ZSNB AD 2.1 机场地名代码和名称 Aerodrome location indicator and name

ZSNB-宁波/栎社 NINGBO/Lishe

ZSNB AD 2.2 机场地理位置和管理资料 Aerodrome geographical and administrative data

1	机场基准点坐标及其在机场的位置	N29 49.6' E121 27.8'	
1	ARP coordinates and site at AD	1250m FM THR 31	
2	方向、距离	220 °CEO 10 5km EM situ contor	
2	Direction and distance from city	259 GEO, 10.5km FM City center	
2	标高/参考气温	27 (250 %(NH.)	
3	Elevation / Reference temperature	3./m/35.0 C(JUL)	
4	机场标高位置/大地水准面波幅	DGI /	
4	AD ELEV PSN / geoid undulation	1250m FM THR 31 239 °GEO, 10.5km FM city center 3.7m/35.0 °C(JUL) RCL/- 4°16′W/ Ningbo Lishe International Airport Ningbo Lishe International Airport, Ningbo 315154, TEL:86-574-89006326 FAX:86-574-87427089 AFS:ZSNBYDYX Email:nbairport@nbairport.com Website:www.ningbo-airport.com IFR/VFR CIVIL/4E	
	磁差/年变率	401/03//	
5	MAG VAR/ Annual change	4-10 W/	
		Ningbo Lishe International Airport	
	机场管理部门、地址、电话、传真、AFS、电子邮箱、网址 AD administration, address,	Ningbo Lishe International Airport, Ningbo 315154,	
		TEL:86-574-89006326	
6		FAX:86-574-87427089	
	telephone, telefax, AFS, E - mail, website	AFS:ZSNBYDYX	
	• . , , , ,	Email:nbairport@nbairport.com	
		Website:www.ningbo-airport.com	
7	允许飞行种类	IED A/ED	
	Types of traffic permitted(IFR / VFR)	IFK/ VFK	
8	机场性质/飞行区指标	CIVII /AE	
8	Military or civil airport &Reference code	CIVIL/4E	
0	备注	Mil	
9	Remarks	INII	
_			

ZSNB AD 2.3 工作时间 Operational hours

1	机场当局(机场开放时间) AD Administration (AD operational hours)	H24
2	海关和移民 Customs and immigration	HS or O/R
3	卫生健康部门	HS or O/R

	Health and sanitation	
4	航行情报服务讲解室 AIS Briefing Office	H24
5	空中交通服务报告室 ATS Reporting Office (ARO)	H24
6	气象讲解室 MET Briefing Office	H24
7	空中交通服务 ATS	H24
8	か油 Fuelling	H24
9	地勤服务 Handling	H24
10	保安 Security	H24
11	除冰 De-icing	H24
12	备注 Remarks	Nil

ZSNB AD 2.4 地勤服务和设施 Handling services and facilities

1	货物装卸设施 Cargo-handling facilities	Tow tractor, fork-lift, baggage transporter, dolly, container dolly
2	燃油/滑油牌号 Fuel/oil types	Nr.3 jet fuel
3	加油设施/能力 Fuelling facilities/capacity	tank vehicle (65000 litres, 47000 litres, 45000 litres , 20 litres/ sec); hydrant dispenser (20 litres/ sec, for all stands)
4	除冰设施 De-icing facilities	4 de-icer, deicing fluid(KHF-1, cleanwing-I, cleanwing-II)
5	过站航空器机库 Hangar space for visiting aircraft	Nil
6	过站航空器的维修设施 Repair facilities for visiting aircraft	Line maintenance available on request for A319, A320, A321, B737-300/500/700/800, B757-200; A319/320/321 APU change.

7	备注	Ground power unit, ground air supply unit, ground air preconditioning
, ,	Remarks	unit, towing truck, maintenance platform truck

ZSNB AD 2.5 旅客设施 Passenger facilities

1	宾馆 Hotels	At AD
2	餐馆 Restaurants	At AD
3	交通工具 Transportation	Passenger's coaches, taxis, subway
4	医疗设施 Medical facilities	At AD
5	银行和邮局 Bank and Post Office	At AD
6	旅行社 Tourist Office	Nil
7	备注 Remarks	Nil

ZSNB AD 2.6 援救与消防服务 Rescue and fire fighting services

1	机场消防等级 AD category for fire fighting	CAT 8
2	援救设备 Rescue equipment	Fire fighting facilities: foam tender, water tank truck, demolition rescue truck, illumination truck, chemical supply tender, medicament reinforcement car.
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	MTWA up to A320-200, Rescue equipments: rescue lifting equipment, steel plate, tightwire, mobile surface operation devices, towing truck for B737-300/600/700/800, B747, B757, B767, A319-100, A320-200, A321, A330, A340, MD82, MD90, EMB145, EMB190, CRJ200, corporate aircraft . Rescue bandage for B757, A319/320/321, corporate aircraft.
4	备注 Remarks	Nil

