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AIRAC AIP SUP 012/2025

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LQSA – Sarajevo International Airport
Trial PBN instrument flight procedures

With this AIRAC AIP SUP a trial PBN satellite based RNAV SIDs RWY 29 are available for testing purpose only at Sarajevo Airport. The satellite instrument flight procedure is GNSS based and contain SID flight procedures for RWY 29.

Trial PBN procedures are not intended for planning of operations. They are primarily published for flight validation and flyability check purpose with the aim of collecting and developing safety argumentation for PBN implementation in Bosnia and Herzegovina.


STANDARD DEPARTURE CHART — INSTRUMENT (SID) — ICAO
TRANSITION ALTITUDE 10 000 ft
AD ELEV: 1705 ft
APP 136.450
119.775
TWR 118.250
ATIS 124.125
SARAJEVO / SARAJEVO (LQSA)
RNAV SID RWY 29
BOSNA 1J, GACMO 1J, MITNO 1J
OSLUD 1J, SOMUN 1J, VRANA 1J
RNAV 1
GNSS only
ALT IN FEET
DIST IN NM
BRG ARE MAG
VAR 5°E (20)
17° 30' 00" E
18° 00' 00" E
18° 30' 00" E
19° 00' 00" E
44° 30' 00" N
44° 00' 00" N
43° 30' 00" N
43° 00' 00" N
9100
MSA 25 NM
ARP
BOSNA
9000
BOSNA 1J
27.7
306°
LQD12
4500 AMSL
GND
LQD36
5600 AMSL
GND
LQD28
9500 AMSL
GND
LQTSA4
4800 AMSL
GND
TIMID
Max IAS 250 kt
LQTSA5
4000 AMSL
GND
LQD46
2000 AMSL
GND
CTR SARAJEVO
D
6500 AMSL
GND
7107
SA723
Max IAS 230 kt
6.9
350°
SA720
3239
2950
DF
SA721
Max IAS 250 kt
254°
9.0
254°
254°
7.5
5726
VRANA
10000
VRANA 1J
14.9
SA722
10000
LQD44
5500 AMSL
GND
LQD6
5500 AMSL
GND
2100
4.9
292°
2224
2097
LQD8
4800 AMSL
GND
LQR20
6500 AMSL
GND
KEB
Max IAS 210 kt
5165
030°
6.0
SA724
Max IAS 250 kt
086°
12.6
SA726
Max IAS 250 kt
108°
MITNO 1J
16.0
SA728
108°
7.7
MITNO
10000
171°
185°
27.2
33.4
OSLUD 1J
OSLUD
10000
LQD39
6500 AMSL
GND
LQD43
8500 AMSL
GND
LQD23
7000 AMSL
GND
LQTSA1
7000 AMSL
GND
LQD31
3500 AMSL
GND
LQD40
FL310
GND
LQD33
7000 AMSL
GND
LQD41
9500 AMSL
GND
SA729
10000
185°
GACMO 1J
14.5
GACMO
10000
SOMUN
10000
SOMUN 1J
21.8
030°
SA725
10000
21.0
TMA
SARAJEVO
D
FL205
9500 AMSL
TMA
SARAJEVO
E
9500 AMSL
1000 AGL
8500'
7000'
5500'
4000'
2500'
CONTOUR
INTERVALS
Scale 1:875 000
0 10 20 30 40 KM
0 10 20 NM
CHANGE: Creatioon v 0.3

STANDARD DEPARTURE CHART — INSTRUMENT (SID) TEXT — ICAO

SARAJEVO/Sarajevo (LQSA)
RNAV RWY 29
BOSNA1J GACMO1J MITNO1J OSLUD1J SOMUN1J VRANA1J

DEPARTURE TEXTS

BOSNA 1J

Climb (1) to ***2100*** on course **292°M**, then turn **right** direct to **SA723** (Max IAS **230kt**), then to **TIMID** (Max IAS **250kt**), then to **BOSNA** at or above ***9000***.

(1) **PDG: 5.6 %** up to ***3200***, then **3.3 %**.

GACMO 1J

Climb (1) to ***2100*** on course **292°M**, then turn **right** direct to **KEB** (Max IAS **210kt**), then to **SA726** (Max IAS **250kt**), then to **SA729** at or above ***10000***, then to **GACMO**.

(1) **PDG: 7.0 %** up to ***5600***, then **3.3 %**.

