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AMDT
07/2022
Effective date
29 DEC 2022
Publication date
29 DEC 2022

wp-AMDT-2022-07**1. Significant information and changes****1.1 Singapore FIR**

a. Updated ATS route B469 on flight planning requirements.

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 This amendment incorporates information contained in the listed AIP Supplement and NOTAM which are hereby superseded:

NIL

Amended Pages

GEN 0.2-1/2:	: <i>replace.</i>
GEN 0.3-1/2:	: <i>replace.</i>
GEN 0.3-3/4:	: <i>replace.</i>
GEN 0.3-5/6:	: <i>replace.</i>
GEN 0.4-1/2:	: <i>replace.</i>
GEN 0.4-3:	: <i>replace.</i>
GEN 3.2-3/4:	: <i>replace.</i>
ENR 3.1-5/6:	: <i>replace.</i>
ENR 3.4-1/2:	: <i>replace.</i>
ENR 3.4-3:	: <i>replace.</i>
ENR-3.4-5:	: <i>replace.</i>
AD-2-WSSS-ADC-2:	: <i>replace.</i>

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GEN 0.2 RECORD OF AIP AMENDMENTS**AIP AMENDMENT**

NR/Year	Publication date	Date inserted	Inserted by
5/2014	18 SEP 2014	18 SEP 2014	
6/2014	13 NOV 2014	13 NOV 2014	
1/2015	08 JAN 2015	08 JAN 2015	
2/2015	05 MAR 2015	05 MAR 2015	
3/2015	30 APR 2015	30 APR 2015	
4/2015	25 JUN 2015	25 JUN 2015	
5/2015	20 AUG 2015	20 AUG 2015	
6/2015	15 OCT 2015	15 OCT 2015	
07/2015	10 DEC 2015	10 DEC 2015	
01/2016	04 FEB 2016	04 FEB 2016	
02/2016	31 MAR 2016	31 MAR 2016	
03/2016	26 MAY 2016	26 MAY 2016	
04/2016	21 JUL 2016	21 JUL 2016	
05/2016	15 SEP 2016	15 SEP 2016	
06/2016	10 NOV 2016	10 NOV 2016	
01/2017	05 JAN 2017	05 JAN 2017	
02/2017	02 MAR 2017	02 MAR 2017	
03/2017	27 APR 2017	27 APR 2017	
04/2017	22 JUN 2017	22 JUN 2017	
05/2017	17 AUG 2017	17 AUG 2017	
06/2017	12 OCT 2017	12 OCT 2017	
07/2017	07 DEC 2017	07 DEC 2017	
01/2018	01 FEB 2018	01 FEB 2018	
02/2018	29 MAR 2018	29 MAR 2018	
03/2018	24 MAY 2018	24 MAY 2018	
04/2018	19 JUL 2018	19 JUL 2018	
05/2018	13 SEP 2018	13 SEP 2018	

AIP AMENDMENT

NR/Year	Publication date	Date inserted	Inserted by
06/2018	08 NOV 2018	08 NOV 2018	
01/2019	03 JAN 2019	03 JAN 2019	
02/2019	28 FEB 2019	28 FEB 2019	
03/2019	25 APR 2019	25 APR 2019	
04/2019	20 JUN 2019	20 JUN 2019	
05/2019	15 AUG 2019	15 AUG 2019	
06/2019	10 OCT 2019	10 OCT 2019	
07/2019	05 DEC 2019	05 DEC 2019	
01/2020	30 JAN 2020	30 JAN 2020	
02/2020	26 MAR 2020	26 MAR 2020	
03/2020	21 MAY 2020	21 MAY 2020	
04/2020	16 JUL 2020	16 JUL 2020	
05/2020	10 SEP 2020	10 SEP 2020	
06/2020	05 NOV 2020	05 NOV 2020	
07/2020	31 DEC 2020	31 DEC 2020	
01/2021	25 FEB 2021	25 FEB 2021	
02/2021	22 APR 2021	22 APR 2021	
03/2021	17 JUN 2021	17 JUN 2021	
04/2021	12 AUG 2021	12 AUG 2021	
05/2021	07 OCT 2021	07 OCT 2021	
06/2021	02 DEC 2021	02 DEC 2021	
01/2022	27 JAN 2022	27 JAN 2022	
02/2022	24 MAR 2022	24 MAR 2022	
03/2022	19 MAY 2022	19 MAY 2022	
04/2022	14 JUL 2022	14 JUL 2022	
05/2022	08 SEP 2022	08 SEP 2022	
06/2022	03 NOV 2022	03 NOV 2022	
07/2022	29 DEC 2022	29 DEC 2022	

GEN 0.3 RECORD OF CURRENT AIP SUPPLEMENTS

NR/Year	Subject	AIP section(s) affected	Period of validity (from/to)	Cancellation record
021/2018	Paya Lebar Airport - Luffer Crane and Saddle Cranes	AD	06 APR 2018 / 31 DEC 2022	
028/2018	Paya Lebar Airport - Saddle Cranes	AD	20 JUN 2018 / 31 DEC 2022	
071/2018	Paya Lebar Airport - Saddle Cranes	AD	13 NOV 2018 / 31 DEC 2023	
078/2018	Paya Lebar Airport - Luffer Cranes	AD	28 NOV 2018 / 30 DEC 2022	
033/2019	Paya Lebar Airport - Luffer Crane	AD	27 MAR 2019 / 31 DEC 2022	
034/2019	Paya Lebar Airport - Saddle Cranes	AD	27 MAR 2019 / 31 DEC 2022	
035/2019	Paya Lebar Airport - Luffer Crane	AD	27 MAR 2019 / 31 DEC 2022	
053/2019	Paya Lebar Airport - Saddle Cranes and Luffer Crane	AD	07 MAY 2019 / 31 DEC 2023	
126/2019	Paya Lebar Airport - Luffer Cranes	AD	12 NOV 2019 / 31 DEC 2022	
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	
140/2021	Paya Lebar Airport - Crawler Cranes	AD	09 NOV 2021 / 31 DEC 2022	
147/2021	Paya Lebar Airport - Cranes	AD	16 DEC 2021 / 31 DEC 2022	
148/2021	Paya Lebar Airport - Flat-Top Cranes	AD	16 DEC 2021 / 31 DEC 2022	
149/2021	Paya Lebar Airport - Topless Cranes	AD	16 DEC 2021 / 31 DEC 2022	
150/2021	Paya Lebar Airport - Cranes	AD	16 DEC 2021 / 31 DEC 2022	
153/2021	Paya Lebar Airport - Luffing Cranes	AD	16 DEC 2021 / 31 DEC 2022	
156/2021	Paya Lebar Airport - Crawler Cranes	AD	16 DEC 2021 / 31 DEC 2022	
161/2021	Singapore Changi Airport - Steel Frame	AD	17 JAN 2022 / 17 DEC 2024	
002/2022	Paya Lebar Airport - Luffing Crane	AD	11 JAN 2022 / 31 DEC 2022	
004/2022	Paya Lebar Airport - Tower Cranes	AD	11 JAN 2022 / 31 DEC 2022	
005/2022	Paya Lebar Airport - Tower Cranes	AD	11 JAN 2022 / 31 DEC 2022	
006/2022	Paya Lebar Airport - Luffer Cranes	AD	11 JAN 2022 / 31 DEC 2022	
007/2022	Paya Lebar Airport - Cranes	AD	11 JAN 2022 / 31 DEC 2022	
008/2022	Paya Lebar Airport - Luffing Crane	AD	11 JAN 2022 / 31 DEC 2022	
009/2022	Paya Lebar Airport - Cranes	AD	11 JAN 2022 / 31 DEC 2022	
010/2022	Paya Lebar Airport - Topless Cranes	AD	11 JAN 2022 / 31 DEC 2022	

NR/Year	Subject	AIP section(s) affected	Period of validity (from/to)	Cancellation record
011/2022	Paya Lebar Airport - Luffing Crane	AD	11 JAN 2022 / 31 DEC 2022	
012/2022	Paya Lebar Airport - Topless Cranes	AD	11 JAN 2022 / 31 DEC 2022	
013/2022	Paya Lebar Airport - Topless Cranes	AD	11 JAN 2022 / 31 DEC 2022	
015/2022	Paya Lebar Airport - Luffing Crane	AD	11 JAN 2022 / 31 DEC 2022	
017/2022	Paya Lebar Airport - Flat-Top Cranes	AD	11 JAN 2022 / 31 DEC 2022	
018/2022	Paya Lebar Airport - Luffing Crane	AD	11 JAN 2022 / 31 DEC 2022	
020/2022	Paya Lebar Airport - Luffing Crane	AD	11 JAN 2022 / 31 DEC 2022	
021/2022	Paya Lebar Airport - Cranes	AD	11 JAN 2022 / 31 DEC 2022	
022/2022	Paya Lebar Airport - Cranes	AD	11 JAN 2022 / 31 DEC 2022	
024/2022	Paya Lebar Airport - Flat-Top Cranes	AD	11 JAN 2022 / 31 DEC 2022	
025/2022	Paya Lebar Airport - Saddle Cranes	AD	11 JAN 2022 / 31 DEC 2022	
028/2022	Paya Lebar Airport - Flat-Top Cranes	AD	12 JAN 2022 / 31 DEC 2023	
032/2022	Paya Lebar Airport - Cranes	AD	10 FEB 2022 / 31 DEC 2023	
033/2022	Paya Lebar Airport - Topless Cranes	AD	10 FEB 2022 / 01 FEB 2023	
034/2022	Paya Lebar Airport - Crawler Cranes	AD	10 FEB 2022 / 31 JAN 2023	
035/2022	Paya Lebar Airport - Suspended Scaffold	AD	10 FEB 2022 / 31 DEC 2023	
036/2022	Paya Lebar Airport - Mobile Crane	AD	10 FEB 2022 / 31 DEC 2023	
037/2022	Paya Lebar Airport - Crawler Cranes	AD	10 FEB 2022 / 31 DEC 2023	
040/2022	Paya Lebar Airport - Tower Cranes	AD	10 FEB 2022 / 18 JAN 2023	
042/2022	Paya Lebar Airport - Mobile Crane	AD	10 FEB 2022 / 31 DEC 2023	
043/2022	Paya Lebar Airport - Luffing Tower Crane	AD	10 FEB 2022 / 08 JAN 2023	
045/2022	Singapore Changi Airport - Frangible Frames	AD	01 APR 2022 / 31 JAN 2024	
046/2022	Paya Lebar Airport - Crawler Cranes	AD	10 MAR 2022 / 31 DEC 2022	
047/2022	Paya Lebar Airport - Luffing Crane	AD	10 MAR 2022 / 31 DEC 2022	
048/2022	Paya Lebar Airport - Cranes	AD	10 MAR 2022 / 31 DEC 2023	
049/2022	Paya Lebar Airport - Cranes	AD	10 MAR 2022 / 31 JAN 2023	
051/2022	Paya Lebar Airport - Tower Cranes	AD	10 MAR 2022 / 31 DEC 2023	
052/2022	Paya Lebar Airport - Topless Cranes	AD	10 MAR 2022 / 03 FEB 2023	
057/2022	Paya Lebar Airport - Luffing Cranes	AD	12 APR 2022 / 31 MAR 2023	
058/2022	Paya Lebar Airport - Mobile Cranes	AD	12 APR 2022 / 30 SEP 2023	

