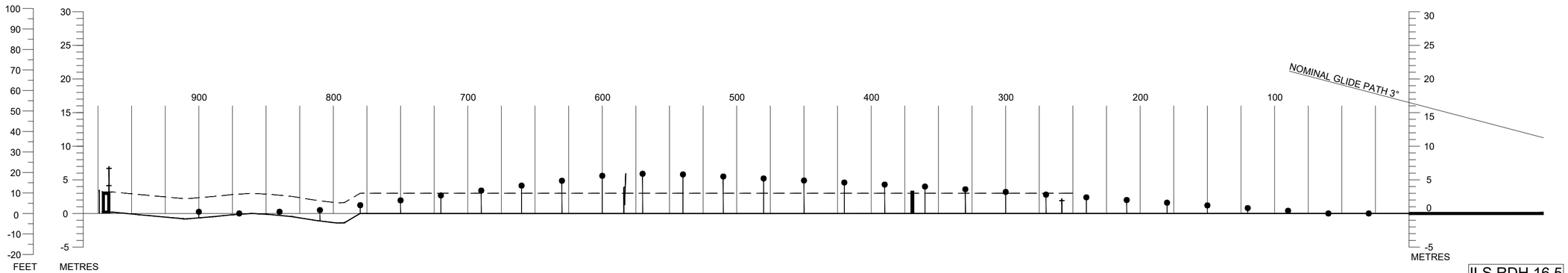
DISTANCES AND HEIGHTS IN METRES

PRECISION APPROACH TERRAIN CHART - ICAO

SINGAPORE/Singapore Changi
RWY 02C





ILS RDH 16.5

SCALE 1: 2500

0 50 100 200 300 METRES

0 50 100 200 300 400 500 600 700 800 900 1000 FEET

HORIZONTAL SCALE 1 : 2500

VERTICAL SCALE 1 : 500

CONTOUR AND HEIGHTS ARE RELATED TO ELEVATION OF RWY THR

LEGEND	
LOCALISER	LLZ
ANTENNA	
DRAIN	
FENCE	
CONTOUR	1.30
PRECISION APPROACH LIGHT	
ROAD	
EAT VISUAL SCREEN	
BUILDING	
CENTRE-LINE PROFILE	
DEVIATION AT LEAST +/- 3M FROM CENTRE-LINE PROFILE	