ZSNB AD 2.7 可用季节- 扫雪 Seasonal availability-clearing

1	可用季节及扫雪设备类型 Types of clearing equipment	All seasons Spreading vehicle, snow blower, snow pusher, snow removaling plate
2	扫雪顺序 Clearance priorities	RWY, TWY, Apron
3	备注 Remarks	Nil

ZSNB AD 2.8 停机坪、滑行道及校正位置数据 Aprons, taxiways and check locations data

	停机坪道面和强度 Apron surface and strength	Surface:	CONC	
1		Strength:	PCN 86/R/B/W/T: stands Nr.305-312, 319-321, 510-519 PCN 78/R/B/W/T: stands Nr.17-26, 17A, 17B, 17C PCN 66/R/B/W/T: stands Nr.1-16 PCN 62/R/B/W/T: stands Nr.313-318, 326-332	
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	Width: Surface: Strength:	60m: A3(S of TWY A), B3, B5 46m: B2 42m: B13 39m: B7-B10 38m: A5(S of TWY A) 34m: A3(N of TWY A), A4, A5(N of TWY A) 28.5m: A1, A7, K1 23m: A, B, B6(N of taxiline L2) CONC PCN 86/R/B/W/T: A3(S of TWY A), B(W of TWY B10), B2, B3, B5, B6(N of taxiline L2), B7-B9 PCN 78/R/B/W/T: B(E of TWY A5), B13 PCN 66/R/B/W/T: A, A1, A3 (N of TWY A), A4, A5, A7, B(TWY B10-TWY A5), B10, K1	
3	高度表校正点的位置及其标高 ACL location and elevation	Nil		
4	VOR/INS 校正点 VOR/INS checkpoints	Nil		
5	备注 Remarks	Nil		

ZSNB AD 2.9 地面活动引导和管制系统与标识 Surface movement guidance and control system and markings

1	航空器机位号码标记牌、滑行道引导 线、航空器目视停靠引导系统的使用 Use of aircraft stand ID signs, TWY guide lines and visual docking / parking guidance system of aircraft stands	Taxiing guidance signs at all intersections of TWY and RWY and at all holding positions. Guide lines at apron. Nose-in guidance for aircraft stands. Visual docking guidance system at stands Nr.305-321.			
		RWY markings	THR, RWY designations, TDZ, center line, edge line, aiming point		
	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	RWY lights	Center line, edge line, THR, RWY end, wing bar, road-holding position light		
2		TWY markings	Center line, edge line, intermediate holding positions, RWY holding position, TWY shoulders, mandatory instruction marking, information marking		
		TWY lights	Center line, edge line, intermediate holding positions, RWY guard lights, reflective maker on the edge of TWY.		
3	停止排灯 Stop bars	Nil			
4	备注 Remarks	RWY turn pad markin	ng		

ZSNB AD 2.10 机场障碍物 Aerodrome obstacles

Obstacles within	Obstacles within a circle with a radius of 15km centered on ARP							
序号 Serial Nr.	障碍物类型(*代表 有灯光) Obstacle type(*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞 航径区 Flight procedure / take - off flight path area affected	备注 Remarks		
1	*TWR	017	1920	49	Circling CAT A/B			
2	*TWR	038	2820	49				
3	BLDG	057	10112	165				
4	BLDG	060	11427	188				
5	BLDG	061	10001	145				
6	BLDG	063	9926	164				
7	BLDG	063	10071	139				

Obstacles withi	in a circle with a radius of	of 15km centered or	n ARP			
序号 Serial Nr.	障碍物类型(*代表 有灯光) Obstacle type(*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞 航径区 Flight procedure / take - off flight path area affected	备注 Remarks
8	BLDG	064	10472	178		
9	BLDG	065	10267	147		
10	BLDG	075	14641	266		
11	BLDG	092	7795	173		
12	BLDG	096	7996	173		
13	BLDG	105	8036	171		
14	BLDG	107	7790	228		
15	BLDG	108	7697	168		
16	GP Antenna	121	1028	20.3		
17	Light Pole	127	2288	18	RWY13 take-off path	
18	Antenna	128	2181	16	RWY13 take-off path	
19	TWR	132	3002	22		
20	*TWR	179	552	45	RWY31 VOR/DME、GP INOP final approach	
21	MT	272	10502	270		
22	МТ	276	12686	537	RWY13 ILS/DME missed approach	
23	MT	287	10108	277		
24	MT	289	10716	342	RWY13 VOR/DME final approach; Circling CAT D	
25	*TWR	292	3413	46	RWY13 VOR/DME final approach	
26	Contour line	294	9217	100	Circling CAT C	
27	MT	298	14154	416		
28	МТ	306	14851	497.7	RWY31 departure; RWY31 take-off path	

