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AIRAC AIP SUP 006/2024

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LQTZ – INTERNATIONAL AIRPORT TUZLA – TRIAL PBN INSTRUMENT FLIGHT PROCEDURES

With this AIP SUP a trial PBN satellite based procedures RNP 1 SID RWY 27 are available for testing purposes at Tuzla Airport. The satellite instrument flight procedures are GNSS based and contain SID flight procedures for RWY 27.

Trial PBN procedures are not intended for planning of operations.

They are primary published for flight validation and flyability check purpose with the aim of collecting and developing safety argumentation for PBN implementation in Bosnia and Herzegovina.

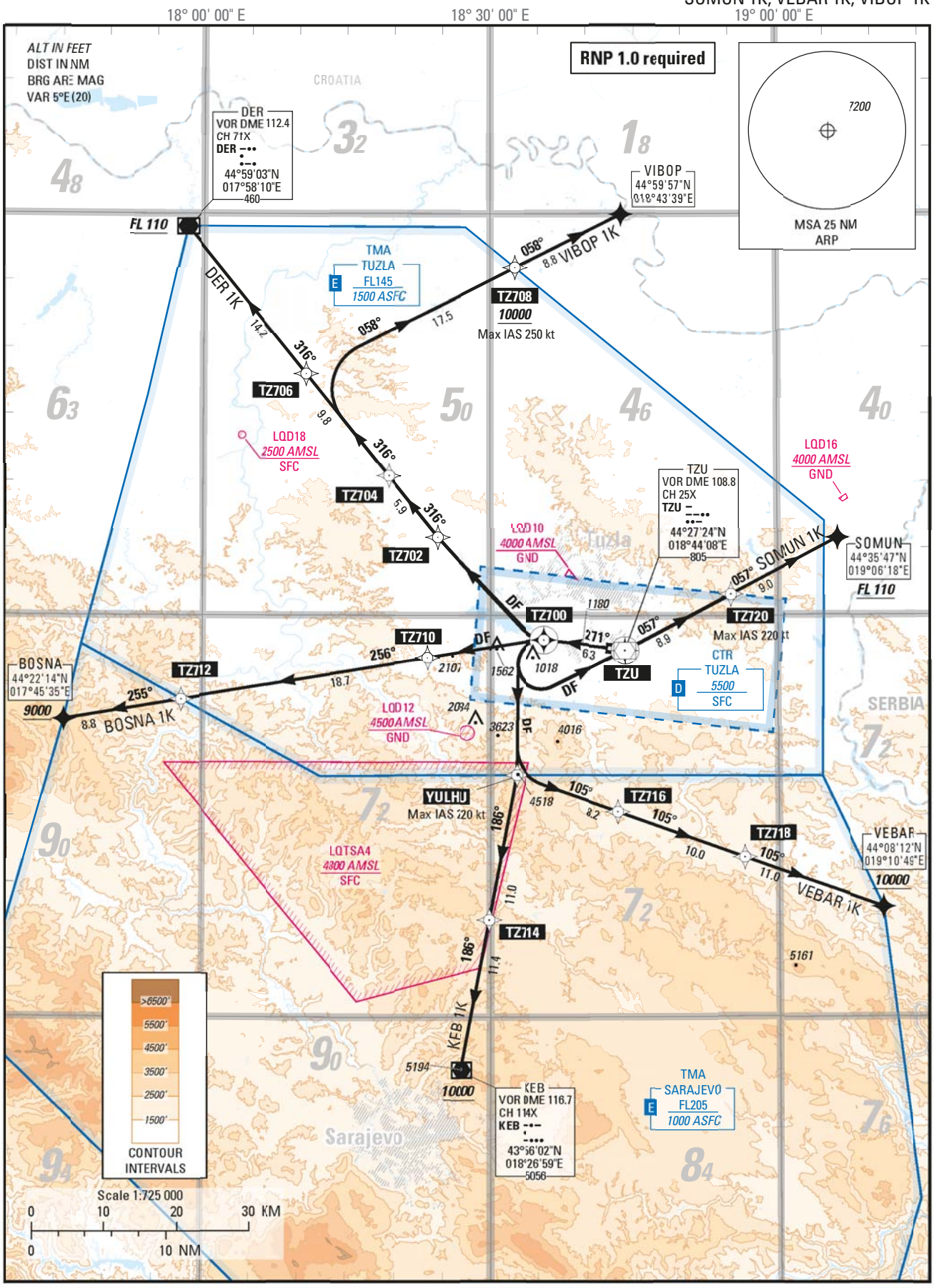
STANDARD DEPARTURE CHART — INSTRUMENT (SID) — ICAO CAT A B C D

TRANSITION ALTITUDE *10 000* ft

AD ELEV: *779*

APP 120.350
TWR 132.925

TUZLA / TUZLA (LQTZ)
RNP SID RWY 27
BOSNA 1K, DER 1K, KEB 1K
SOMUN 1K, VEBAR 1K, VIBOP 1K



STANDARD DEPARTURE CHART-INSTRUMENT (SID) TEXT - ICAO

TUZLA / TUZLA (LQTZ)
RNP SID RWY 27
BOSNA 1K, DER 1K, KEB 1K, SOMUN 1K, VEBAR 1K, VIBOP 1K

DEPARTURE TEXTS

For all departures:
Disregarded close-in obstacles:

Tree (*841ft*) 643m from DER and 84m left RWY axis
Tree (*841ft*) 658m from DER and 180m left RWY axis
Tree (*847ft*) 711m from DER and 146m left RWY axis

BOSNA 1K SID

Climb to ***1180*** on course **271°M** then to **TZ700**. At **TZ700**, turn **left** direct to **TZ710**, then to **TZ712**, then to **BOSNA** at or above ***9000***.

DER 1K SID

Climb to ***1180*** on course **271°M** then to **TZ700**. At **TZ700**, turn **right** direct to **TZ702**, then to **TZ704**, then to **TZ706**, then to **DER** at or above **FL110** (1).

(1) **ATS climb gradient**: **4.0%** up to the EN-ROUTE safety altitude. Advice ATC if unable to ensure the ATS climb gradient.

KEB 1K SID