AMENDMENT RECORD		
NO.	DATE	ENTERED BY

CHANGES: Revised legend

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

TWR 118.6 / 118.25
APP 120.3
124.05
ACC 133.25

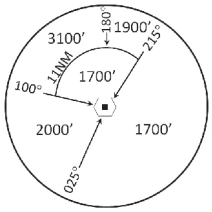
TRANSITION ALTITUDE
11 000ft

D-ATIS AP ID-WSSS
128.6

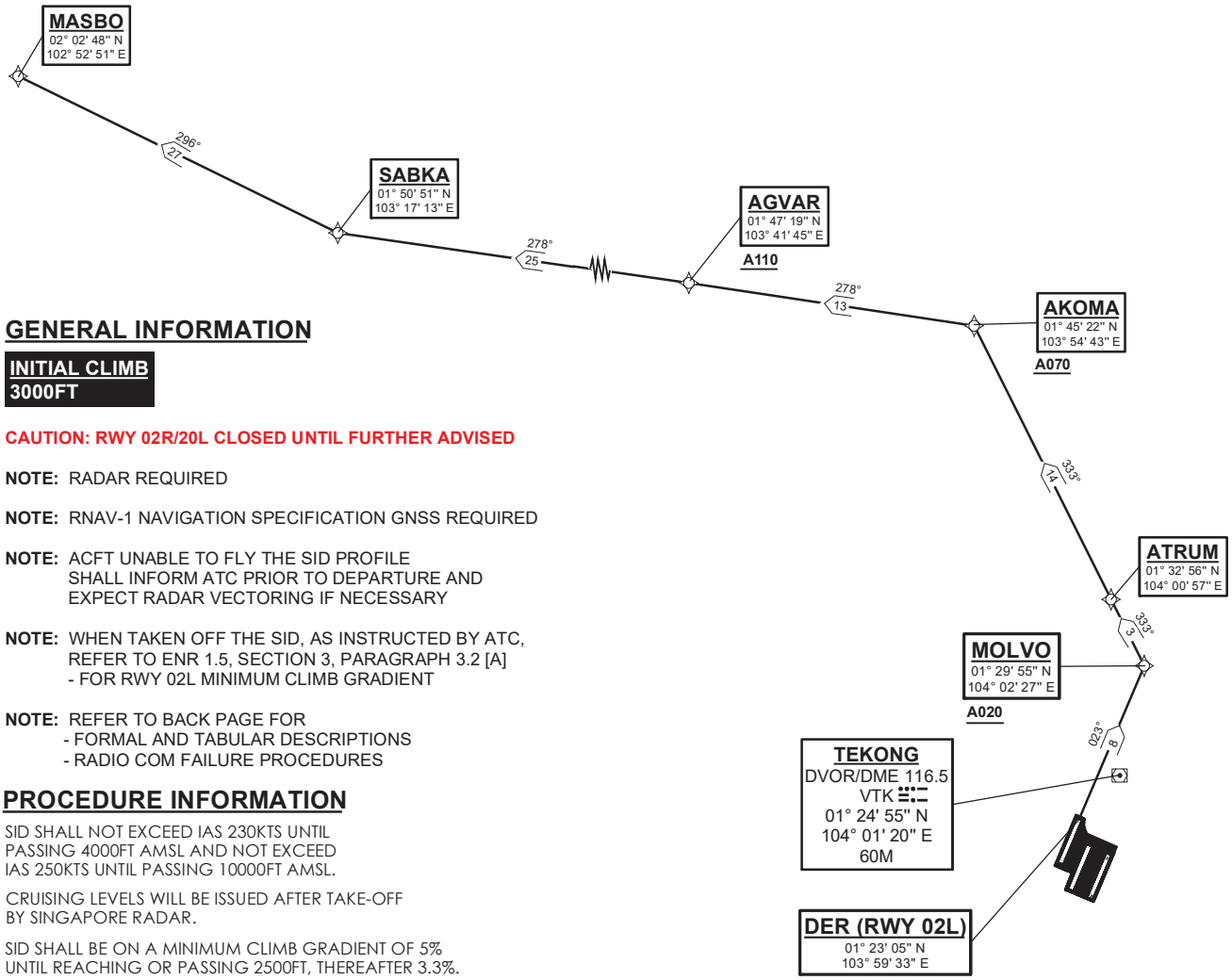
SINGAPORE/Singapore Changi
RWY 02L
MASBO DEPARTURES
MASBO 3E

ELEV, ALT IN FEET
BEARINGS, TRACKS AND RADIALS ARE MAGNETIC
VAR 0°23'E (2022)

DISTANCES IN NM



MSA 25 NM
from TEKONG DVOR



GENERAL INFORMATION

INITIAL CLIMB
3000FT

CAUTION: RWY 02R/20L CLOSED 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 3.2 [A] - FOR RWY 02L 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 5% UNTIL REACHING OR PASSING 2500FT, 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

NOT TO SCALE

CHANGES : Amended Formal and Abbreviated Descriptions in Flip Page

MASBO 3E (SID) RNAV GNSS RWY 02L - DESCRIPTIONS

Formal & Abbreviated Descriptions

Formal Description	Abbreviated Description	Path Terminator	Fly-Over required
To MOLVO on course 023° at or above 2000ft, turn left.	MOLVO [M023; A020+; L] -	CF	N
To ATRUM.	ATRUM -	TF	N
To AKOMA at or above 7000ft, turn left.	AKOMA [A070+; L] -	TF	N
To AGVAR at or above 11000ft.	AGVAR [A110+] -	TF	N
To SABKA, turn right.	SABKA [R] -	TF	N
To MASBO.	MASBO	TF	N

Tabular Descriptions

Path Term	Waypoint Name	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude	Speed Limit	Navigation Spec
CF	MOLVO	-	023(023.4)	8.0	L	A020+	-	RNAV1
TF	ATRUM	-	333(333.4)	3.0	-	-	-	RNAV1
TF	AKOMA	-	333(333.4)	14.0	L	A070+	-	RNAV1
TF	AGVAR	-	278(278.4)	13.0	-	A110+	-	RNAV1
TF	SABKA	-	278(278.4)	25.0	R	-	-	RNAV1
TF	MASBO	-	296(296.4)	27.0	-	-	-	RNAV1