序号	障碍物类型(*代表	磁方位	距离	海拔高度	影响的飞行程序及起飞	备注
Serial Nr.	有灯光)	BRG	DIST(m)	Elevation(m)	航径区	Remarks
	Obstacle	(MAG)(degree)			Flight procedure / take -	
	type(*Lighted)				off flight path area	
					affected	
29	Light Pole	308	2873	18	RWY31 take-off path	
30	TWR 308	5248	41	RWY13 GP INOP final		
30	1 W K	308	3246	41	approach	
31	BLDG	309	2924	18	RWY31 take-off path	
32	MT	309	14097	447		
33	BLDG	310	2493	12	RWY31 take-off path	
34	BLDG	311	2559	14	RWY31 take-off path	
35	Antenna	312	1591	20.2	RWY13 ILS/DME final	
33	Amemia	312	1391	20.2	approach	
					RWY13 GP INOP final	
36	MT	313	10463	195	approach;	
					RWY31 take-off path	
27	MT	313	12647	260	RWY13 GP INOP final	
37	IVI I	313	12647	369	approach	

序号	障碍物类型(*代表	磁方位	距离	海拔高度	影响的飞行程序及起飞	备注
Serial Nr.	有灯光)	BRG	DIST(m)	画戏可及 Elevation(m)	航径区	Remarks
	Obstacle	(MAG)(degree)	, ,	, ,	Flight procedure / take -	
	type(*Lighted)				off flight path area	
					affected	
1	MT	015	28143	436		
2	MT	016	18416	294		
3	MT	066	48388	456		
4	MT	080	26675	388		
5	МТ	096	30537	673		

Obstacles between	een two circles with the	radius of 15km and	d 50km centered	l on ARP		
序号 Serial Nr.	障碍物类型(*代表 有灯光) Obstacle type(*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞 航径区 Flight procedure / take - off flight path area affected	备注 Remarks
6	MT	097	41175	542		
7	BLDG	107	32068	546		
8	MT	115	27778	556		
9	MT	125	15018	160	RWY31 VOR/DME,GP INOP final approach	
10	MT	133	19649	465		
11	MT	136	23747	497		
12	MT	138	20019	465		
13	MT	140	19886	505		
14	BLDG	140	29438	643		
15	BLDG	143	29282	644		
16	MT	144	21353	536	RWY31 ILS/DME,VOR/DME intermediate approach	
17	BLDG	144	25436	696		
18	BLDG	145	25013	696		
19	BLDG	145	25235	712	RWY31 VOR/DME,ILS/DME initial approach; RWY31 RNP ILS/DME intermediate approach	
20	BLDG	146	28593	652		
21	BLDG	147	27949	656		
22	MT	148	25500	635		
23	MT	148	45961	551		
24	MT	185	24922	615		
25	MT	195	41631	764		

Obstacles betw	een two circles with the	radius of 15km and	d 50km centered	l on ARP		
序号 Serial Nr.	障碍物类型(*代表 有灯光) Obstacle type(*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞 航径区 Flight procedure / take - off flight path area affected	备注 Remarks
26	MT	204	33920	712		
27	MT	218	30183	810		
28	MT	225	42898	746		
29	MT	234	45610	930		
30	MT	252	28960	976		
31	MT	264	35952	896		
32	MT	265	23739	800		
33	MT	280	34082	777		
34	MT	281	16042	521		
35	MT	281	41533	649		
36	МТ	289	18586	602	RWY31 ILS/DME,RNP ILS/DME,GP INOP,VOR/DME missed approach	
37	MT	291	29559	650	RWY13 VOR/DME,ILS/DME initial approach	
38	MT	293	22032	538		
39	MT	298	15994	521	RWY13 ILS/DME,RNP ILS/DME intermediate approach	
40	MT	298	18216	573		
41	MT	298	31747	638		
42	MT	298	39479	435		
43	TWR	300	18739	598	RWY13 ILS/DME,RNP ILS/DME intermediate approach	

Obstacles between	Obstacles between two circles with the radius of 15km and 50km centered on ARP						
序号 Serial Nr.	障碍物类型(*代表 有灯光) Obstacle type(*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞 航径区 Flight procedure / take - off flight path area affected	备注 Remarks	
44	MT	301	21580	452			
45	MT	303	18103	535			
46	MT	304	16103	431			
47	MT	306	18591	515			
48	MT	308	15681	513			
49	MT	308	16915	466			
50	TWR	313	42104	291			
51	TWR	313	42166	243			
52	TWR	332	44390	239			
53	MT	337	31295	446			
54	MT	353	29594	431			

Others:

Other obstacles refer to AD OBST Chart.