Climb (1) to ***1180*** on course **271°M** then to **TZ700**. At **TZ700**, turn **left** direct to **YULHU** (Max IAS **220kt**), then to **TZ714**, then to **KEB** at or above ***10000***.

(1) **PDG 5.5%** up to ***5400*** then **3.3%**.

SOMUN 1K SID

Climb (1) to ***1180*** on course **271°M** then to **TZ700**. At **TZ700**, turn **left** direct to **TZU**, then to **TZ720** (Max IAS **220kt**), then to **SOMUN** at or above **FL110** (2).

(1) **PDG 5.9%** up to ***4600*** then **3.3%.**

(2) **ATS climb gradient: 5.9%** up to ***8500*** due to airspace structure. Advise ATC if unable to ensure the ATS climb gradient.

VEBAR 1K SID

Climb (1) to ***1180*** on course **271°M** then to **TZ700**. At **TZ700**, turn **left** direct to **YULHU** (Max IAS **220kt**), then to **TZ716**, then to **TZ718**, then to **VEBAR** at or above ***10000***.

(1)**PDG 5.5%** up to ***5100*** then **3.3%.**

VIBOP 1K SID

Climb to ***1180*** on course **271°M** then to **TZ700**. At **TZ700**, turn **right** direct to **TZ702**, then to **TZ704**, then to **TZ706**, then to **TZ708** (Max IAS **250kt**) at or above ***10000*** then to **VIBOP**.

BOSNA 1K

Seq N°	PT	W/P ID	OverFly	Fix role	TD	RMD VHF	THETA (°) magnetic	RHO Val	RHO uom	CRS Val (°)	CRS Type	TIME val	TIME uom	DIST val	DIST uom	ALT DESC	ALT ONE	ALT TWO	SPD LMT	VRT ANG (°)	NAV PERF	RADIUS val	RADIUS uom	ARC CTR ID	Phase	Transition Identifier	Runway Direction	Magnetic CRS val(°)
10	CA									271.274	MT					+	1180.00 FT [ALT]				1.000 NM				5	RW27	27	NotApplicable
20	CF	TZ700	Y			TZU	271.879	6.138	NM	271.274	MT			6.344	NM						1.000 NM				5	RW27	27	NotApplicable
30	DF	TZ710	N																		1.000 NM				5	RW27	27	
40	TF	TZ712	N							260.634	TT			18.728	NM						1.000 NM				5	RW27	27	255.634
50	TF	BOSNA	N							260.333	TT			8.822	NM	+	9000.00 FT [ALT]				1.000 NM				5	RW27	27	255.333