Radio Communications Failure Procedure

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

INSTRUMENT APPROACH CHART - ICAO

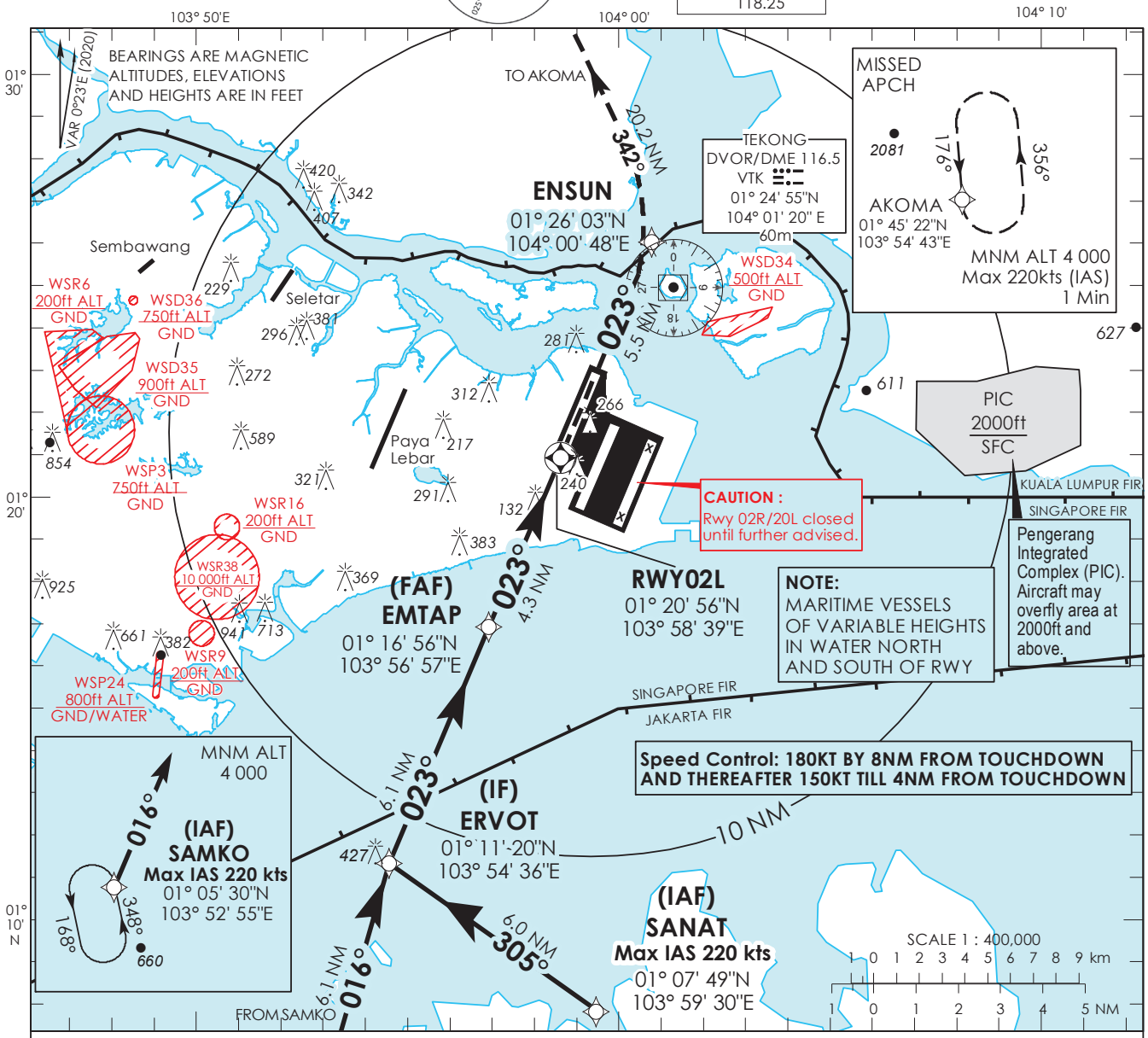
AERODROME ELEV 22ft
HEIGHT RELATED TO
THR RWY 02L - ELEV 22ft