ZSNB AD 2.11 提供的气象信息、机场观测与报告 Meteorological information provided & aerodrome observations and reports

1	相关气象台的名称 Associated MET Office	Ningbo ATMB MET Office
2	气象服务时间;服务时间以外的责任气象 台 Hours of service, MET Office outside hours	H24
3	负责编发 TAF 的气象台;有效时段;发布间隔 Office responsible for TAF preparation,Periods of validity; Interval of issuance	Ningbo ATMB MET Office 9 HR, 24HR
4	趋势预报发布间隔 Issuance interval of trend forecast	Trend 1 HR

5	所提供的讲解/咨询服务 Briefing/consultation provided	T, P
6	飞行文件及其使用语言 Flight documentation, Languages used	Chart, International MET Codes, Abbreviated Plain Language Text Ch, En
7	讲解/咨询服务时可利用的图表和其它信息 Charts and other information available for briefing or consultation	Synoptic charts, significant weather charts, upper W/T charts, satellite and radar material, AWOS real-time data
8	提供信息的辅助设备 Supplementary equipment available for providing information	FAX, MET Service Terminal
9	提供气象情报的空中交通服务单位 ATS units provided with information	Ningbo Tower
10	观测类型与频率/自动观测设备 Type & frequency of observation/Automatic observation equipment	Hourly plus special observation/Yes
11	气象报告类型及所包含的补充资料 Type of MET Report & supplementary information included	METAR, SPECI, TEND
12	观测系统及位置 Observation System & Site(s)	RVR EQPT A: 100m L of RCL,440m inward THR13; B: 100m R of RCL,310m inward THR31. SFC wind sensors 13: 106m L of RCL,446m inward THR; 31: 106m R of RCL,316m inward THR. Ceilometer 60m S of RCL extension line,306m outside THR31; 4m S of RCL extension line,1000m outside THR31.
13	气象观测系统的工作时间 Hours of operation for meteorological observation system	H24
14	气候资料 Climatological information	Climatological tables AVBL
15	其他信息 Additional information	Nil

ZSNB AD 2.12 跑道物理特征 I	Runway physical characteristics
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跑道号码 Designations RWY NR	真方位和磁方 位 TRUE &MAG BRG	跑道长宽 Dimensions of RWY(m)	跑道强度(PCN), 跑道道面/停止 道道面 RWY strength (PCN), RWY surface/ SWYsurface	着陆入口坐标及 高程异常 THR coordinates and geoid undulation	跑道入口标高,精密进近 跑道接地带最高标高 THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
13	124 GEO 128 MAG 304 GEO	3200×45	66/R/B/W/T CONC/- 66/R/B/W/T		THR3.7m TDZ3.7m THR3.7m
31	308 MAG	3200×45	CONC/-		TDZ3.7m
跑道-停止道坡度 Slope of RWY-SWY	停止道长宽 SWY dimensions(m)	净空道长宽 CWY dimensions(m)	升降带长宽 Strip dimensions(m)	无障碍物区 OFZ	跑道端安全区长宽 RWY end safety area dimensions(m)
7	8	9	10	11	12
0%	Nil	Nil	3320×300	Nil	225×150
0%	Nil	Nil	3320×300	Nil	225×150

Remark:

60×60m anti-blast pad (asphalt concrete) on the both ends of RWY.

ZSNB AD 2.13 公布距离 Declared distances

跑道号码	可用起飞滑跑距离	可用起飞距离	可用加速停止距离	可用着陆距离	备注
RWY Designator	TORA(m)	TODA(m)	ASDA(m)	LDA(m)	Remarks
1	2	3	4	5	6
13	3200	3200	3200	3050	THR displaced 150m inwards
31	3200	3200	3200	3200	Nil
Remarks:					

ZSNB AD 2.14 进近和跑道灯光 Approach and runway lighting

跑道 代号 RWY Desig nator	进近灯 类型、 长度、 强度 APCH LGT type LEN INTST	入口灯 颜色、 翼排灯 THR LGT colour WBAR	目视进近坡 度指示系统(跑道入口最 低眼高),精 密进近航道 指示器 VASIS (MEHT) PAPI	接地地带 灯长度 TDZ LGT LEN	跑道中心线灯 长度、间隔、 颜色、强度 RWY Center line LGT LEN, spacing, colour, INTST	跑道边灯长 度、间隔、颜 色、强度 RWY edge LGT LEN, spacing, colour, INTST	跑道末端 灯颜色 RWY end LGT colour	停止道灯 长度、颜 色 SWY LGT LEN, colour
1	2	3	4	5	6	7	8	9
13	PALS CAT I* 900m LIH	GREEN Yes	PAPI LEFT 330m inward displaced THR13 3°	Nil	3200m** spacing 30m	3200m*** spacing 60m	RED	Nil
31	PALS CAT I* 900m LIH	GREEN Yes	PAPI LEFT 330m inward THR31 3°	Nil	3200m** spacing 30m	3200m*** spacing 60m	RED	Nil