NR/Year	Subject	AIP section(s) affected	Period of validity (from/to)	Cancellation record
059/2022	Paya Lebar Airport - Topless Cranes	AD	12 APR 2022 / 30 SEP 2023	
060/2022	Paya Lebar Airport - Cranes	AD	12 APR 2022 / 31 MAR 2023	
062/2022	Paya Lebar Airport - Cranes	AD	12 APR 2022 / 31 MAR 2023	
063/2022	Paya Lebar Airport - Topless Cranes	AD	12 APR 2022 / 01 APR 2023	
066/2022	Paya Lebar Airport - Topless Cranes	AD	12 APR 2022 / 19 MAR 2023	
067/2022	Paya Lebar Airport - Obstacles	AD	12 APR 2022 / 30 DEC 2023	
068/2022	Paya Lebar Airport - Topless Cranes	AD	12 APR 2022 / 09 MAR 2023	
069/2022	Paya Lebar Airport - Luffing Crane	AD	12 APR 2022 / 01 MAR 2023	
071/2022	Paya Lebar Airport - Mobile Crane	AD	05 MAY 2022 / 31 DEC 2022	
072/2022	Paya Lebar Airport - Tower Crane	AD	05 MAY 2022 / 11 APR 2023	
073/2022	Paya Lebar Airport - Cranes	AD	05 MAY 2022 / 30 APR 2023	
074/2022	Paya Lebar Airport - Cranes	AD	05 MAY 2022 / 06 APR 2023	
079/2022	Paya Lebar Airport - Luffing Cranes	AD	02 JUN 2022 / 30 MAY 2023	
080/2022	Sembawang Aerodrome - Excavator Cranes	AD	02 JUN 2022 / 05 APR 2023	
082/2022	Paya Lebar Airport - Mobile Crane	AD	07 JUL 2022 / 31 DEC 2022	
083/2022	Paya Lebar Airport - Topless Tower Cranes	AD	07 JUL 2022 / 10 JUN 2023	
085/2022	Paya Lebar Airport - Tower Crane	AD	07 JUL 2022 / 17 JUN 2023	
086/2022	Paya Lebar Airport - Mobile Cranes	AD	07 JUL 2022 / 21 JUN 2023	
087/2022	Paya Lebar Airport - Luffing Crane	AD	07 JUL 2022 / 25 JUN 2023	
088/2022	Paya Lebar Airport - Crawler Crane	AD	07 JUL 2022 / 31 DEC 2023	
089/2022	Paya Lebar Airport - Luffer Crane	AD	07 JUL 2022 / 21 JUN 2023	
090/2022	Paya Lebar Airport - Mobile Crane	AD	07 JUL 2022 / 31 DEC 2022	
091/2022	Paya Lebar Airport - Cranes	AD	07 JUL 2022 / 31 DEC 2023	
092/2022	Paya Lebar Airport - Cranes	AD	07 JUL 2022 / 08 APR 2023	
093/2022	Paya Lebar Airport - Mobile Crane	AD	07 JUL 2022 / 31 DEC 2023	
095/2022	Paya Lebar Airport - Luffer Cranes	AD	07 JUL 2022 / 31 DEC 2023	
096/2022	Paya Lebar Airport - Mobile Cranes	AD	07 JUL 2022 / 21 JUN 2023	
097/2022	Paya Lebar Airport - Luffing Crane	AD	07 JUL 2022 / 31 DEC 2023	
099/2022	Sembawang Aerodrome - Crawler Crane	AD	07 JUL 2022 / 30 DEC 2022	
100/2022	Sembawang Aerodrome - Mobile Cranes	AD	07 JUL 2022 / 03 JUN 2023	

NR/Year	Subject	AIP section(s) affected	Period of validity (from/to)	Cancellation record
102/2022	Implementation of Direct Routing Operations (DRO) for Arrivals into Singapore Changi Airport on ATS Routes L642 and N892	ENR	08 SEP 2022 PERM	
103/2022	Paya Lebar Airport - Mobile Cranes	AD	04 AUG 2022 / 04 AUG 2023	
104/2022	Paya Lebar Airport - Topless Cranes	AD	04 AUG 2022 / 31 AUG 2023	
105/2022	Paya Lebar Airport - Cranes	AD	04 AUG 2022 / 30 JUL 2023	
106/2022	Paya Lebar Airport - Luffer Crane	AD	04 AUG 2022 / 31 JUL 2023	
107/2022	Paya Lebar Airport - Mobile Crane	AD	04 AUG 2022 / 31 DEC 2023	
108/2022	Paya Lebar Airport - Mobile Crane	AD	04 AUG 2022 / 31 JUL 2023	
109/2022	Paya Lebar Airport - Tower Cranes	AD	04 AUG 2022 / 01 AUG 2023	
110/2022	Paya Lebar Airport - Luffing Crane	AD	04 AUG 2022 / 31 DEC 2022	
111/2022	Paya Lebar Airport - Tower Crane	AD	04 AUG 2022 / 05 AUG 2023	
112/2022	Paya Lebar Airport - Mobile Crane	AD	04 AUG 2022 / 31 DEC 2023	
113/2022	Paya Lebar Airport - Mobile Crane	AD	04 AUG 2022 / 31 DEC 2023	
114/2022	Paya Lebar Airport - Cranes	AD	04 AUG 2022 / 30 DEC 2023	
115/2022	Paya Lebar Airport - Cranes	AD	04 AUG 2022 / 09 JUL 2023	
116/2022	Paya Lebar Airport - Tower Crane	AD	04 AUG 2022 / 09 JUL 2023	
117/2022	Paya Lebar Airport - Topless Cranes	AD	04 AUG 2022 / 01 DEC 2023	
118/2022	Paya Lebar Airport - Luffing Cranes	AD	04 AUG 2022 / 01 DEC 2023	
119/2022	Singapore Changi Airport - Closure of Runway 02C/20C and Taxiways due to Changi East Development Works	AD	06 OCT 2022 / 22 MAR 2023	
120/2022	Singapore Changi Airport - Closure of aircraft stand F50 and taxilane R7 behind aircraft stand at Terminal 2	AD	25 AUG 2022 / 31 JAN 2023	
122/2022	Paya Lebar Airport - Cranes	AD	06 SEP 2022 / 31 DEC 2023	
123/2022	Paya Lebar Airport - Luffing Cranes	AD	06 SEP 2022 / 31 DEC 2023	
124/2022	Paya Lebar Airport - Mobile Cranes	AD	06 SEP 2022 / 28 DEC 2023	
125/2022	Paya Lebar Airport - Luffer Cranes	AD	06 SEP 2022 / 31 DEC 2023	
126/2022	Paya Lebar Airport - Mobile Crane	AD	06 SEP 2022 / 02 SEP 2023	
127/2022	Paya Lebar Airport - Luffer Crane	AD	06 SEP 2022 / 05 AUG 2023	
128/2022	Paya Lebar Airport - Cranes	AD	06 SEP 2022 / 05 AUG 2023	
129/2022	Singapore Changi Airport - Release of weather balloon with dual radiosondes	ENR	22 SEP 2022 / 21 JUN 2023	
130/2022	Seletar Airport - Closure of Helicopter Landing Area	AD	28 SEP 2022 / 30 SEP 2023	