DER 1K

Seq N°	PT	W/P ID	OverFly	Fix role	TD	RMD VHF	THETA (°) magnetic	RHO Val	RHO uom	CRS Val (°)	CRS Type	TIME val	TIME uom	DIST val	DIST uom	ALT DESC	ALT ONE	ALT TWO	SPD LMT	VRT ANG (°)	NAV PERF	RADIUS val	RADIUS uom	ARC CTR ID	Phase	Transition Identifier	Runway Direction	Magnetic CRS val(°)
10	CA									271.274	MT					+	1180.00 FT [ALT]				1.000 NM				5	RW27	27	NotApplicable
20	CF	TZ700	Y			TZU	271.879	6.138	NM	271.274	MT			6.344	NM						1.000 NM				5	RW27	27	NotApplicable
30	DF	TZ702	N																		1.000 NM				5	RW27	27	
40	TF	TZ704	N							321.157	TT			5.900	NM						1.000 NM				5	RW27	27	316.157
50	TF	TZ706	N							321.096	TT			9.800	NM						1.000 NM				5	RW27	27	316.096
60	TF	DER	N							320.995	TT			14.172	NM	+	FL110 [STD]				1.000 NM				5	RW27	27	315.995

KEB 1K

Seq N°	PT	W/P ID	OverFly	Fix role	TD	RMD VHF	THETA (°) magnetic	RHO Val	RHO uom	CRS Val (°)	CRS Type	TIME val	TIME uom	DIST val	DIST uom	ALT DESC	ALT ONE	ALT TWO	SPD LMT	VRT ANG (°)	NAV PERF	RADIUS val	RADIUS uom	ARC CTR ID	Phase	Transition Identifier	Runway Direction	Magnetic CRS val(°)
10	CA									271.274	MT					+	1180.00 FT [ALT]				1.000 NM				5	RW27	27	NotApplicable
20	CF	TZ700	Y			TZU	271.879	6.138	NM	271.274	MT			6.344	NM						1.000 NM				5	RW27	27	NotApplicable
30	DF	YULHU	N																220.00 KT		1.000 NM				5	RW27	27	
40	TF	TZ714	N							190.540	TT			11.000	NM						1.000 NM				5	RW27	27	185.540
50	TF	KEB	N							190.506	TT			11.412	NM	+	10000.00 FT [ALT]				1.000 NM				5	RW27	27	185.506

SOMUN 1K

Seq N°	PT	W/P ID	OverFly	Fix role	TD	RMD VHF	THETA (°) magnetic	RHO Val	RHO uom	CRS Val (°)	CRS Type	TIME val	TIME uom	DIST val	DIST uom	ALT DESC	ALT ONE	ALT TWO	SPD LMT	VRT ANG (°)	NAV PERF	RADIUS val	RADIUS uom	ARC CTR ID	Phase	Transition Identifier	Runway Direction	Magnetic CRS val(°)
10	CA									271.274	MT					+	1180.00 FT [ALT]				1.000 NM				5	RW27	27	NotApplicable
20	CF	TZ700	Y			TZU	271.879	6.138	NM	271.273	MT			6.344	NM						1.000 NM				5	RW27	27	NotApplicable
30	DF	TZU	Y																		1.000 NM				5	RW27	27	
40	TF	TZ720	N							062.030	TT			8.900	NM				220.00 KT		1.000 NM				5	RW27	27	057.030
50	TF	SOMUN	N							062.159	TT			9.040	NM	+	FL110 [STD]				1.000 NM				5	RW27	27	057.159