Remarks:*SFL

ZSNB AD 2.15 其他灯光,备份电源 Other lighting, secondary power supply

1	机场灯标/识别灯标位置、特性和工作时间 ABN/IBN location, characteristics and hours of operation	Nil
2	着陆方向标/风向标位置和灯光 LDI/WDI location and LGT	WDI: 13:90m N of RCL, 320m inward THR, Lighting; 31:90m S of RCL, 320m inward THR, Lighting.
3	滑行道边灯和中线灯 TWY edge and center line lighting	All TWYs
4	备份电源/转换时间	Dual feed, diesel engine driven generator / 15 sec

 $[\]ast\ast$ 0-2300m White VRB LIH, 2300-2900m Red/White VRB LIH, 2900-3200m Red VRB LIH

^{*** 0-2600}m White VRB LIH, 2600-3200m Yellow VRB LIH

		Secondary power supply/switch-over time	
	ų	备注	Nil
	3	Remarks	Nil

ZSNB AD 2.16 直升机着陆区域 Helicopter landing area

1	TLOF坐标或FATO 入口坐标及大地水准面 波幅 Coordinates TLOF or THR of FATO Geoid undulation	Nil
2	TLOF 和/或 FATO 标高(m/ft) TLOF and/or FATO elevation (m/ft)	Nil
3	TLOF 和 FATO 区域范围、道面、强度和标志 TLOF and FATO area dimensions, surface, strength, marking	Nil
4	FATO 的真方位和磁方位 True and MAG BRG of FATO	Nil
5	公布距离 Declared distance available	Nil
6	进近灯光和 FATO 灯光 APP and FATO lighting	Nil
7	备注 Remarks	Nil

ZSNB AD 2.17 空中交通服务空域 ATS airspace

名称 Designation	水平范围 Lateral limits	垂直范围 Vertical limits	备注 Remarks
Ningbo tower control area	A circuit, 2 arcs with radius 13km centered at center of both RWY ends and 2 parallel lines of 13km FM RCL.	SFC-1200m MSL	

名称 Designation	水平范围 Lateral limits	垂直范围 Vertical limits	备注 Remarks
Altimeter setting region and TL/TA	N300456 E1211619- N294501 E1205854- N292600 E1210643- N301509 E1214543-An arc with a radius of 30NM centered on Ningbo VOR(NGB).	TL 3600m TA 3000m 3300(QNH≥1031hPa) 2700(QNH≤979hPa)	3000m(QNH) or below: by ATC

ZSNB AD 2.18 空中交通服务通信设施 ATS communication facilities

服务名称 Service Designation	呼号 Call sign	频率 Frequency (MHz)	工作时间 Hours of operation	备注 Remarks
1	2	3	4	5
ATIS		126.45	H24	
APP	Ningbo Approach	125.45(119.55)	H24	
TWR	Ningbo Tower	118.35(130.0,118.7)	H24	
APN	Ningbo Apron	121.6(130.00)	H24	
Delivery	Ningbo Delivery	121.95	0030-1230	

ZSNB AD 2.19 无线电导航和着陆设施 Radio navigation and landing aids

设施名称和类型 Name and type of aid	识别 ID	频率 Frequency	发射天线位置、坐标 Antenna site coordinates	DME 发射天线标 高 Elevation of DME transmitting antenna	备注 Remarks
1	2	3	4	5	6
Ningbo VOR/DME	NGB	116.3MHz CH110X	N29 49.8' E121 27.8' 331 MAG/ 493m FM ARP	9m	
Andong VOR/DME	AND	114.8MHz CH95X	N30°15.4′ E121°13.3′	5m	For VOR: R294 °R306 ° clockwise U/S. For VOR: BTN 11.5-15.5NM on R185 °U/S.

设施名称和类型 Name and type of aid	识别 ID	频率 Frequency	发射天线位置、坐标 Antenna site coordinates	DME 发射天线标 高 Elevation of DME transmitting antenna	备注 Remarks
Lishe NDB	ВК	227kHz	N29 '53.7' E121 '20.0' 306 °MAG/ 14877m FM ARP		For arrival and departure procedure: 11-15.5NM on bearing 093 U/S, 8-10NM on bearing 241 U/S, 8-13.5NM and 16-17.5NM and 18.5-19.5NM on bearing 291 U/S; for holding procedure: 12-14NM on bearing 241 U/S; for departure procedure: 2-3.5NM on bearing 145 U/S; for initial approach procedure: on bearing 286 °U/S.
LOC 13 ILS CATI	IBK	108.9MHz	128 MAG /290m FM end RWY 13		Beyond -22 °of front course U/S.
GP 13		329.3MHz	120m N of RCL, 289m inward displaced THR		Angle 3.22 ° RDH 16.6m Coverage 10NM
DME 13	IBK	CH26X (108.9MHz)	116m N of RCL, 289m inward THR13	9m	Co-located with GP
LOC 31 ILS CATI	ILL	110.9MHz	308 MAG / 290m FM end RWY 31		Beyond +27° of front course U/S.
GP 31		330.8MHz	120m N of RCL, 304m inward THR		Angle 3 ° RDH 16.6m Coverage 10NM
DME 31	ILL	CH46X (110.9MHz)	123m N of RCL, 304m inward THR	9m	Co-located with GP