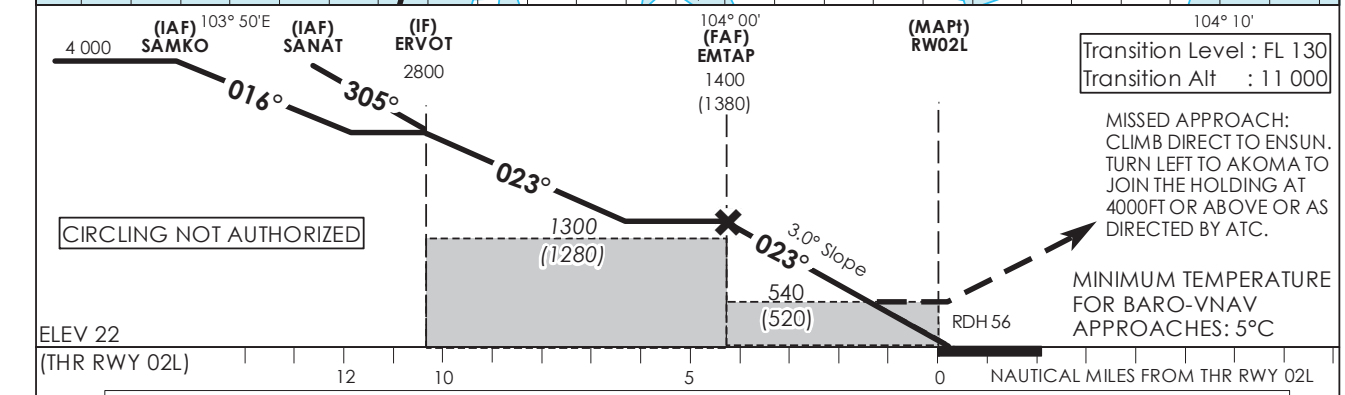
MSA 25 NM from TEKONG DVOR

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

SINGAPORE/ SINGAPORE CHANGI

RNP RWY 02L





		OCA (OCH)			
Category of Aircraft		A	B	C	D
LNAV/VNAV	2.5%	**450 (430)**			
LNAV	2.5%	**540 (520)**			

Fix	SAMKO	SANAT	ERVOT	EMTAP	RW02L	ENSUN	AKOMA
Altitude (Height)	**4000 (3978)**	**4000 (3978)**	**2800 (2778)**	**1400 (1378)**	**540 (518)**	**880 (858)**	**4000 (3978)**
Speed	knots	80	100	120	140	160	180
FAF - MAPt 4.3nm	min : s	**3 : 14**	**2 : 35**	**2 : 09**	**1 : 51**	**1 : 37**	**1 : 26**
Rate of descent/GS	ft/min	**424**	**530**	**637**	**743**	**849**	**955**

CHANGES : Removed AKOMA speed limit in flip-page

SINGAPORE CHANGI RNP-APCH RWY 02L – Approach from SAMKO

Path Terminator	Waypoint	Fly-Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA/ TCH(FT)	Navigation Specification
IF	SAMKO	-	-	-0.4	-	-	A040+	220	-	RNP APCH
TF	ERVOT	-	016 (016.4)	-0.4	6.1	R	A028+	-	-	RNP APCH
TF	EMTAP	-	023 (023.4)	-0.4	6.1	-	A014+	-	-	RNP APCH
TF	RW02L	Y	023 (023.4)	-0.4	4.3	-	-	-	-3.0° / 50	RNP APCH
DF	ENSUN	-	-	-0.4	-	L	-	-	-	RNP APCH
TF	AKOMA	-	342 (342.4)	-0.4	20.2	-	A040+	-	-	RNP APCH

SINGAPORE CHANGI RNP-APCH RWY 02L – Approach from SANAT

Path Terminator	Waypoint	Fly-Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA/ TCH(FT)	Navigation Specification
IF	SANAT	-	-	-0.4	-	-	A040+	220	-	RNP APCH
TF	ERVOT	-	305 (305.4)	-0.4	6.0	R	A028+	-	-	RNP APCH
TF	EMTAP	-	023 (023.4)	-0.4	6.1	-	A014+	-	-	RNP APCH
TF	RW02L	Y	023 (023.4)	-0.4	4.3	-	-	-	-3.0° / 50	RNP APCH
DF	ENSUN	-	-	-0.4	-	L	-	-	-	RNP APCH
TF	AKOMA	-	342 (342.4)	-0.4	20.2	-	A040+	-	-	RNP APCH

