STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
11000 ft
SPEED RESTRICTION MAX IAS 250 KT AT OR BELOW ALT 10000 FT UNLESS OTHERWISE AUTHORIZED BY ATC.

APP	:	119.1, 262.5
	:	120.3, 262.5
	:	121.7, 262.5
	:	122.35, 262.5
	:	124.35, 262.5
	:	125.2, 262.5
ARR	:	121.1
	:	126.3
TWR	:	118.2, 274.5
	:	119.0
ATIS	:	133.6, 278.6

BANGKOK/Suvarnabhumi INTL (VTBS)
RNAV RWY19L

BATOK1J BONVO1J GORSI1J
HHN1J KASNI1J KIGOB1J
PASTO1J REGOS1J
RYN1J SABIS2J UKERA1J

BATOK1J, GORSI1J, RYN1J
INITIAL CLIMB CLEARANCE 6000 FT OR AS DIRECTED BY ATC.

BONVO1J, HHN1J, KASNI1J, KIGOB1J, PASTO1J, REGOS1J, SABIS2J, UKERA1J
INITIAL CLIMB CLEARANCE 9000 FT OR AS DIRECTED BY ATC.

BONVO1J, PASTO1J
REQUIRE MINIMUM CLIMB GRADIENT OF 292 FT PER NM (4.8%) UNTIL PASSING ALT 7000 FOR AIRSPACE RESTRICTIONS ONLY.

GS (KT)	75	100	150	200	250	300
Rate of Climb (ft/min)	365	486	729	972	1215	1458

VT D33 Area1 FL 280 GND
VT D33 Area 2 UNL GND
VT D31 ALT 5 500 ft GND
VT D17 Area2 ALT 9 000 ft GND
VT D17 Area1 ALT 6 000 ft GND
VT D16 Area 2 UNL GND
VT D20 ALT 11 000 ft GND

VTBS
(194.41° T) 195° 3.5 NM
56
LOUIS MAX IAS 220 KT
BS907 MAX IAS 240 KT
BS901
BS902 6000
Track 240°(239.15° T) Distance 11.0 NM
BS903
Track 087°(086.54° T) Distance 5.8 NM
BS908 9000
SAMBA
Track 194°(193.79° T) Distance 5.9 NM
Track 181°(180.32° T) Distance 8.1 NM
BS904 9000
BS905 9000
Track 149°(148.18° T) Distance 8.1 NM
①

Track 296°(295.68° T) Distance 9.2 NM

CLOSE IN OBSTACLES
RWY19L - Terrain with Vegetation 51 FT HGT. 7.4 m from departure end

PASTO1J
L301
(272.00° T) 273° 44.2 NM
PASTO
JROCK
CONGA
INTRO
BS911 10000
VTBD
(295.72° T) 296° 11.7 NM
Track 064°(063.29° T) Distance 30.2 NM
BATOK1J
BATOK
G474
(251.95° T) 253° 33.8 NM
BONVO1J
BONVO
M502
Track 274°(273.24° T) Distance 4.6 NM
BS910 9000 7000
Track 002°(001.48° T) Distance 7.7 NM
VTBS
56
Track 087°(086.56° T) Distance 9.2 NM
(063.92° T) 065° 24.8 NM
NITRO
AKATO
002° 8.9 NM (001.47° T)
BS909 MAX IAS 240 KT
①
MEZZO
(092.07° T) 093° 17.7 NM
GORSI1J
GORSI
R468
Track 285°(284.18° T) Distance 5.8 NM
BS908 9000
SAMBA
(239.10° T) 240° 21.5 NM
SALMA FL 140
BS904 9000
BS905 9000
Track 149°(148.17° T) Distance 11.0 NM
SABIS2J
(180.27° T) 181° 14.4 NM
Track 181°(180.32° T) Distance 10.0 NM
KASNI1J
KIGOB1J
KIGOB
(140.60° T) 141° 57.6 NM
RYN1J
KASNI
SABIS
RYN
R201/M904 Y11
N891
NOT TO SCALE
(212.74° T) 213° 25.9 NM
HHN1J
Y8
HHN
(189.89° T) 191° 58.5 NM
Track 186°(185.04° T) Distance 64.7 NM
M757
BUT
VANKO
UKERA1J
W31
Y8
UKERA
REGOS1J
G458
REGOS
A464/W19
M751

ELEV, ALT IN FEET
DIST IN NM
BRG ARE MAG
VAR 0° 39′ W (2011)
ANNUAL CHANGE 1′ W

MSA 25 NM ARP
132° 1600
2300
314° 3900
002°

NOTE:
SEE BACK PAGE FOR RADIO COMMUNICATION FAILURE

Gulf of Thailand

REMARKS:
1. RNAV1 IS REQUIRED.
2. GNSS or DME/DME/IRU IS REQUIRED.
3. RADAR IS REQUIRED.
4. FOR NON-RNAV EQUIPPED ACFT, PILOT SHALL INFORM ATC IN ORDER TO GET RADAR GUIDANCE.
5. PILOT SHOULD PLAN FOR POSSIBLE CLIMB AS DEPICTED ON SID, ACTUAL CLIMB CLEARANCE WILL BE GIVEN BY ATC.
6. IF UNABLE TO COMPLY WITH FLIGHT RESTRICTIONS, ADVISE ATC WHEN ACFT COMMENCES TO PUSHBACK or TAXI TO THE HOLDING POINT FOR DEPARTURE.