ZSNB AD 2.20 本场飞行规定

ZSNB AD 2.20 Local traffic regulations

1. 机场使用规定

- 1.1 所有训练飞行和技术试飞需事先申请,并在得到 空中交通管制部门批准后方可进行;
- 1.2 可用最大机型: B747 同类及其以下机型。
- 1.3 应答机使用注意事项:
- 1.3.1 落地航空器脱离跑道后,离场航空器到达跑道 外等待点前,应将应答机设置为地面模式。
- 1.3.2 离场航空器在收到进跑道指令后应将应答机设置为空中模式。
- 1.4 机组应根据机型及进近方式,检查机场运行最低标准,若不能满足时应及时报告管制员。
- 1.5 本场实施机坪运行管理,由宁波塔台负责所有航空器放行许可的发布工作以及向塔台地面管制区域 (平行滑行道 A 和 B 之间中点连线以北区域) 航空器提供空中交通管制服务;在航空器获得放行许可后,宁波机坪负责机坪管制区域(平行滑行道 A 和

1. Airport operations regulations

- 1.1 Each and every training and technical test flight shall be filed in advance and shall be made only after clearance has been obtained from ATC;
- 1.2 Maximum aircraft to be available: B747 and equivalent.
- 1.3 Notice for using transponder:
- 1.3.1 After landing aircraft vacate RWY, departure aircraft shall set transponder on ground mode before reaching the runway holding point.
- 1.3.2 After departure aircraft receive the enter RWY instruction, set transponder to air mode.
- 1.4 Aircrew shall according to aircraft types and approach mode, check the aerodrome operating minima, pilot shall inform ATC if can not fulfill the aerodrome operating minima.
- 1.5 Apron operation implemented at Ningbo/Lishe airport, TWR is responsible for issuing delivery clearance for all the aircrafts, and providing air traffic service for the aircrafts at TWR control area (N of the midpoint line between parallel TWY A and TWY B);

B 之间中点连线以南区域) 航空器推出、开车、滑 行和其他涉及航空器运行的指挥工作。宁波机坪向 宁波塔台以道口移交的方式移交出港航空器, 航空 器驾驶员必须严格遵守机坪管理规定或听从管制员 指令滑行。

aircraft get delivery clearance, APN is when responsible for aircraft push out, start up, taxiing, and other command relate to aircraft operation at APN contrl area (S of the midpoint line between parallel TWY A and TWY B). The exit aircraft shall be handed over from APN to TWR in the way of crossing. The pilot shall strictly abide the APN management regulations or taxi according to the instructions of controllers.

2. 跑道和滑行道的使用

- 2.1 可以通过现场指挥中心申请拖车服务;
- 2.2 禁止航空器在滑行道和机坪滑行通道上做 180° 2.2 180 furnaround on TWY and apron taxilane is 转弯:
- 2.3 对机组的要求:
- 2.3.1 飞行机组应认真听取并重复地面管制员的滑 行指令,按指定的滑行路线滑行。发现问题及时证实。
- 2.3.2 推出前,机组应向地面管制员证实使用的跑道 2.3.2 Flight crew shall confirm the RWY in use and the 和推出方向。

2. Use of runways and taxiways

- 2.1 Towing service is available via Ground Control;
- forbidden for all aircraft:
- 2.3 Flight crew requirements:
- 2.3.1 Flight crew shall listen carefully, repeat and follow the taxi clearances given by ATC. IF there is any question, confirm in time.
- taxiing direction before pushed-back.

2.4 机坪滑行线翼展限制/Taxiline wing span limits:

机坯滑行线/Toviling	航空器翼展限制/
机坪滑行线/Taxiline	Wing span limits for aircraft
B6(S of L2), L1, L2	≤65m

M1(taxi in stands Nr.515, 516)	≤52m
M1(taxi in stands Nr.517-519), S1	≤36m

2.5 本场 A1、A3 (A 滑以北)、K1、A4(A 滑以北)、 A5(A 滑以北)、A7、B13 滑行道增补面按 B747-400 为最大机型设计, B777、A340-600、B747-8 机型在 上述滑行道运行时需采用偏置转弯方式滑行;B10(B 滑以北)、A4 (A 滑以南)、A5(A 滑以南)滑行道增 补面按 B767-300 最大机型设计; 其他滑行道增补面 按 A340-600 为最大机型设计。

2.5 Maximum aircraft of supplementary surface of TWY A1, A3(N of TWY A), K1, A4(N of TWY A), A5 (N of TWY A), A7, B13 is B747-400. Aircraft B777, A340-600 and B747-8 shall offset TWY centerline while turning. Maximum aircraft of supplementary surface of TWYs B10(N of TWY B), A4(S of TWY A), A5(S of TWY A) is A767-300. Maximum aircraft of other supplementary surface of TWYs is A340-600.