NR/Year	Subject	AIP section(s) affected	Period of validity (from/to)	Cancellation record
131/2022	Paya Lebar Airport - Flat-Top Cranes	AD	30 NOV 2022 / 31 DEC 2023	
132/2022	Paya Lebar Airport - Cranes	AD	06 OCT 2022 / 07 OCT 2023	
133/2022	Paya Lebar Airport - Derrick Cranes	AD	06 OCT 2022 / 31 DEC 2023	
134/2022	Paya Lebar Airport - Mobile Crane	AD	06 OCT 2022 / 06 JUN 2023	
135/2022	Paya Lebar Airport - Crawler Cranes	AD	06 OCT 2022 / 20 SEP 2023	
136/2022	Paya Lebar Airport - Luffing Cranes	AD	06 OCT 2022 / 01 OCT 2023	
137/2022	Paya Lebar Airport - Mobile Cranes	AD	06 OCT 2022 / 20 MAR 2023	
138/2022	Paya Lebar Airport - Luffing Cranes	AD	06 OCT 2022 / 01 MAY 2023	
139/2022	Paya Lebar Airport - Tower Cranes	AD	06 OCT 2022 / 23 SEP 2023	
140/2022	Paya Lebar Airport - Topless Cranes	AD	06 OCT 2022 / 01 SEP 2023	
141/2022	Paya Lebar Airport - Luffer Crane	AD	06 OCT 2022 / 10 DEC 2023	
142/2022	Paya Lebar Airport - Mobile Cranes	AD	06 OCT 2022 / 10 FEB 2023	
143/2022	Singapore Changi Airport - Frangible Frames	AD	31 OCT 2022 / 31 JAN 2024	
144/2022	Temporary withdrawal and replacement of Mersing DVOR/DME (VMR)	AD/ENR	01 DEC 2022 / 03 JUN 2023	
145/2022	Paya Lebar Airport - Cranes	AD	10 NOV 2022 / 31 DEC 2023	
146/2022	Paya Lebar Airport - Topless Cranes	AD	10 NOV 2022 / 28 OCT 2023	
147/2022	Paya Lebar Airport - Mobile Crane	AD	10 NOV 2022 / 28 FEB 2023	
148/2022	Paya Lebar Airport - Cranes	AD	10 NOV 2022 / 01 NOV 2023	
149/2022	Paya Lebar Airport - Cranes	AD	10 NOV 2022 / 01 NOV 2023	
150/2022	Paya Lebar Airport - Mobile Cranes	AD	10 NOV 2022 / 20 APR 2023	
151/2022	Paya Lebar Airport - Topless Cranes	AD	10 NOV 2022 / 10 SEP 2023	
152/2022	Paya Lebar Airport - Mobile Cranes	AD	10 NOV 2022 / 29 NOV 2023	
153/2022	Singapore Changi Airport - Closure of aircraft stand E3 at Terminal 2	AD	06 DEC 2022 / 31 MAR 2023	
154/2022	Paya Lebar Airport - Mobile Cranes	AD	15 DEC 2022 / 01 AUG 2023	
155/2022	Paya Lebar Airport - Tower Cranes	AD	15 DEC 2022 / 01 DEC 2023	
156/2022	Paya Lebar Airport - Mobile Crane	AD	15 DEC 2022 / 10 APR 2023	
157/2022	Paya Lebar Airport - Cranes	AD	15 DEC 2022 / 15 NOV 2023	
158/2022	Paya Lebar Airport - Mobile Crane	AD	15 DEC 2022 / 31 DEC 2023	
159/2022	Paya Lebar Airport - Topless Cranes	AD	15 DEC 2022 / 01 NOV 2023	
160/2022	Paya Lebar Airport - Topless Cranes	AD	15 DEC 2022 / 31 DEC 2023	

<i>NR/Year</i>	<i>Subject</i>	<i>AIP section(s) affected</i>	<i>Period of validity (from/to)</i>	<i>Cancellation record</i>
161/2022	Singapore Changi Airport - Upgrading of Taxiway U4, and Taxiways U8 and U9 between Taxiway U4 and Taxiway T, to ICAO Code 'F' aircraft compliant and Re-designation of Taxiways U3 and U4 to Taxiway U	AD	09 FEB 2023 PERM	
162/2022	Singapore Changi Airport - Partial closure of Taxilanes R1, R2, R3, and closure of aircraft stands E4 and F34 for construction work activities at Terminal 2	AD	31 JAN 2023 / 30 JAN 2024	
163/2022	Singapore Changi Airport - Closure of Taxiways P4, P5, Taxilane P6, and aircraft stand E12 for construction work activities at Terminal 2	AD	02 FEB 2023 / 30 AUG 2023	

GEN 0.4 CHECKLIST OF AIP PAGES

Part 1 – General (GEN)					
GEN 0					
GEN 0.1-1	26 MAR 2020	GEN 3.1-4	19 MAY 2022	ENR 1.6-6	03 NOV 2022
GEN 0.1-2	03 NOV 2022	GEN 3.2-1	19 MAY 2022	ENR 1.6-7	14 JUL 2022
GEN 0.1-3	19 MAY 2022	GEN 3.2-2	31 MAR 2016	ENR 1.6-8	03 NOV 2022
GEN 0.2-1	13 SEP 2018	GEN 3.2-3	31 MAR 2016	ENR 1.6-9	03 NOV 2022
GEN 0.2-2	29 DEC 2022	GEN 3.2-4	29 DEC 2022	ENR 1.6-10	03 NOV 2022
GEN 0.2-3	14 JUL 2022	GEN 3.2-5	14 JUL 2022	ENR 1.6-11	03 NOV 2022
GEN 0.3-1	29 DEC 2022	GEN 3.2-6	19 MAY 2022	ENR 1.7-1	14 JUL 2022
GEN 0.3-2	29 DEC 2022	GEN 3.3-1	19 MAY 2022	ENR 1.7-2	14 JUL 2022
GEN 0.3-3	29 DEC 2022	GEN 3.3-2	19 MAY 2022	ENR 1.7-3	15 AUG 2019
GEN 0.3-4	29 DEC 2022	GEN 3.4-1	19 MAY 2022	ENR 1.7-4	15 AUG 2019
GEN 0.3-5	29 DEC 2022	GEN 3.4-2	19 MAY 2022	ENR 1.7-5	15 AUG 2019
GEN 0.3-6	29 DEC 2022	GEN 3.4-3	10 SEP 2020	ENR 1.7-6	03 NOV 2022
GEN 0.4-1	29 DEC 2022	GEN 3.4-4	19 MAY 2022	ENR 1.7-7	03 NOV 2022
GEN 0.4-2	29 DEC 2022	GEN 3.4-5	12 NOV 2015	ENR 1.8-1	03 NOV 2022
GEN 0.4-3	29 DEC 2022	GEN 3.4-7	10 SEP 2020	ENR 1.8-2	03 NOV 2022
GEN 0.5-1	30 JAN 2020	GEN 3.4-9	21 JUL 2016	ENR 1.8-3	02 DEC 2021
GEN 0.6-1	05 NOV 2020	GEN 3.5-1	19 MAY 2022	ENR 1.8-4	03 NOV 2022
GEN 0.6-2	19 MAY 2022	GEN 3.5-2	19 MAY 2022	ENR 1.8-5	03 NOV 2022
GEN 0.6-3	19 MAY 2022	GEN 3.5-3	19 MAY 2022	ENR 1.8-6	03 NOV 2022
GEN 1		GEN 3.5-4	22 APR 2021	ENR 1.8-7	03 NOV 2022
GEN 1.1-1	05 DEC 2019	GEN 3.5-5	19 MAY 2022	ENR 1.8-8	03 NOV 2022
GEN 1.1-2	22 APR 2021	GEN 3.5-6	31 DEC 2020	ENR 1.8-9	03 NOV 2022
GEN 1.2-1	05 NOV 2020	GEN 3.5-7	19 MAY 2022	ENR 1.8-10	03 NOV 2022
GEN 1.2-2	30 JAN 2020	GEN 3.5-8	19 MAY 2022	ENR 1.8-11	03 NOV 2022
GEN 1.2-3	19 MAY 2022	GEN 3.5-9	19 MAY 2022	ENR 1.8-12	03 NOV 2022
GEN 1.2-4	19 MAY 2022	GEN 3.6-1	19 MAY 2022	ENR 1.8-13	03 NOV 2022
GEN 1.2-5	02 DEC 2021	GEN 3.6-2	19 MAY 2022	ENR 1.8-14	03 NOV 2022
GEN 1.2-6	16 JUL 2020	GEN 3.6-3	07 OCT 2021	ENR 1.8-15	03 NOV 2022
GEN 1.2-7	30 JAN 2020	GEN 3.6-4	07 OCT 2021	ENR 1.8-16	03 NOV 2022
GEN 1.3-1	25 APR 2019	GEN 3.6-5	21 JUL 2016	ENR 1.8-17	03 NOV 2022
GEN 1.3-2	22 APR 2021	GEN 4		ENR 1.8-18	03 NOV 2022
GEN 1.3-3	22 APR 2021	GEN 4.1-1	14 JUL 2022	ENR 1.8-19	03 NOV 2022
GEN 1.3-4	12 AUG 2021	GEN 4.2-1	24 MAY 2018	ENR 1.8-20	03 NOV 2022
GEN 1.3-5	22 APR 2021	GEN 4.2-2	12 NOV 2015	ENR 1.8-21	03 NOV 2022
GEN-1.3/ARR PAX FLOW	25 APR 2019	GEN 4.2-3	12 NOV 2015	ENR 1.8-22	03 NOV 2022
GEN-1.3/DEP PAX FLOW 1	25 APR 2019	GEN 4.2-4	12 NOV 2015	ENR 1.8-23	03 NOV 2022
GEN-1.3/DEP PAX FLOW 2	25 APR 2019	GEN 4.2-5	12 NOV 2015	ENR 1.8-24	03 NOV 2022
GEN 1.4-1	22 APR 2021	GEN 4.2-6	12 NOV 2015	ENR 1.8-25	03 NOV 2022
GEN 1.4-2	05 NOV 2020	Part 2 – EN-ROUTE (ENR)		ENR 1.8-26	03 NOV 2022
GEN 1.4-3	14 JUL 2022	ENR 0		ENR 1.8-27	03 NOV 2022
GEN 1.5-1	12 NOV 2015	ENR 0.6-1	03 NOV 2022	ENR 1.8-28	03 NOV 2022
GEN 1.6-1	19 MAY 2022	ENR 0.6-2	03 NOV 2022	ENR 1.9-1	12 AUG 2021
GEN 1.6-2	19 MAY 2022	ENR 0.6-3	03 NOV 2022	ENR 1.9-2	07 OCT 2021
GEN 1.6-3	19 MAY 2022	ENR 0.6-4	03 NOV 2022	ENR 1.9-3	07 OCT 2021
GEN 1.6-4	05 NOV 2020	ENR 0.6-5	03 NOV 2022	ENR 1.9-4	07 OCT 2021
GEN 1.7-1	08 SEP 2022	ENR 0.6-6	03 NOV 2022	ENR 1.9-5	07 OCT 2021
GEN 1.7-2	08 SEP 2022	ENR 1		ENR 1.10-1	08 SEP 2022
GEN 1.7-3	08 SEP 2022	ENR 1.1-1	03 NOV 2022	ENR 1.10-2	14 JUL 2022
GEN 1.7-4	08 SEP 2022	ENR 1.1-2	12 NOV 2015	ENR 1.10-3	14 JUL 2022
GEN 2		ENR 1.1-3	03 NOV 2022	ENR 1.11-1	03 NOV 2022
GEN 2.1-1	24 MAR 2022	ENR 1.1-4	03 NOV 2022	ENR 1.12-1	12 NOV 2015
GEN 2.1-2	03 NOV 2022	ENR 1.1-5	12 NOV 2015	ENR 1.12-2	12 NOV 2015
GEN 2.2-1	02 MAR 2017	ENR 1.1-6	03 NOV 2022	ENR 1.12-3	12 NOV 2015
GEN 2.2-2	02 MAR 2017	ENR 1.1-7	12 NOV 2015	ENR 1.12-4	12 NOV 2015
GEN 2.2-3	02 MAR 2017	ENR 1.1-8	14 JUL 2022	ENR 1.13-1	12 NOV 2015
GEN 2.2-4	05 JAN 2017	ENR 1.1-9	08 SEP 2022	ENR 1.14-1	10 DEC 2015
GEN 2.2-5	10 NOV 2016	ENR 1.1-10	08 SEP 2022	ENR 1.14-2	15 SEP 2016
GEN 2.3-1	12 NOV 2015	ENR 1.1-11	08 NOV 2018	ENR-1.14-3 to ENR-1.14-4	15 SEP 2016
GEN 2.3-2	12 NOV 2015	ENR 1.1-12	03 NOV 2022	ENR-1.14-5 to ENR-1.14-6	15 SEP 2016
GEN 2.3-3	12 NOV 2015	ENR 1.1-13	03 NOV 2022	ENR-1.14-7 to ENR-1.14-8	15 AUG 2019
GEN 2.4-1	25 APR 2019	ENR 1.1-14	03 NOV 2022	ENR 2	
GEN 2.5-1	08 SEP 2022	ENR 1.2-1	24 MAR 2022	ENR 2.1-1	12 AUG 2021
GEN-2.5-3	08 SEP 2022	ENR 1.3-1	12 NOV 2015	ENR 2.1-2	08 SEP 2022
GEN 2.6-1	12 NOV 2015	ENR 1.4-1	12 NOV 2015	ENR 2.1-3	03 JAN 2019
GEN 2.6-2	12 NOV 2015	ENR 1.5-1	03 NOV 2022	ENR 2.1-4	25 APR 2019
GEN 2.7-1	05 DEC 2019	ENR 1.5-2	14 JUL 2022	ENR-2.1-7	21 JUL 2016
GEN 3		ENR 1.5-3	03 NOV 2022	ENR-2.1-9	08 SEP 2022
GEN 3.1-1	19 MAY 2022	ENR 1.5-4	03 NOV 2022	ENR-2.1-11A	21 JUL 2016
GEN 3.1-2	10 OCT 2019	ENR 1.6-1	03 NOV 2022	ENR-2.1-11B	08 SEP 2022
GEN 3.1-3	02 DEC 2021	ENR 1.6-2	03 NOV 2022	ENR-2.1-13	21 JUL 2016
		ENR 1.6-3	03 NOV 2022	ENR 3	
		ENR 1.6-4	03 NOV 2022	ENR 3.1-1	02 MAR 2017
		ENR 1.6-5	03 NOV 2022	ENR 3.1-2	02 MAR 2017
				ENR 3.1-3	07 OCT 2021
				ENR 3.1-4	07 OCT 2021