Waypoint Coordinates

Name	Latitude	Longitude
SAMKO (IAF)	01° 05’ 30” N	103° 52’ 55” E
SANAT (IAF)	01° 07’ 49” N	103° 59’ 30” E
ERVOT (IF)	01° 11’ 20” N	103° 54’ 36” E
EMTAP (FAF)	01° 16’ 56” N	103° 56’ 57” E
RW02L	01° 20’ 56” N	103° 58’ 39” E
ENSUN	01° 26’ 03” N	104° 00’ 48” E
AKOMA	01° 45’ 22” N	103° 54’ 43” E

INSTRUMENT APPROACH CHART - ICAO

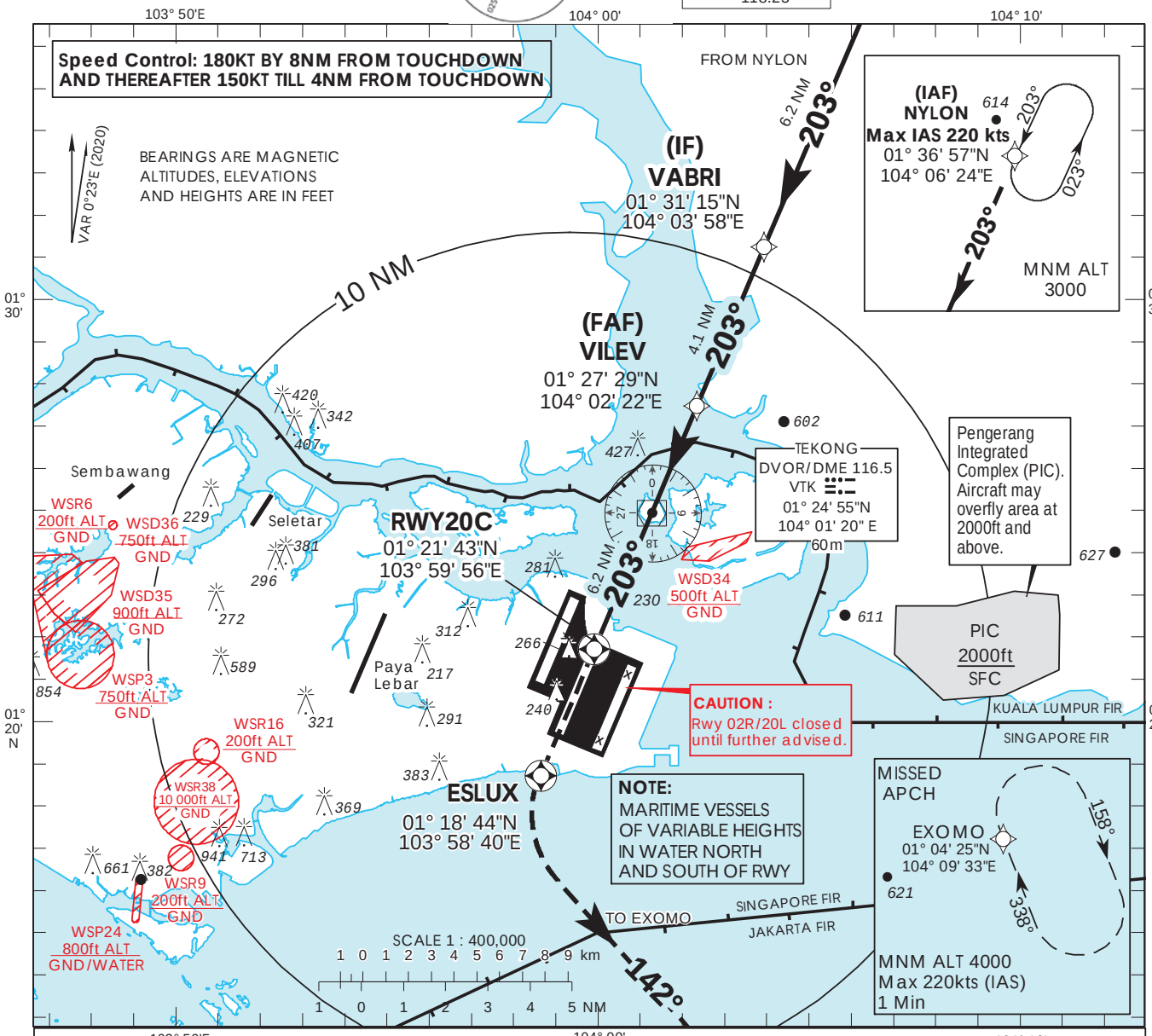
AERODROME ELEV 22ft
HEIGHT RELATED TO
THR RWY 20C - ELEV 16ft