15° 00′ N
14° 30′ N
14° 00′ N
13° 30′ N
13° 00′ N
12° 30′ N
099° 30′ E
100° 00′ E
100° 30′ E
101° 00′ E
101° 30′ E

RADIO COMMUNICATION FAILURE

1	SET THE AIRCRAFT TRANSPONDER TO MODE A/C CODE 7600
2	COMPLY WITH THE LAST ACKNOWLEDGED CLEARANCE ***UP TO THE NEXT REPORTING POINT IN THE SID, THEN CLIMB TO THE FLIGHT PLANNED CRUISING LEVEL*** IN ACCORDANCE WITH THE PUBLISHED ALL SPEED AND ALTITUDE RESTRICTIONS OF THE RELEVANT SID PROCEDURE. THEREAFTER COMPLY WITH THE FLIGHT PLANNED ROUTING AND LEVEL.
3	WHEN **A DEPARTING AIRCRAFT IS BEING RADAR VECTORED**, IF NO TRANSMISSIONS ARE HEARD ON THE FREQUENCY IN USE FOR A PERIOD OF ***TWO MINUTES***, A RADIO FREQUENCY CHECK IS TO BE MADE. IF THE RADIO FREQUENCY CHECK INDICATES A RADIO COMMUNICATION FAILURE. THE PILOT SHALL MAINTAIN THE LAST ASSIGNED HEADING, SPEED AND LEVEL, OR MINIMUM FLIGHT ALTITUDE IF HIGHER. AFTER PERIOD OF ***TWO MINUTES***, THE FLIGHT SHALL REJOIN THE MOST DIRECT MANNER POSSIBLE TO REJOIN THE SID PROCEDURE APPROPRIATE TO ITS ATS ROUTE OR THE FLIGHT PLAN ROUTE NO LATER THAN THE NEXT SIGNIFICANT POINT. THEREAFTER COMPLY WITH THE FLIGHT PLANNED ROUTING AND LEVEL.
4	FOR MORE INFORMATION OR OTHER CASES. REFER TO AIP VTBS AD 2.22, RADIO COMMUNICATION FAILURE.

ROUTE ABBREVIATED DESCRIPTIONS

SID	ROUTING	AIRWAYS
BATOK1J	RWY19L(DER) – LOUIS[M195; K220-; L] → BS901 – BS902[A6000-] – MEZZO[L] – NITRO – BATOK	G474
BONVO1J	RWY19L(DER) – LOUIS[M195; K220-; R] → BS907[K240-] – BS909[K240-; R] – BS910[A7000+; A9000-] – BS911[A10000+; L] – INTRO[L] – CONGA[L] – BONVO	M502
GORSI1J	RWY19L(DER) – LOUIS[M195; K220-; L] → BS901 – BS902[A6000-] – MEZZO[R] – GORSI	R468
HHN1J	RWY19L(DER) – LOUIS[M195; K220-; R] → BS907[K240-] – BS908[A9000-] – SALMA[F140-; L] – SABIS[R] - HHN	W31
KASNI1J	RWY19L(DER) – LOUIS[M195; K220-] → BS903 – SAMBA[L] – BS905[A9000-] – KASNI	M757
KIGOB1J	RWY19L(DER) – LOUIS[M195; K220-] → BS903 – SAMBA[L] – BS904[A9000-] – KIGOB	R201/M904/ Y11
PASTO1J	RWY19L(DER) – LOUIS[M195; K220-; R] → BS907[K240-] – BS909[K240-; R] – BS910[A7000+; A9000-] – BS911[A10000+; L] – INTRO – JROCK[L] – PASTO	L301
REGOS1J	RWY19L(DER) – LOUIS[M195; K220-] → BS903 – SAMBA[L] – BS905[A9000-] – KASNI[R] – REGOS	A464/M751/ W19
RYN1J	RWY19L(DER) – LOUIS[M195; K220-; L] → BS901 – BS902[A6000-] – MEZZO[R] – RYN	N891
SABIS2J	RWY19L(DER) – LOUIS[M195; K220-; R] → BS907[K240-] – BS908[A9000-] – SALMA[F140-; L] – SABIS	Y8
UKERA1J	RWY19L(DER) – LOUIS[M195; K220-; R] → BS907[K240-] – BS908[A9000-] – SALMA[F140-; L] – SABIS[R] - UKERA	G458