ENR 3.1-5	12 NOV 2015	ENR 5		AD 2.WSSS-35	31 DEC 2020
ENR 3.1-6	29 DEC 2022	ENR 5.1-1	30 JAN 2020	AD 2.WSSS-36	31 DEC 2020
ENR 3.1-7	07 OCT 2021	ENR 5.1-2	08 SEP 2022	AD 2.WSSS-37	31 DEC 2020
ENR 3.1-8	17 JUN 2021	ENR 5.1-3	14 JUL 2022	AD 2.WSSS-38	31 DEC 2020
ENR 3.1-9	08 SEP 2022	ENR 5.1-4	14 JUL 2022	AD 2.WSSS-39	17 JUN 2021
ENR 3.1-10	08 SEP 2022	ENR 5.1-5	14 JUL 2022	AD 2.WSSS-40	17 JUN 2021
ENR 3.1-11	07 OCT 2021	ENR-5.1-7	08 SEP 2022	AD 2.WSSS-41	08 SEP 2022
ENR 3.1-12	17 JUN 2021	ENR-5.1-9	14 JUL 2022	AD 2.WSSS-42	07 OCT 2021
ENR 3.1-13	17 JUN 2021	ENR 5.2-1	03 JAN 2019	AD 2.WSSS-43	03 NOV 2022
ENR 3.1-14	08 SEP 2022	ENR 5.2-2	03 JAN 2019	AD 2.WSSS-44	03 NOV 2022
ENR 3.1-15	17 JUN 2021	ENR 5.2-3	03 JAN 2019	AD 2.WSSS-45	03 NOV 2022
ENR 3.1-16	17 JUN 2021	ENR 5.3-1	14 JUL 2022	AD 2.WSSS-46	03 NOV 2022
ENR 3.1-17	08 SEP 2022	ENR 5.4-1	12 NOV 2015	AD 2.WSSS-47	03 NOV 2022
ENR 3.3-1	17 JUN 2021	ENR 5.5-1	14 JUL 2022	AD 2.WSSS-48	03 NOV 2022
ENR 3.3-2	02 MAR 2017	ENR 5.6-1	21 MAY 2020	AD-2.WSSS-ADC-1	31 DEC 2020
ENR 3.3-3	19 JUL 2018	ENR 5.6-2	12 NOV 2015	AD-2.WSSS-ADC-2	29 DEC 2022
ENR 3.3-4	12 NOV 2015	ENR 6		AD-2.WSSS-ADC-3	12 AUG 2021
ENR 3.3-5	12 NOV 2015	ENR 6-1	15 SEP 2016	AD-2.WSSS-AOC-1	08 SEP 2022
ENR 3.3-6	08 SEP 2022	ERC-6-1 En-Route Chart	08 SEP 2022	AD-2.WSSS-AOC-2	31 DEC 2020
ENR 3.3-7	08 SEP 2022	WAC-2860-Singapore-Island	08 SEP 2022	AD-2.WSSS-AOC-3	14 JUL 2022
ENR 3.3-8	02 MAR 2017	Part 3 – AERODROMES (AD)		AD-2.WSSS-AOC-4	08 SEP 2022
ENR 3.3-9	07 DEC 2017	AD 0		AD-2.WSSS-PATC-1	10 OCT 2019
ENR 3.3-10	07 DEC 2017	AD 0.6-1	02 DEC 2021	AD-2.WSSS-PATC-2	01 FEB 2018
ENR 3.3-11	29 MAR 2018	AD 0.6-2	03 NOV 2022	AD-2.WSSS-PATC-3	31 DEC 2020
ENR 3.3-12	17 JUN 2021	AD 0.6-3	03 NOV 2022	AD-2.WSSS-PATC-4	31 DEC 2020
ENR 3.3-13	12 AUG 2021	AD 0.6-4	03 NOV 2022	AD-2.WSSS-SID-1 to 1.1	12 AUG 2021
ENR 3.3-14	08 SEP 2022	AD 0.6-5	03 NOV 2022	AD-2.WSSS-SID-2 to 2.1	12 AUG 2021
ENR 3.3-15	07 DEC 2017	AD 0.6-6	03 NOV 2022	AD-2.WSSS-SID-3 to 3.1	12 AUG 2021
ENR 3.3-16	07 DEC 2017	AD 0.6-7	03 NOV 2022	AD-2.WSSS-SID-4 to 4.1	12 AUG 2021
ENR 3.3-17	07 DEC 2017	AD 1		AD-2.WSSS-SID-5 to 5.1	12 AUG 2021
ENR 3.3-18	12 AUG 2021	AD 1.1-1	12 NOV 2015	AD-2.WSSS-SID-6 to 6.1	12 AUG 2021
ENR 3.3-19	19 JUL 2018	AD 1.1-2	12 NOV 2015	AD-2.WSSS-SID-7 to 7.1	12 AUG 2021
ENR 3.3-20	07 DEC 2017	AD 1.1-3	15 AUG 2019	AD-2.WSSS-SID-8 to 8.1	12 AUG 2021
ENR 3.3-21	19 JUL 2018	AD 1.1-4	02 DEC 2021	AD-2.WSSS-SID-9 to 9.1	12 AUG 2021
ENR 3.3-22	08 SEP 2022	AD 1.1-5	02 DEC 2021	AD-2.WSSS-SID-10 to 10.1	12 AUG 2021
ENR 3.3-23	07 DEC 2017	AD 1.2-1	12 NOV 2015	AD-2.WSSS-SID-11 to 11.1	12 AUG 2021
ENR 3.3-24	17 JUN 2021	AD 1.3-1	12 NOV 2015	AD-2.WSSS-SID-12 to 12.1	12 AUG 2021
ENR 3.3-25	12 AUG 2021	AD-1.3-3	21 JUL 2016	AD-2.WSSS-SID-13 to 13.1	12 AUG 2021
ENR 3.3-26	07 DEC 2017	AD 1.4-1	12 NOV 2015	AD-2.WSSS-SID-14 to 14.1	12 AUG 2021
ENR 3.3-27	12 AUG 2021	AD 1.5-1	10 SEP 2020	AD-2.WSSS-SID-15 to 15.1	12 AUG 2021
ENR 3.3-28	07 DEC 2017	AD 2		AD-2.WSSS-SID-16 to 16.1	12 AUG 2021
ENR 3.3-29	08 SEP 2022	AD 2.WSSS-1	31 DEC 2020	AD-2.WSSS-SID-17 to 17.1	12 AUG 2021
ENR 3.3-30	08 SEP 2022	AD 2.WSSS-2	31 DEC 2020	AD-2.WSSS-SID-18 to 18.1	12 AUG 2021
ENR 3.3-31	12 AUG 2021	AD 2.WSSS-3	31 DEC 2020	AD-2.WSSS-SID-19 to 19.1	24 MAR 2022
ENR 3.3-32	08 SEP 2022	AD 2.WSSS-4	07 OCT 2021	AD-2.WSSS-STAR-1 to 1.1	12 AUG 2021
ENR 3.3-33	08 SEP 2022	AD 2.WSSS-5	25 FEB 2021	AD-2.WSSS-STAR-2 to 2.1	12 AUG 2021
ENR 3.3-34	07 DEC 2017	AD 2.WSSS-6	31 DEC 2020	AD-2.WSSS-STAR-3 to 3.1	12 AUG 2021
ENR 3.3-35	08 SEP 2022	AD 2.WSSS-7	31 DEC 2020	AD-2.WSSS-STAR-4 to 4.1	12 AUG 2021
ENR 3.3-36	07 DEC 2017	AD 2.WSSS-8	31 DEC 2020	AD-2.WSSS-STAR-5 to 5.1	12 AUG 2021
ENR 3.3-37	07 DEC 2017	AD 2.WSSS-9	31 DEC 2020	AD-2.WSSS-STAR-6 to 6.1	12 AUG 2021
ENR 3.3-38	17 JUN 2021	AD 2.WSSS-10	31 DEC 2020	AD-2.WSSS-STAR-7 to 7.1	12 AUG 2021
ENR 3.3-39	17 JUN 2021	AD 2.WSSS-11	31 DEC 2020	AD-2.WSSS-STAR-8 to 8.1	12 AUG 2021
ENR 3.3-40	17 JUN 2021	AD 2.WSSS-12	31 DEC 2020	AD-2.WSSS-STAR-9 to 9.1	08 SEP 2022
ENR 3.3-41	17 JUN 2021	AD 2.WSSS-13	07 OCT 2021	AD-2.WSSS-STAR-10 to 10.1	12 AUG 2021
ENR 3.3-42	17 JUN 2021	AD 2.WSSS-14	31 DEC 2020	AD-2.WSSS-STAR-11 to 11.1	12 AUG 2021
ENR 3.3-43	02 DEC 2021	AD 2.WSSS-15	31 DEC 2020	AD-2.WSSS-STAR-13 to 13.1	12 AUG 2021
ENR 3.4-1	12 NOV 2015	AD 2.WSSS-16	31 DEC 2020	AD-2.WSSS-STAR-14 to 14.1	12 AUG 2021
ENR 3.4-2	29 DEC 2022	AD 2.WSSS-17	31 DEC 2020	AD-2.WSSS-STAR-15 to 15.1	07 OCT 2021
ENR 3.4-3	29 DEC 2022	AD 2.WSSS-18	03 NOV 2022	AD-2.WSSS-STAR-16 to 16.1	07 OCT 2021
ENR 3.4-4	29 DEC 2022	AD 2.WSSS-19	25 FEB 2021	AD-2.WSSS-STAR-17 to 17.1	12 AUG 2021
ENR 3.4-5	29 DEC 2022	AD 2.WSSS-20	31 DEC 2020	AD-2.WSSS-STAR-18 to 18.1	12 AUG 2021
ENR 3.4-6	21 JUL 2016	AD 2.WSSS-21	31 DEC 2020	AD-2.WSSS-STAR-19 to 19.1	12 AUG 2021
ENR 3.4-7	21 JUL 2016	AD 2.WSSS-22	14 JUL 2022	AD-2.WSSS-STAR-20 to 20.1	12 AUG 2021
ENR 3.5-1	02 MAR 2017	AD 2.WSSS-23	31 DEC 2020	AD-2.WSSS-STAR-21 to 21.1	12 AUG 2021
ENR 3.5-2	02 MAR 2017	AD 2.WSSS-24	07 OCT 2021	AD-2.WSSS-IAC-1	14 JUL 2022
ENR 3.5-3	08 SEP 2022	AD 2.WSSS-25	31 DEC 2020	AD-2.WSSS-IAC-2	14 JUL 2022
ENR 3.6-1	27 APR 2017	AD 2.WSSS-26	31 DEC 2020	AD-2.WSSS-IAC-5	14 JUL 2022
ENR 3.6-2	07 OCT 2021	AD 2.WSSS-27	08 SEP 2022	AD-2.WSSS-IAC-6	14 JUL 2022
ENR 3.6-3	03 NOV 2022	AD 2.WSSS-28	31 DEC 2020	AD-2.WSSS-IAC-7	14 JUL 2022
ENR 3.6-4	03 NOV 2022	AD 2.WSSS-29	17 JUN 2021	AD-2.WSSS-IAC-9 to 9.1	08 SEP 2022
ENR 3.6-5	03 NOV 2022	AD 2.WSSS-30	17 JUN 2021	AD-2.WSSS-IAC-10 to 10.1	08 SEP 2022
ENR 4		AD 2.WSSS-31	31 DEC 2020		
ENR 4.1-1	03 NOV 2022	AD 2.WSSS-32	31 DEC 2020		
ENR 4.1-2	08 SEP 2022	AD 2.WSSS-33	31 DEC 2020		
ENR 4.3-1	12 NOV 2015	AD 2.WSSS-34	31 DEC 2020		
ENR 4.4-1	12 AUG 2021				
ENR 4.4-2	12 AUG 2021				
ENR 4.4-3	08 SEP 2022				
ENR 4.4-4	08 SEP 2022				
ENR 4.4-5	08 SEP 2022				
ENR 4.4-6	08 SEP 2022				
ENR 4.5-1	10 SEP 2020				