MITNO 1J

Climb (1) to ***2100*** on course **292°M**, then turn **right** direct to **KEB** (Max IAS **210kt**), then to **SA726** (Max IAS **250kt**), then to **SA728**, then to **MITNO** at or above ***10000***.

(1) **PDG: 7.0 %** up to ***5600***, then **3.3 %**.

OSLUD 1J

Climb (1) to ***2100*** on course **292°M**, then turn **right** direct to **KEB** (Max IAS **210kt**), then to **SA726** (Max IAS **250kt**), then to **OSLUD** at or above ***10000***.

(1) **PDG: 7.0 %** up to ***5600***, then **3.3 %**.

SOMUN 1J

Climb (1) to ***2100*** on course **292°M**, then turn **right** direct to **KEB** (Max IAS **210kt**), then to **SA724** (Max IAS **250kt**), then to **SA725** at or above ***10000***, then to **SOMUN**.

(1) **PDG: 7.0 %** up to ***5600***, then **3.3 %**.

VRANA 1J

Climb (1) to ***2100*** on course **292°M**, then to **SA720**.
At SA720, turn **left** to **SA721** (Max IAS **250kt**), then to **SA722** at or above ***10000*** (2), then to **VRANA**.

(1) **PDG: 5.2 %** up to ***6100***, then **3.3 %**.
(2) **ATS climb gradient: 6.8 %** up to ***10000***

LQSA RNAV SID RWY 29

Proposed tabular description for navigation database coding

Seq N°	PT	¥/P ID	OverFl g	TD	RMD ¥HF	THET A (°) magne tic	RHO ¥al	RHO uom	CRS ¥al (°)	CRS Type	DIST val NM	ALT DESC	ALT ONE FT	ALT TWO FT	SPD LMT KT	NAV PERF	Phase	Transi tion Identifi er	Runwa g Directi on	Magnetic CRS val(°)
BOSNA 1J																				
10	CA								292.371	MT		+	2100			1.000 NM	5	RW29	29	NotApplicable
20	DF	SA723	N												230	1.000 NM	5	RW29	29	
30	TF	TIMID	N						354.569	TT	6.862				250	1.000 NM	5	RW29	29	349.569
40	TF	BOSNA	N						311.403	TT	27.687	+	9000			1.000 NM	5	RW29	29	306.403
GACMO 1J																				
10	CA								292.369	MT		+	2100			1.000 NM	5	RW29	29	NotApplicable
20	DF	KEB	N												210	1.000 NM	5	RW29	29	
30	TF	SA726	N						091.028	TT	12.598				250	1.000 NM	5	RW29	29	086.028
40	TF	SA729	N						189.628	TT	33.389	+	10000			1.000 NM	5	RW29	29	184.628
50	TF	GACMO	N						189.540	TT	14.486	+	10000			1.000 NM	5	RW29	29	184.540
MITNO 1J																				
10	CA								292.369	MT		+	2100			1.000 NM	5	RW29	29	NotApplicable
20	DF	KEB	N												210	1.000 NM	5	RW29	29	
30	TF	SA726	N						091.028	TT	12.598				250	1.000 NM	5	RW29	29	086.028
40	TF	SA728	N						113.146	TT	16.000					1.000 NM	5	RW29	29	108.146
50	TF	MITNO	N						113.381	TT	7.702	+	10000			1.000 NM	5	RW29	29	108.381
OSLUD 1J																				
10	CA								292.369	MT		+	2100			1.000 NM	5	RW29	29	NotApplicable
20	DF	KEB	N												210	1.000 NM	5	RW29	29	
30	TF	SA726	N						091.028	TT	12.598				250	1.000 NM	5	RW29	29	086.028
40	TF	OSLUD	N						175.685	TT	27.224	+	10000			1.000 NM	5	RW29	29	170.685
SOMUN 1J																				
10	CA								292.369	MT		+	2100			1.000 NM	5	RW29	29	NotApplicable
20	DF	KEB	N												210	1.000 NM	5	RW29	29	
30	TF	SA724	N						035.168	TT	5.999				250	1.000 NM	5	RW29	29	030.168
40	TF	SA725	N						035.226	TT	20.958	+	10000			1.000 NM	5	RW29	29	030.226
50	TF	SOMUN	N						035.421	TT	21.807	+	10000			1.000 NM	5	RW29	29	030.421
¥RANA 1J																				
10	CA								292.369	MT		+	2100			1.000 NM	5	RW29	29	NotApplicable
20	CF	SA720	Y		KEB	237.506	9.999	MM	292.369	MT	4.904					1.000 NM	5	RW29	29	NotApplicable
30	TF	SA721	N						258.869	TT	9.000				250	1.000 NM	5	RW29	29	253.869
40	TF	SA722	N						258.728	TT	7.501	+	10000			1.000 NM	5	RW29	29	253.728
50	TF	¥RANA	N						258.611	TT	14.885	+	10000			1.000 NM	5	RW29	29	253.611