2.6 掉头线限制/Turning guidance marking limits:

掉头线位置/Turning guidance marking	主起落架外轮外侧边间 距限制/Outside distance limits of main landing gear outer wheel	机身长度限制/ Fuselage limits	鼻轮转向角限制/Steering angle of front wheels limits
RWY31 end	≤12.6m	≤70.67m	≤59°
RWY13 end	≤9m	≤47.32m	≤48.52°
Intersection BTN TWY A3/K1 and RWY	≤10.9m	≤54.94m	≤48.19°

2.7 跑道运行原则:

2.7 General rules for using runways:

2.7.1 起飞航空器:

2.7.1 For departure aircraft:

2.7.1.1 起飞航空器从接到管制员进跑道指令到对正 2.7.1.1 Departure aircraft shall finish runway alignment 跑道时间应控制在 60s 以内,并能够立即执行起飞指 within 60 seconds after receiving ATC instructions of 令。如机组认为无法在上述要求的时间内完成,须在到达跑道外等待点之前向塔台管制员说明(湿跑道或污染跑道除外)。

entering runway; If flight crew consider that they can not fulfill the process within the required time, pilot shall inform TWR ATC controller before reaching the runway holding point(except for wet or contaminated RWY).

2.7.1.2 起飞航空器使用 13 号跑道时, 离地后需保持跑道方向, 联系宁波进近后听管制员雷达引导。

2.7.1.2 Departure aircraft use RWY13, keep the RWY direction after departure, contact APP ATC controller.

2.7.2 落地航空器:

2.7.2 For landing aircraft:

2.7.2.1 落地航空器应尽快退出跑道,从接地到滑出 跑道时间应控制在 60s 以内,如机组认为无法在上述 要求的时间内完成,须在首次联系塔台时向管制员 说明(湿跑道或污染跑道除外)。 2.7.2.1 Aircraft shall fully vacate runway within 60 seconds after touching down; If flight crew consider that they can not fulfill the process within the required time, pilot shall inform TWR ATC controller at first contact(except for wet or contaminated RWY).

2.7.2.2 落地航空器应尽快退出跑道, 脱离跑道后应及时向塔台管制员报告已脱离跑道和脱离所使用的滑行道。

2.7.2.2 Landing aircraft shall vacate the RWY as soon as possible, then inform TWR ATC controller.

2.7.3 在转换跑道运行方向过程中,短时使用跑道顺风分量大于 3m/s,但不大于 5m/s 时,管制员应将该信息通知相关航空器驾驶员。航空器驾驶员根据机型性能或运行手册,决定是否使用管制员安排的顺风跑道起飞或着陆,并将决定告知管制员。

2.7.3 When aircraft change direction of runway in use, ifdownwind speed is more than 3m/s and not exceeding 5m/s for short time, ATC controller shall inform flight crew. According to aircraft performance or operation handbook, pilot shall decide whether aircraft will take off or land on downwind runway allocated, then inform ATC controller.

2.8 机动区冲突多发地带运行要求:

2.8 Hot spot procedure:

- 2.8.1 使用 13 号跑道时,滑行冲突热点区域: B6、B9、B10、B13 滑行道与平滑 A、B 交叉地带。
- 2.8.2 使用 31 号跑道时,滑行冲突热点区域: B3、B6、B9、B10、B13 滑行道与平滑 A、B 交叉地带。

2.8.1 Hot spot when RWY13 in use: Intersection between TWY B6, B9, B10, B13 and main TWY A, B.

2.8.2 Hot spot when RWY31 in use: Intersection between TWY B3, B6, B9, B10, B13 and main TWY A, B.

3. 机坪和机位的使用

- 3.1 未经空中交通管制部门同意,严禁航空器利用自身动力倒滑。航空器在机坪上活动必须经空管部门同意后,方可按指定的滑行路线滑行、牵移。
- 3.2 航空器发动机试车需经塔台和现场指挥中心许可,并在B13 滑行道以东的A滑行道和23至26号机位区域试车点进行,严禁在其他区域试车,试车时间是21:00至16:00(UTC)。

3. Use of aprons and parking stands

- 3.1 Aircraft push-back on its own power without ATC clearance is strictly forbidden. Aircraft taxiing and push-back on apron shall follow ATC clearance strictly.
- 3.2 Engine run-ups are subject to Tower Control and Command Center clearance, and may only be carried out between TWY A(east of TWY B13) and stands Nr.23-26 from 21:00 to 16:00(next day). Other areas are strictly forbidden.