AD-2-WSSS-IAC-11 to 11.1	14 JUL 2022	AD-2-WIDD-STAR-1	12 NOV 2015
AD-2-WSSS-IAC-12 to 12.1	14 JUL 2022	AD-2-WIDD-STAR-2	12 NOV 2015
AD-2-WSSS-IAC-13 to 13.1	08 SEP 2022	AD-2-WIDD-STAR-3	12 NOV 2015
AD-2-WSSS-IAC-14 to 14.1	14 JUL 2022	AD-2-WIDD-STAR-4	12 NOV 2015
AD-2-WSSS-VAC-1 to 1.1	08 SEP 2022	AD 2.WIDN-1	03 JAN 2019
AD 2.WSSL-1	10 SEP 2020	AD 2.WIDN-2	03 JAN 2019
AD 2.WSSL-2	28 FEB 2019	AD-2-WIDN-SID-1	12 NOV 2015
AD 2.WSSL-3	15 AUG 2019	AD-2-WIDN-SID-2	12 NOV 2015
AD 2.WSSL-4	05 DEC 2019	AD-2-WIDN-SID-3	12 NOV 2015
AD 2.WSSL-5	12 AUG 2021	AD-2-WIDN-SID-4	12 NOV 2015
AD 2.WSSL-6	08 SEP 2022	AD-2-WIDN-STAR-1	12 NOV 2015
AD 2.WSSL-7	08 SEP 2022	AD-2-WIDN-STAR-2	12 NOV 2015
AD 2.WSSL-8	08 SEP 2022	AD-2-WIDN-STAR-3	21 JUL 2016
AD 2.WSSL-9	08 SEP 2022	AD-2-WIDN-STAR-4	12 NOV 2015
AD 2.WSSL-10	08 SEP 2022		
AD 2.WSSL-11	03 NOV 2022		
AD 2.WSSL-12	03 NOV 2022		
AD 2.WSSL-13	08 SEP 2022		
AD 2.WSSL-14	08 SEP 2022		
AD 2.WSSL-15	08 SEP 2022		
AD 2.WSSL-16	08 SEP 2022		
AD 2.WSSL-17	08 SEP 2022		
AD 2.WSSL-18	03 NOV 2022		
AD 2.WSSL-19	03 NOV 2022		
AD 2.WSSL-20	03 NOV 2022		
AD 2.WSSL-21	03 NOV 2022		
AD-2-WSSL-ADC-1	08 SEP 2022		
AD-2-WSSL-ADC-2	03 NOV 2022		
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	08 SEP 2022		
AD-2-WSSL-IFR-1	08 SEP 2022		
AD-2-WSSL-IFR-2	08 SEP 2022		
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	14 JUL 2022		
AD 2.WSAP-9	07 OCT 2021		
AD 2.WSAP-10	16 JUL 2020		
AD 2.WSAP-11	14 JUL 2022		
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	08 SEP 2022		
AD-2-WSAP-IAC-2	08 SEP 2022		
AD-2-WSAP-IAC-3	14 JUL 2022		
AD-2-WSAP-IAC-4	14 JUL 2022		
AD-2-WSAP-IAC-5	14 JUL 2022		
AD-2-WSAP-IAC-6	14 JUL 2022		
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	12 AUG 2021		
AD 2.WSAT-6	07 OCT 2021		
AD 2.WSAT-7	12 NOV 2015		
AD 2.WSAT-8	25 FEB 2021		
AD-2-WSAT-ADC-1	17 JUN 2021		
AD 2.WSAG-1	16 JUL 2020		
AD 2.WSAG-2	08 NOV 2018		
AD 2.WSAG-3	12 AUG 2021		
AD 2.WSAG-4	03 NOV 2022		
AD 2.WMKJ-1	12 NOV 2015		
AD 2.WIDD-1	12 NOV 2015		
AD 2.WIDD-2	12 NOV 2015		
AD-2-WIDD-SID-1	12 NOV 2015		
AD-2-WIDD-SID-2	12 NOV 2015		
AD-2-WIDD-SID-3	12 NOV 2015		
AD-2-WIDD-SID-4	12 NOV 2015		