VEBAR 1K

Seq N°	PT	W/P ID	OverFly	Fix role	TD	RMD VHF	THETA (°) magnetic	RHO Val	RHO uom	CRS Val (°)	CRS Type	TIME val	TIME uom	DIST val	DIST uom	ALT DESC	ALT ONE	ALT TWO	SPD LMT	VRT ANG (°)	NAV PERF	RADIUS val	RADIUS uom	ARC CTR ID	Phase	Transition Identifier	Runway Direction	Magnetic CRS val(°)
10	CA									271.274	MT					+	1180.00 FT [ALT]				1.000 NM				5	RW27	27	NotApplicable
20	CF	TZ700	Y			TZU	271.879	6.138	NM	271.274	MT			6.344	NM						1.000 NM				5	RW27	27	NotApplicable
30	DF	YULHU	N																220.00 KT		1.000 NM				5	RW27	27	
40	TF	TZ716	N							109.561	TT			8.159	NM						1.000 NM				5	RW27	27	104.561
50	TF	TZ718	N							109.685	TT			10.000	NM						1.000 NM				5	RW27	27	104.685
60	TF	VEBAR	N							109.838	TT			11.000	NM	+	10000.00 FT [ALT]				1.000 NM				5	RW27	27	104.838

VIBOP 1K

Seq N°	PT	W/P ID	OverFly	Fix role	TD	RMD VHF	THETA (°) magnetic	RHO Val	RHO uom	CRS Val (°)	CRS Type	TIME val	TIME uom	DIST val	DIST uom	ALT DESC	ALT ONE	ALT TWO	SPD LMT	VRT ANG (°)	NAV PERF	RADIUS val	RADIUS uom	ARC CTR ID	Phase	Transition Identifier	Runway Direction	Magnetic CRS val(°)
10	CA									271.274	MT					+	1180.00 FT [ALT]				1.000 NM				5	RW27	27	NotApplicable
20	CF	TZ700	Y			TZU	271.879	6.138	NM	271.274	MT			6.344	NM						1.000 NM				5	RW27	27	NotApplicable
30	DF	TZ702	N																		1.000 NM				5	RW27	27	
40	TF	TZ704	N							321.157	TT			5.900	NM						1.000 NM				5	RW27	27	316.157
50	TF	TZ706	N							321.096	TT			9.800	NM						1.000 NM				5	RW27	27	316.096
60	TF	TZ708	N							062.840	TT			17.466	NM	+	10000.00 FT [ALT]		250.00 KT		1.000 NM				5	RW27	27	057.840
70	TF	VIBOP	N							063.097	TT			8.784	NM						1.000 NM				5	RW27	27	058.097