MSA 25 NM from TEKONG DVOR

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

SINGAPORE/ SINGAPORE CHANGI

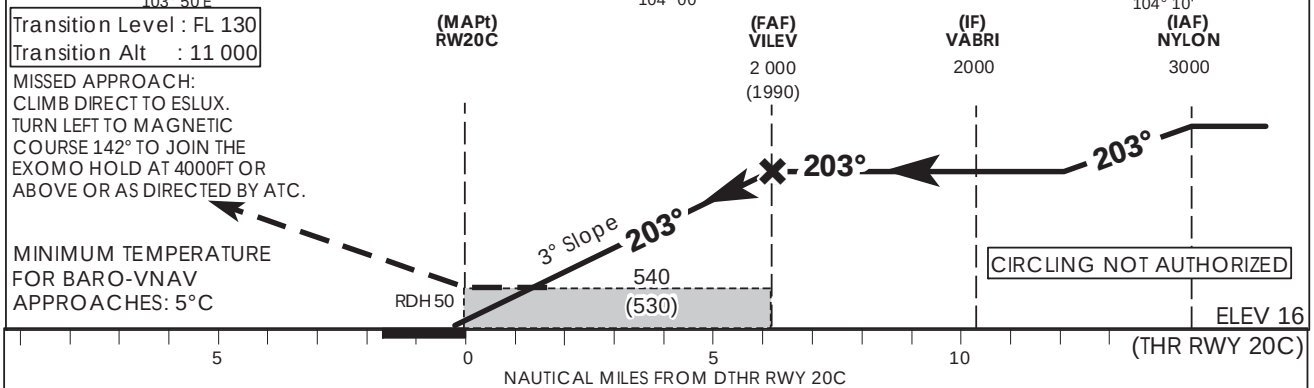
RNP RWY 20C



Transition Level : FL 130
Transition Alt : 11 000

MISSED APPROACH:
CLIMB DIRECT TO ESLUX.
TURN LEFT TO MAGNETIC COURSE 142° TO JOIN THE EXOMO HOLD AT 4000FT OR ABOVE OR AS DIRECTED BY ATC.

MINIMUM TEMPERATURE FOR BARO-VNAV APPROACHES: 5°C



OCA (OCH)					
Category of Aircraft		A	B	C	D
LNAV/VNAV	2.5%	**490 (480)**			
LNAV	2.5%	**540 (530)**			

Fix		NYLON	VABRI	VILEV	RW20C	ESLUX	EXOMO
Altitude (Height)		**3000 (2985)**	**2000 (1985)**	**2000 (1985)**	**540 (525)**	**540 (525)**	**4000 (3985)**
Speed	knots	80	100	120	140	160	180
FAF - MAPt 6.2 nm	min : s	**4 : 39**	**3 : 44**	**3: 06**	**2 : 40**	**2 : 20**	**2 : 04**
Rate of descent/GS	ft/min	**425**	**531**	**637**	**743**	**849**	**955**

CHANGES : 1. Amended missed approach text description
2. Removed EXOMO speed limit in flip-page

SINGAPORE CHANGI RNP-APCH RWY 20C – Approach from NYLON

Path Terminator	Waypoint	Fly-Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed Limit (KT)	VPA/ TCH(FT)	Navigation Specification
IF	NYLON	-	-	-0.4	-	-	A030+	220	-	RNP APCH
TF	VABRI	-	203 (203.4)	-0.4	6.2	-	A020+	-	-	RNP APCH
TF	VILEV	-	203 (203.4)	-0.4	4.1	-	A020+	-	-	RNP APCH
TF	RW20C	Y	203 (203.4)	-0.4	6.2	-	-	-	-3.0° / 50	RNP APCH
DF	ESLUX	Y	-	-0.4	-	L	-	-	-	RNP APCH
TF	EXOMO	-	142 (142.4)	-0.4	-	-	A040+	-	-	RNP APCH

Waypoint Coordinates

Name	Latitude	Longitude
NYLON (IAF)	01° 36’ 57” N	104° 06’ 24” E
VABRI (IF)	01° 31’ 15” N	104° 03’ 58” E
VILEV (FAF)	01° 27’ 29” N	104° 02’ 22” E
RW20C	01° 21’ 43” N	103° 59’ 56” E
ESLUX	01° 18’ 44” N	103° 58’ 40” E
EXOMO	01° 04’ 25” N	104° 09’ 33” E