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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					
<i>Title of Chart Series</i>	<i>Scale</i>	<i>Name and/or number</i>		<i>Price (\$)</i>	<i>Date</i>
World Aeronautical Chart ICAO (WAC)	1:1 000 000	WAC 2860		In AIP	08 SEP 22
Enroute Chart ICAO (ENRC)		ERC 6-1		In AIP	08 SEP 22
Instrument Approach Chart ICAO (IAC)		Singapore Changi			
	1:400 000	RWY 02L - ICW ILS/DME	AD-2-WSSS-IAC-1	In AIP	14 JUL 22
	1:400 000	RWY 02C - ICE ILS/DME	AD-2-WSSS-IAC-2	In AIP	14 JUL 22
	1:400 000	RWY 20R - ICH ILS/DME	AD-2-WSSS-IAC-5	In AIP	14 JUL 22
	1:400 000	RWY 20C - ICC ILS/DME	AD-2-WSSS-IAC-6	In AIP	14 JUL 22
	1:400 000	RWY 20C - VTK DVOR/DME	AD-2-WSSS-IAC-7	In AIP	14 JUL 22
	1:400 000	RWY 02L - RNP	AD-2-WSSS-IAC-9	In AIP	08 SEP 22
	1:400 000	RWY 02C - RNP	AD-2-WSSS-IAC-10	In AIP	08 SEP 22
	1:400 000	RWY 20R - RNP	AD-2-WSSS-IAC-11	In AIP	14 JUL 22
	1:400 000	RWY 20C - RNP	AD-2-WSSS-IAC-12	In AIP	14 JUL 22
	1:400 000	RWY 02R - RNP	AD-2-WSSS-IAC-13	In AIP	08 SEP 22
	1:400 000	RWY 20L - RNP	AD-2-WSSS-IAC-14	In AIP	14 JUL 22
		Paya Lebar			
	1:400 000	RWY 20 - PU DVOR/DME	AD-2-WSAP IAC-1	In AIP	08 SEP 22
	1:400 000	RWY 02 - PU DVOR/DME	AD-2-WSAP IAC-2	In AIP	08 SEP 22
	1:400 000	RWY 20 - IPS ILS/DME	AD-2-WSAP IAC-3	In AIP	14 JUL 22
	1:400 000	RWY 02 - IPN ILS/DME	AD-2-WSAP IAC-4	In AIP	14 JUL 22
	1:400 000	RWY 02 - RNP	AD-2-WSAP-IAC-5	In AIP	14 JUL 22
	1:400 000	RWY 20 - RNP	AD-2-WSAP-IAC-6	In AIP	14 JUL 22
Visual Approach Chart ICAO (VAC)	1:400 000	Singapore Changi	AD-2-WSSS-VAC-1	In AIP	08 SEP 22
		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	29 DEC 22
		Seletar	AD-2-WSSL-ADC-1	In AIP	08 SEP 22
		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	31 DEC 20
	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

Route Designator {RNP Type}		[Route Usage Notes]								
	Significant Point Name	Significant Point Coordinates						Remarks		
{RNP Type}	Track MAG ↓ ↑	Dist NM	(COP)	Upper limit	MNM FLT ALT	Lateral limits NM	FL series		Controlling unit Frequency {Airspace class} Remarks	
				Lower limit			↓	↑		
1	2	3	4	5	6	7	8	9	10	
B338		Route availability: (1) H24								
▲ MERSING DVOR/DME (VMR)		022318N 1035218E								
		171° 351°	38.1NM		FL 460 3500 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
Δ 20DME (20 DME PU)		014530N 1035812E								
		171° 351°	20.7NM		FL 460 3500 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
▲ TEKONG DVOR/DME (VTK)		012455N 1040120E							(3)	
		153° 333°	39.8NM		FL 460 3500 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
Δ IDMAS (40 DME VTK)		004900N 1041848E								
		153° 333°	56.1NM		FL 460 3500 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
FIRJ4 (WSJC/WIIZ FIR BDRY)		000124S 1044405E							(2)	
		152° 332°	17.4NM		FL 460 3500 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
▲ ANITO		001700S 1045200E								
Point/Segment Remarks:										
(2) Not a REP										
(3) Kuala Lumpur/Singapore FIR boundary approximately 1.2NM north of VTK.										

Route Designator {RNP Type}		[Route Usage Notes]							
	Significant Point Name	Significant Point Coordinates							Remarks
	{RNP Type}	Track MAG ↓ ↑	Dist NM	(COP)	Upper limit Lower limit	MNM FLT ALT	Lateral limits NM	FL series ↓ ↑	Controlling unit Frequency {Airspace class} Remarks
1	2	3	4	5	6	7	8	9	10
B469		Route availability: (1) H24							
▲ PEKAN DVOR/DME (VPK)	032259N 1032524E							(4)	
	335° 155°	14.9NM		FL 460 7500 FT ALT	8000 FT	10	Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
Δ PADLI	030918N 1033133E								
	335° 155°	17.1NM		FL 460 7500 FT ALT	8000 FT	10	Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
▲ 90DME (90 DME PU)	025341N 1033836E								
	335° 155°	11.0NM		FL 460 7500 FT ALT	8000 FT	10	Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
▲ BIKTA	024337N 1034308E								
	335° 155°	22.2NM		FL 460 7500 FT ALT	8000 FT	10	Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
▲ MERSING DVOR/DME (VMR) (58 DME PU)	022318N 1035218E								
	356° 176°	27.9NM		FL 460 3000 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150] (2)
Δ 30DME (30 DME PU)	015520N 1035405E								
	356° 176°	9.9NM		FL 460 2000 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150] (2)
Δ AKOMA (20 DME PU)	014522N 1035443E								
	356° 176°	10.0NM		FL 460 2000 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150] (2)
Δ 10DME (10 DME PU)	013523N 1035522E								
	356° 176°	10.0NM		FL 460 GND	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150] (2)
▲ PAPA UNIFORM DVOR/DME (PU)	012523.99N 1035559.74E							(5)	
	201° 021°	12.9NM		FL 460 3000 FT ALT	4000 FT		Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150] (3)
▲ SINJON DVOR/DME (SJ)	011321.34N 1035115.22E								
	157° 337°	30.2NM		FL 460 2000 FT ALT	4000 FT	10	Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
Δ BAVAL (30 DME SJ)	004518N 1040242E								
	159° 339°	61.7NM		FL 460 2000 FT ALT	5000 FT	10	Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
Δ FIRJ1 (WSJC/WIIZ FIR BDRY)	001230S 1042424E								
	148° 328°	19.4NM		FL 460 2000 FT ALT	5000 FT	10	Odd ⁽¹⁾	Even ⁽¹⁾	[Class A –ABV FL150 Class B –BLW FL150]
▲ SINGKEP NDB (NE)	002858.79S 1043433.57E								
Route Remarks: Flight Planning Flights overflying Singapore FIR to destinations in Jakarta FIR and beyond are to flight plan via B470 ANITO									
Singapore ACC FREQ: P123.7MHz, S127.3MHz									
Point/Segment Remarks: (2) Lateral Limits: The eastern and western airway sectors are enclosed by a line joining 022830N 1035504E 015100N 1041436E 013542N 1041442E 012550N 1040109E to a point 5NM west of PU DVOR/DME and northwards to a point 5NM west of VMR DVOR/DME. (3) Within the lateral limits of Paya Lebar CTR. (4) Eastbound Flight (report FL and flight condition over North CTR boundary). Westbound Flight (report FL and flight condition over VPK). (5) Kuala Lumpur/Singapore FIR BDRY APRX 0.5NM north of PU.									

ENR 3.4 HELICOPTER ROUTES

1 HELICOPTER OPERATIONS OVER SINGAPORE ISLAND

1.1 INTRODUCTION

- 1.1.1 The rapid building development in many parts of Singapore has made it necessary for helicopter operations to be more stringently regulated in order to enhance safety. All helicopter operators are required to adhere strictly to the following procedures.

1.2 RESTRICTED AREA -SINGLE-ENGINE HELICOPTER OPERATIONS RESTRICTED

- 1.2.1 Single-engine helicopters are restricted from operating over and within the city area enclosed in the triangle bounded by the following locations:

- South of Rochor River/Kallang River (011817N 1035205E);
- Shenton Way/Keppel Road (011623N 1035045E); and
- Scotts Road/Orchard Road (011818N 1034954E).