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

BANGKOK/Suvarnabhumi INTL (VTBS)
RNAV RWY19L

BATOK1J BONVO1J GORSI1J
HHN1J KASNI1J KIGOB1J
PASTO1J REGOS1J
RYN1J SABIS2J UKERA1J

TABULAR DESCRIPTION

Serial Number	Path Descriptor	Waypoint Identifier	WGS-84 Coordinates		Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	Navigation Specification
			Latitude	Longtitude								
001	-	DER RWY19L	13 39 24.11 N	100 45 06.59 E	-	-	0.7	-	-	-	-	RNAV1
002	CF	LOUIS	13 35 59.82 N	100 44 12.92 E	Y	195°(194.41°)	0.7	3.5	L, R	-	220	RNAV1
003	DF	BS907	13 31 14.42 N	100 40 03.93 E	-	-	0.7	-	-	-	240	RNAV1
004	TF	BS909	13 32 40.09 N	100 34 16.99 E	-	285°(284.18°)	0.7	5.8	R	-	240	RNAV1
005	TF	BS910	13 41 36.08 N	100 34 31.08 E	-	002°(001.47°)	0.7	8.9	-	7000+; 9000-	-	RNAV1
006	TF	BS911	13 49 22.54 N	100 34 43.38 E	-	002°(001.48°)	0.7	7.7	L	10000+	-	RNAV1
007	TF	INTRO	13 54 28.98 N	100 23 51.74 E	-	296°(295.72°)	0.7	11.7	L	-	-	RNAV1
008	TF	JROCK	13 58 28.40 N	100 15 21.61 E	-	296°(295.68°)	0.7	9.2	L	-	-	RNAV1
009	TF	PASTO	14 00 04.50 N	099 30 06.94 E	-	273°(272.00°)	0.7	44.2	-	-	-	RNAV1
010	TF	CONGA	13 54 44.52 N	100 19 09.98 E	-	274°(273.24°)	0.7	4.6	L	-	-	RNAV1
011	TF	BONVO	13 44 10.47 N	099 46 06.72 E	-	253°(251.95°)	0.7	33.8	-	-	-	RNAV1
012	TF	BS908	13 25 34.36 N	100 30 22.74 E	-	240°(239.15°)	0.7	11.0	-	9000-	-	RNAV1
013	TF	SALMA	13 14 28.89 N	100 11 28.72 E	-	240°(239.10°)	0.7	21.5	L	FL140-	-	RNAV1
014	TF	SABIS	12 59 58.53 N	100 11 24.53 E	-	181°(180.27°)	0.7	14.4	R	-	-	RNAV1
015	TF	UKERA	12 02 07.25 N	100 01 09.59 E	-	191°(189.89°)	0.7	58.5	-	-	-	RNAV1
016	TF	HHN	12 38 04.04 N	099 57 04.23 E	-	213°(212.74°)	0.7	25.9	-	-	-	RNAV1
017	DF	BS903	13 28 47.51 N	100 42 14.54 E	-	-	0.7	-	-	-	-	RNAV1
018	TF	SAMBA	13 23 02.66 N	100 40 48.12 E	-	194°(193.79°)	0.7	5.9	L	-	-	RNAV1
019	TF	BS905	13 14 54.79 N	100 40 45.31 E	-	181°(180.32°)	0.7	8.1	-	9000-	-	RNAV1
020	TF	KASNI	13 04 50.17 N	100 40 41.88 E	-	181°(180.32°)	0.7	10.0	R	-	-	RNAV1
021	TF	REGOS	12 00 06.50 N	100 34 54.30 E	-	186°(185.04°)	0.7	64.7	-	-	-	RNAV1
022	TF	BS904	13 16 08.08 N	100 45 10.75 E	-	149°(148.18°)	0.7	8.1	-	9000-	-	RNAV1
023	TF	KIGOB	13 06 46.46 N	100 51 06.33 E	-	149°(148.17°)	0.7	11.0	-	-	-	RNAV1
024	DF	BS901	13 30 39.63 N	100 47 52.93 E	-	-	0.7	-	-	-	-	RNAV1
025	TF	BS902	13 31 00.74 N	100 53 51.07 E	-	087°(086.54°)	0.7	5.8	-	6000-	-	RNAV1
026	TF	MEZZO	13 31 33.78 N	101 03 16.41 E	-	087°(086.56°)	0.7	9.2	L, R	-	-	RNAV1
027	TF	RYN	12 46 48.30 N	101 40 41.70 E	-	141°(140.60°)	0.7	57.6	-	-	-	RNAV1
028	TF	GORSI	13 30 54.64 N	101 21 28.05 E	-	093°(092.07°)	0.7	17.7	-	-	-	RNAV1
029	TF	NITRO	13 42 28.69 N	101 26 07.28 E	-	065°(063.92°)	0.7	24.8	-	-	-	RNAV1
030	TF	BATOK	13 56 06.00 N	101 53 53.60 E	-	064°(063.29°)	0.7	30.2	-	-	-	RNAV1