ADHP ICAO Identifier	WP ID	WP ICAO Code	WP Type	Latitude	Longitude
LQ	BOSNA		ICAO	44°22'14.0000"N	017°45'35.0000"E
LQ	EMKES		ICAO	43°49'00.8300"N	017°51'11.7600"E
LQ	GACMO		ICAO	43°08'34.0000"N	018°33'29.0000"E
LQ	KEB		ICAO	43°56'01.9100"N	018°26'59.3800"E
LQ	MITNO		ICAO	43°46'24.0000"N	019°14'30.0000"E
LQ	OSLUD		ICAO	43°28'38.0000"N	018°47'14.0000"E
LQ	PODOB		ICAO	43°31'54.0000"N	019°08'40.0000"E
LQ	RFC20		ADHP	43°33'20.7810"N	018°30'45.5990"E
LQ	RFC21		ADHP	43°42'39.4330"N	018°28'15.6590"E
LQ	RFC22		ADHP	43°46'40.3500"N	018°21'21.3090"E
LQ	RFC23		ADHP	43°42'24.3650"N	018°27'53.9710"E
LQ	RFC24		ADHP	43°55'10.1740"N	018°21'31.3390"E
LQ	RFC25		ADHP	43°42'33.9590"N	018°45'52.4460"E
LQ	RW29		ADHP	43°49'16.5900"N	018°20'25.0800"E
LQ	SA504		ADHP	43°48'26.9150"N	018°22'37.5440"E
LQ	SA506		ADHP	43°46'29.0480"N	018°24'06.2140"E
LQ	SA508		ADHP	43°42'58.5490"N	018°23'38.6770"E
LQ	SA510		ADHP	43°40'19.8040"N	018°24'54.8580"E
LQ	SA514		ADHP	43°39'28.9060"N	018°28'49.4660"E
LQ	SA516		ADHP	43°39'23.8680"N	018°33'08.6470"E
LQ	SA520		ADHP	43°38'50.7780"N	018°35'47.5290"E
LQ	SA522		ADHP	43°37'11.1350"N	018°43'43.8900"E
LQ	SA524		ADHP	43°22'13.9510"N	018°38'21.3670"E
LQ	SA526		ADHP	43°44'40.2020"N	018°50'12.9760"E
LQ	SA530		ADHP	43°50'11.7330"N	018°17'57.8400"E
LQ	SA532		ADHP	43°59'44.2140"N	018°26'00.5410"E
LQ	SA534		ADHP	43°47'06.7550"N	018°50'23.0790"E
LQ	SA720		ADHP	43°51'24.2550"N	018°14'43.8190"E
LQ	SA721		ADHP	43°49'39.3460"N	018°02'31.8760"E
LQ	SA722		ADHP	43°48'10.9150"N	017°52'22.3900"E
LQ	SA723		ADHP	43°57'09.0730"N	018°15'26.1940"E
LQ	SA724		ADHP	44°00'56.0910"N	018°31'46.7020"E
LQ	SA725		ADHP	44°18'02.1310"N	018°48'36.6980"E
LQ	SA726		ADHP	43°55'47.0200"N	018°44'25.2130"E
LQ	SA728		ADHP	43°49'27.8200"N	019°04'44.5770"E
LQ	SA729		ADHP	43°22'51.3640"N	018°36'45.7620"E
LQ	SOMUN		ICAO	44°35'47.0000"N	019°06'18.0000"E
LQ	TIMID		ICAO	44°03'58.9800"N	018°14'32.1400"E
LQ	VEBAR		ICAO	44°08'12.0000"N	019°10'49.0000"E
LQ	VRANA		ICAO	43°45'13.0000"N	017°32'16.0000"E

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