Part of this triangle lies within the existing Restricted Area WSR38 (see charts [ENR 3.4-5](#) and [ENR 3.4-7](#)).

1.3 ROUTEINGS

- 1.3.1 All helicopters must fly over water or use routes approved by the CAAS. There are two over-water and one over-land helicopter routes.
- 1.3.2 These helicopter routes are to be flown in VMC and in daylight hours. They could either be flown separately or in combination (see chart [ENR 3.4-5](#)).

1.4 OVER-WATER ROUTES

- 1.4.1 One of the two over-water routes is to the north of Singapore Island for helicopter flights into and out of Seletar Aerodrome. The other route is along the southern shore of Singapore. They are as described below.

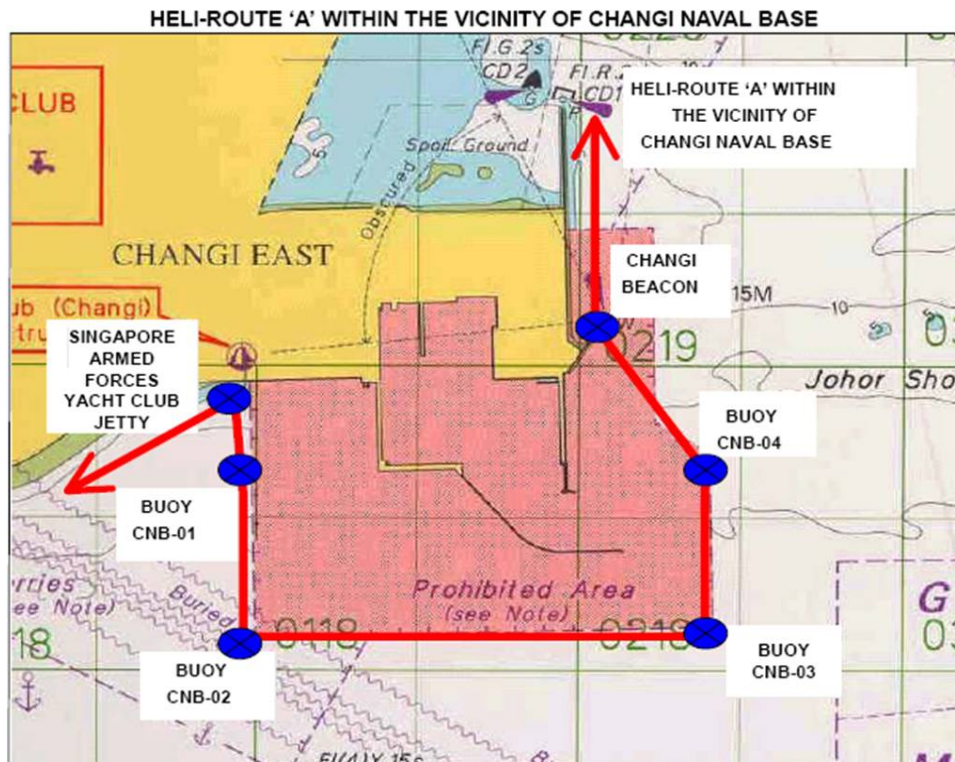
1.4.1.1 Heli-Route Alpha

This route covers the area from Johor Causeway eastbound over water along Selat Johor, following the coastline of Singapore Island via the northern contour of Pulau Ubin and along the eastern coastline, down to Bedok Jetty (011819N 1035632E) and vice versa. Within the vicinity of Changi Naval Base (CNB), transiting helicopters are to keep laterally clear by tracking along the following markers located about 1km from the Naval Base (see table below and diagram on page [ENR 3.4-2](#)).

	Markers Description	Coordinates	Remarks
a)	CHANGI BEACON	011909N 1040206E	White lights, 3 flashes every 15 sec
b)	BUOY CNB-04	011844N 1040224E	Yellow buoy, 3m above waterline Yellow lights, 1 flash every 2 sec
c)	BUOY CNB-03	011809N 1040224E	Yellow buoy, 3m above waterline Yellow lights, 1 flash every 2 sec
d)	BUOY CNB-02	011806N 1040100E	Yellow buoy, 3m above waterline Yellow lights, 1 flash every 2 sec
e)	BUOY CNB-01	011829N 1040059E	Yellow buoy, 3m above waterline Yellow lights, 1 flash every 2 sec
f)	Singapore Armed Forces Yacht Club Jetty	011851N 1040058E	Yellow lights, 3 lamp posts along jetty

Note: Pilots are to adhere strictly to the above transit routes.

Height: Minimum 200ft AMSL or as specified by the appropriate air traffic control authority.



1.4.1.2 Heli-Route Bravo

Originates from Bedok Jetty (011819N 1035632E), following the coastline of Singapore Island via the southern tip and contour of Sentosa towards Tuas and vice versa.

Height : Minimum 200ft AMSL or as specified by the appropriate air traffic control authority.

1.5 OVER-LAND ROUTE

1.5.1 The over-land transit route established to facilitate helicopter movements across the Singapore Island is as follows:

1.5.1.1 Heli-Route Charlie

←
Originates from Johor Causeway, southbound to Murnane Reservoir (012104N1034710E) along the eastern side of Bukit Timah Expressway. From Murnane Reservoir, southbound to PIE. Overfly PIE westbound to Anak Bukit Flyover (011956N1034552E). From Anak Bukit Flyover southbound to Pandan River (011920N1034507E). Fly over the Pandan River to Pandan Reservoir (011819N1034438E) and vice versa. To avoid overflying built-up areas and the Unmanned Aircraft Flying Area (UAFA) established at Pandan Reservoir (please refer to ENR 5), en-route by routing over open areas / nature reserve areas or as specified by the appropriate air traffic control authority. Height: Pilots to maintain minimum 1,500ft AMSL or as specified by the appropriate air traffic control authority. For southbound, commence descend after passing Pandan River (011920N1034507E). For northbound, to ascend to an altitude of 1,500ft AMSL prior to passing Pandan River (011920N1034507E).

1.6 CONDITIONS GOVERNING THE USE OF HELI-ROUTE CHARLIE

1.6.1 The over-land route is established based on evidence of ground features and is therefore subject to CAAS's review. Approval to use the route is given with the following conditions:

- a. The operator is fully satisfied that the route can be flown within the flight capability of the helicopter and that there are adequate suitable emergency landing sites along the route when in use. It remains the responsibility of the operator to ensure that his pilots are familiar with the route and the conditions governing them.
- b. The route is to be flown in VMC and in daylight hours.
- c. Prior ATC clearance from the appropriate controlling authority must be obtained.

1.7 FLIGHTS OPERATING OUTSIDE THE ESTABLISHED ROUTINGS

1.7.1 With the exception of an emergency situation, at all times, a helicopter shall not be operated within the Changi Control Zone or overland and outside of Heli-Route Charlie, unless prior permission has been obtained from the Director-General, CAAS.

- 1.7.2 While this requirement is not applicable for helicopter training flights operating within a designated aircraft training area (Light Aircraft Training Areas A, B or C), flight planning requirements per paragraphs 1.1.2 and 1.1.3 in page [ENR 1.10-1](#) remain applicable.
- 1.7.3 An application for permission can be submitted to caas_ats_ansp@caas.gov.sg. CAAS may ask for a flight inspection of the proposed route and / or areas of operation. The applicant shall provide the means and bear the cost of the flight inspection. Each case would be considered on its own merits and unless CAAS is satisfied that there are very good justifications, approval would normally not be given.

1.8 FLIGHT PLAN REQUIREMENTS

- 1.8.1 For Flight Plan requirements, refer to ENR 1.10 FLIGHT PLANNING.

2 PROCEDURES FOR THE CONTROL OF HELICOPTER OPERATIONS AT SINGAPORE CHANGI AIRPORT

2.1 APPROACH AND DEPARTURE PROCEDURES

- 2.1.1 Before entering the Changi Control Zone, a helicopter pilot is to advise Singapore Tower of his direction of approach, distance from the airport, altitude and type of helicopter. Singapore Tower will pass to the pilot the runway in use, QNH (QFE on request), surface wind and direction and if necessary the position of the helicopter alighting area:

Example: RWY 20R QNH 1008, Wind 020/7kt, light on the runway, Clear to make an approach or hold clear of the Control Zone until advised.

- 2.1.2 All lightings and take-offs are to be made in a north/south direction as determined by the prevailing wind. The approach from and the turn after take-off shall be made clear of all airport buildings, aprons and obstructions. Requests for approach into and take-offs from Singapore Changi Airport shall be made to Singapore Tower.
- 2.1.3 Helicopters intending to cross the Changi Control Zone must cross the runway immediately on receipt of clearance and cross at right angles to the runway. Helicopters would be cleared to cross the runway up to the time when a fixed wing aircraft has reached 4NM final approach and Singapore Tower has the landing aircraft in sight. If the weather condition is such that it is not expected that Singapore Tower can see the landing aircraft at 4NM final approach, crossing will only be cleared up to the time the landing aircraft reports leaving the SAMKO Holding Area or NYLON Holding Area inbound.
- 2.1.4 After take-off, the helicopter is to make a turn-off right or left as appropriate as soon as possible and proceed until well clear of the Changi Control Zone. On reaching the boundary of the zone, the pilot will report 'clearing your zone' and normal clearance will be given.

2.2 GROUND OR AIR TAXIING

- 2.2.1 After landing, the helicopter is required either to ground or air taxi via the taxiways into its allocated aircraft stand.
- 2.2.2 For take-offs, the helicopter will either ground or air taxi away from its aircraft stand and move out of the parking area via taxiways to the runway or helicopter area for take-off.