ADHP ICAO Identifier	W/P ID	W/P ICAO Code	W/P Type	Latitude	Longitude
LQTZ	BADIB		ICAO	44°37'50.3370"N	018°41'19.4590"E
LQTZ	BIBWA		ICAO	44°35'10.0400"N	018°22'36.1240"E
LQTZ	BOSNA		ICAO	44°22'14.0000"N	017°45'35.0000"E
LQTZ	DER		ICAO	44°59'02.8600"N	017°58'10.0600"E
LQTZ	EDHUG		ICAO	44°41'27.2760"N	018°44'00.0270"E
LQTZ	IMEFE		ICAO	44°21'11.0280"N	018°59'45.6390"E
LQTZ	KEB		ICAO	43°56'01.9100"N	018°26'59.3800"E
LQTZ	MATQU		ICAO	44°29'12.0440"N	018°21'43.1980"E
LQTZ	NOMQI		ICAO	44°23'14.0360"N	018°20'50.4520"E
LQTZ	RW09		ADHP	44°27'35.5500"N	018°42'33.3500"E
LQTZ	RW27		ADHP	44°27'26.7200"N	018°44'25.2900"E
LQTZ	SANWI		ICAO	44°50'59.2960"N	018°19'19.2830"E
LQTZ	SOMUN		ICAO	44°35'47.0000"N	019°05'18.0000"E
LQTZ	TZ408		ADHP	44°28'40.3140"N	018°28'39.8850"E
LQTZ	TZ414		ADHP	44°53'00.6510"N	018°37'43.2310"E
LQTZ	TZ416		ADHP	44°35'23.8690"N	018°36'54.9910"E
LQTZ	TZ424		ADHP	44°13'47.9710"N	018°22'59.0590"E
LQTZ	TZ426		ADHP	44°15'19.7580"N	018°43'21.5880"E
LQTZ	TZ428		ADHP	44°11'46.7050"N	018°57'06.1220"E
LQTZ	TZ430		ADHP	44°25'53.6810"N	018°04'25.9050"E
LQTZ	TZ440		ADHP	44°26'08.8830"N	019°00'35.4670"E
LQTZ	TZ441		ADHP	44°33'35.9940"N	019°01'46.5670"E
LQTZ	TZ510		ADHP	44°27'00.2660"N	018°49'58.3150"E
LQTZ	TZ522		ADHP	44°49'26.1280"N	018°43'50.9810"E
LQTZ	TZ530		ADHP	44°18'01.1970"N	018°56'07.1300"E
LQTZ	TZ532		ADHP	44°09'21.2100"N	018°44'34.4900"E
LQTZ	TZ540		ADHP	44°22'30.7530"N	018°39'12.2000"E
LQTZ	TZ544		ADHP	44°20'28.3550"N	018°05'57.1960"E
LQTZ	TZ550		ADHP	44°35'30.1850"N	018°44'10.0650"E
LQTZ	TZ560		ADHP	44°17'58.3590"N	019°02'03.6470"E
LQTZ	TZ606		ADHP	44°28'05.8950"N	018°36'05.5960"E
LQTZ	TZ608		ADHP	44°26'41.4250"N	018°53'53.4050"E
LQTZ	TZ610		ADHP	44°26'09.0950"N	019°00'32.8530"E
LQTZ	TZ612		ADHP	44°31'07.1680"N	019°01'20.1950"E
LQTZ	TZ614		ADHP	44°35'44.5370"N	018°59'12.9040"E
LQTZ	TZ616		ADHP	44°43'49.3190"N	018°41'57.0410"E
LQTZ	TZ618		ADHP	44°43'22.1690"N	018°50'20.5580"E
LQTZ	TZ620		ADHP	44°50'09.8570"N	018°42'37.0220"E
LQTZ	TZ622		ADHP	44°46'00.8940"N	018°24'48.9350"E
LQTZ	TZ624		ADHP	44°54'31.6020"N	018°07'27.5120"E
LQTZ	TZ626		ADHP	44°15'52.7130"N	019°04'17.3930"E
LQTZ	TZ628		ADHP	44°17'11.5510"N	018°54'30.9230"E
LQTZ	TZ630		ADHP	44°10'16.3490"N	018°45'27.7020"E
LQTZ	TZ632		ADHP	44°21'31.6070"N	018°44'07.3930"E
LQTZ	TZ634		ADHP	44°21'47.9340"N	018°26'00.3810"E
LQTZ	TZ700		ADHP	44°28'08.1250"N	018°35'36.9170"E
LQTZ	TZ702		ADHP	44°35'50.0380"N	018°24'33.8330"E
LQTZ	TZ704		ADHP	44°40'25.6270"N	018°19'22.6880"E
LQTZ	TZ706		ADHP	44°48'02.8400"N	018°10'44.0720"E
LQTZ	TZ708		ADHP	44°55'59.0870"N	018°32'36.6360"E
LQTZ	TZ710		ADHP	44°26'49.3100"N	018°23'28.7870"E
LQTZ	TZ712		ADHP	44°23'43.5260"N	017°57'42.4440"E
LQTZ	TZ714		ADHP	44°07'15.2410"N	018°29'52.1610"E
LQTZ	TZ716		ADHP	44°15'19.7580"N	018°43'21.5880"E
LQTZ	TZ718		ADHP	44°11'56.8880"N	018°56'26.8960"E
LQTZ	TZ720		ADHP	44°31'34.2470"N	018°55'06.7890"E
LQTZ	TZU		ICAO	44°27'24.3300"N	018°44'07.5300"E
LQTZ	VEBAR		ICAO	44°08'12.0000"N	019°10'49.0000"E
LQTZ	VIBOP		ICAO	44°59'57.0000"N	018°43'39.0000"E
LQTZ	WIXFI		ICAO	44°45'59.1330"N	018°08'31.9570"E
LQTZ	YULHU		ICAO	44°18'04.1600"N	018°32'39.7700"E

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