2.3 ALLOCATION OF AIRCRAFT STANDS

- 2.3.1 The allocation of aircraft stands for helicopters rests with the Apron Control Unit. In allocating aircraft stands the Duty Officer at the Apron Control Unit shall take into consideration the type of helicopter, stand occupancy time and the nature of the flight i.e. passenger carrying, training or for maintenance purposes.
- 2.3.2 Helicopter ferrying passengers will normally be allocated remote aircraft stands, i.e. stands without aerobridges.

2.4 RADIO FAILURE PROCEDURE

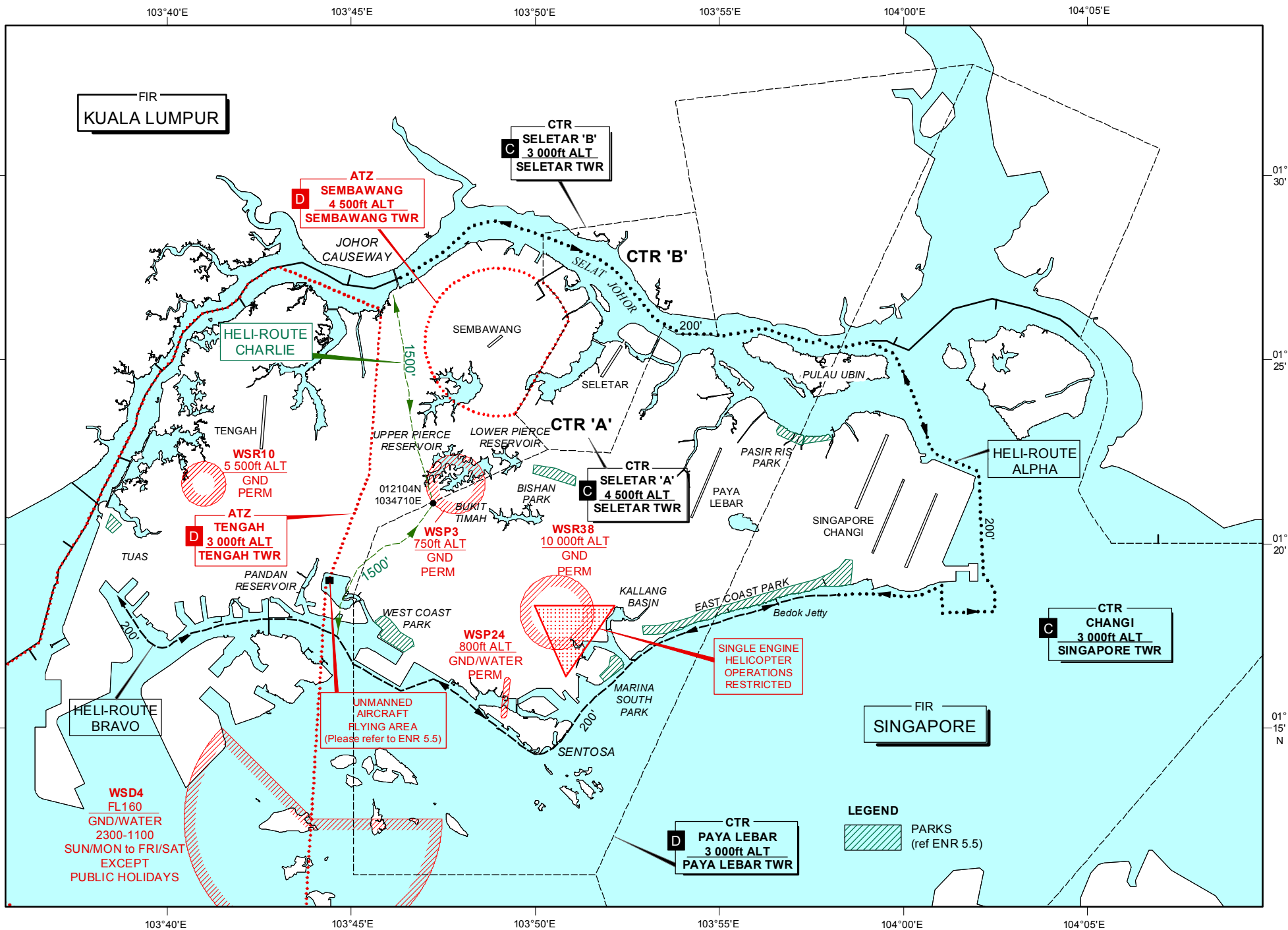
- 2.4.1 In the event of radio failure, the helicopter affected if on the ground shall not take-off
- 2.4.2 If radio failure occurs while in the air, alighting and taxiing clearances will be given by the Tower by the use of the appropriate light signals as described in page ENR 1.1-11, Appendix 'A'.

2.5 NIGHT OPERATIONS BY HELICOPTERS

- 2.5.1 Helicopters that are required to operate into and out of Singapore Changi Airport at night shall land on the runway and ground taxi into its aircraft stand via the lighted taxiways.

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HELICOPTER ROUTES IN VMC



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AERODROME CHART - ICAO

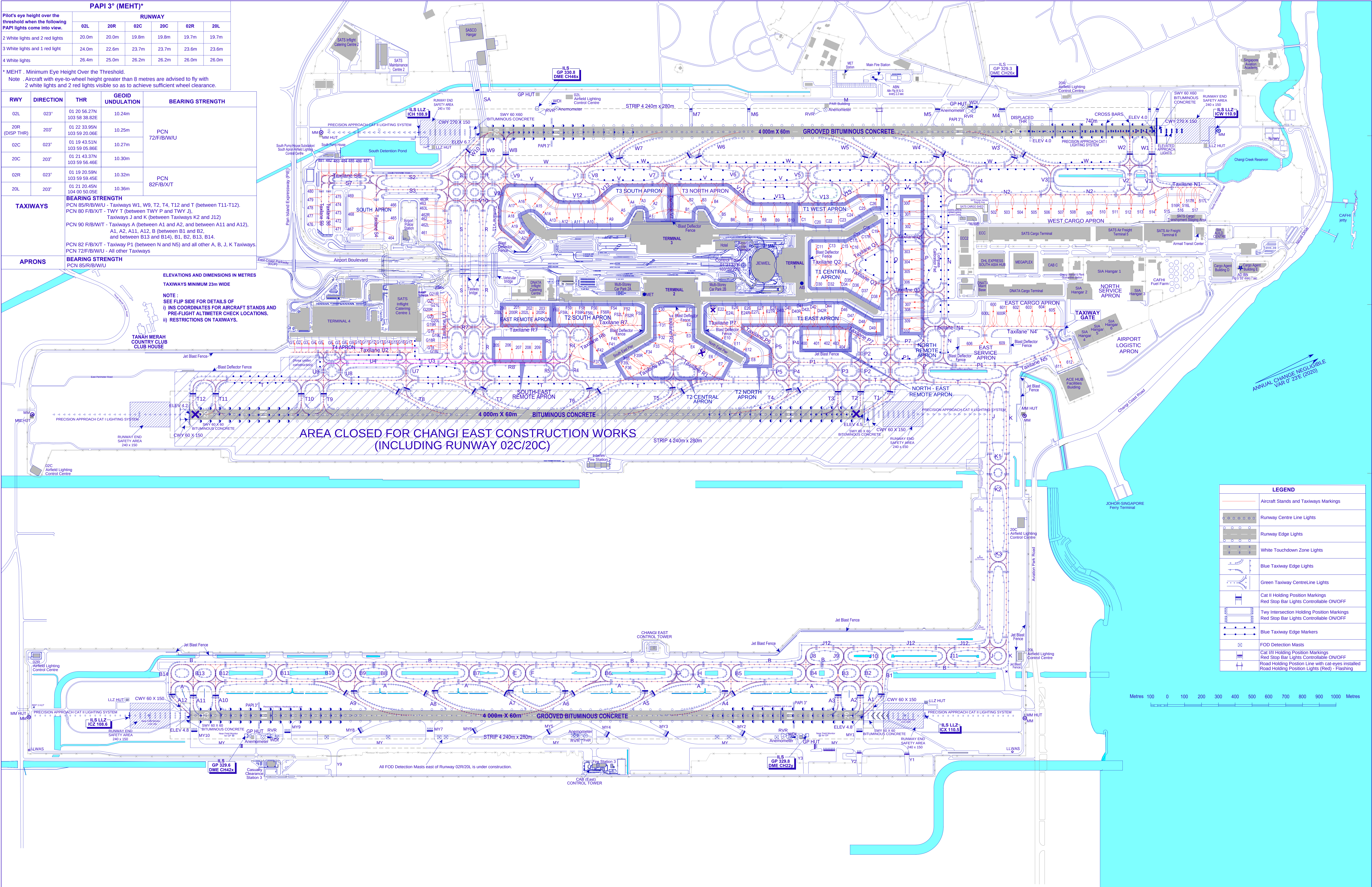
01° 21' 33"N
103° 59' 22"E

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

SINGAPORE/SINGAPORE CHANGI



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 55.87	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 01.48	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	E1	01 21 20.02	103 59 25.58	4.91m (16.11ft)
	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)
	F30	01 21 14.71	103 59 23.33	4.92m (16.14ft)
	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)
T2 SOUTH APRON	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)
	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)
EAST REMOTE APRON	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)
	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)
NORTH REMOTE APRON	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 47.91	103 59 18.88	4.74m (15.55ft)
	208	01 20 49.48	103 59 19.54	4.74m (15.55ft)
	209	01 20 51.06	103 59 20.21	4.75m (15.58ft)
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)
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)
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)

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

LOCATION	STAND NR	NORTH LAT	EAST LONG	ELEVATION
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)