3.3 机位使用限制/Limits for aircraft parking on the following stands:

停机位/Stands	航空器翼展限制(m)/ Wing span limits for aircraft	机身长度限制(m)/ Fuselage limits	滑入、滑出方式/ Enter or exit
309-311, 319, 510-513	<65	≤75.36	Taxi in/Push-back
3, 17, 18	<65	≤70.67	Taxi in/Push-back
19, 20, 308, 312, 514, 515	<52	≤61.6	Taxi in/Push-back
8, 9	≤47.57	≤53.61	Taxi in/Push-back
6, 10-16, 21-26, 516-519	<36	≤46.5	Taxi in/Push-back
326-332	<36	≤46.5	Taxi in/Taxi out
1, 2, 4, 5, 7, 305-307,	<36	≤45	Taxi in/Push-back

313-318, 320, 321			
7, 10-16	<36	≤44.5	Taxi in/Push-back
17A, 17B, 17C	<24	≤29.87	Taxi in/Push-back

3.4 组合机位的使用模式/Use of combined stands:

组合机位群/		模式包含机位及	使用限制/ Stands in	ncluded in use mode	e and limits
组合和证料/ Combined	组合模式/	机位/	翼展限制/	机身长度限制/	滑进、滑出方式
stands	Combined mode	Stand	Wing span	Fuselage limits	/
stands		Stand	limits	Tuserage mints	Enter or exit
	17	17	<65m	≤70.67m	
		17A	<24m	≤29.87m	Taxi
17, 17A,	17A, 17B, 17C	17B	<24m	≤29.87m	in/Push-back
17B, 17C		17C	<24m	≤29.87m	
	17 A 17D	17A	<24m	≤29.87m	Tovi in/Tovi out
	17A, 17B	17B	<24m	≤29.87m	Taxi in/ Taxi out

器必须关闭APU,使用400Hz桥载电源及飞机专用空 调设备。以下特殊情况除外:

3.5 为降低碳排放及噪音,所有停靠廊桥机位的航空 3.5 All aircrafts parking on boarding bridge stands shall turn off APU and use bridge equipment (400Hz) and special air conditioning. Except for the following circumstances:

3.5.1 服务方不能够提供有效的桥载设备服务;

3.5.1 Bridge equipment is unavailable;

3.5.2 航空器因启动发动机而需开启 APU;

3.5.2 Aircraft needs APU to start up engine;

3.5.3 航空器进行 APU 的维修检测活动;

3.5.3 APU is under maintenance;

3.5.4 遇到影响航班安全、正常运行的特殊情形,例如 3.5.4 In case of exceptional circumstances influencing

极端天气、专机保障、航班过站时间不足等有关情 况。

3.6 本场实施机坪运行管理,由宁波塔台负责所有航 空器放行许可的发布工作以及向塔台地面管制区域 (平行滑行道A和T3之间中点连线及延长线以北区 域) 航空器提供空中交通管制服务; 在航空器获得 放行许可后, 宁波机坪负责机坪管制区域(平行滑 行道 A 和 T3 之间中点连线及延长线以南区域) 航空

器推出、开车、滑行和其他涉及航空器运行的指挥

工作。宁波机坪向宁波塔台以道口移交的方式移交

出港航空器, 航空器驾驶员必须严格遵守机坪管理

3.6.1 13 号跑道离港航空器:

规定或听从管制员指令滑行。

305-318,326-332 号机位移交点为 B6;510-519 号机位 移交点为 B2:17-26 号机位移交点为 B13。

3.6.2 13 号跑道进港航空器:

305-318,326-332,510-519 号机位移交点为 B8;17-26 号机位移交点为 B13。

3.6.3 31 号跑道离港航空器:

号机位移交点为 B13。

3.6.4 31 号跑道进港航空器:

the operation safety, such as extreme weather, special plane support, insufficient flight transition time.

3.6 Apron operation: Ningbo TWR is responsible for releasing delivery clearance and providing air traffic control service in Tower Ground Control Area(north of the midpoint line and extended line between TWY A and T3); After the aircraft obtains delivery clearance, Ningbo APN is responsible for push-back, start-up, taxiing and other related operation control in Apron Control Area(south of the midpoint line and extended line between TWY A and T3). Ningbo APN transfer the departure aircraft to Ningbo TWR at the intersections of TWYs. The pilot must strictly obey apron control rules or taxi by ATC.

3.6.1 Departure Aircraft on RWY13:

B6 is the transfer point on Stands Nr.305-318, 326-332. B2 is the transfer point on Stands Nr.510-519. B13 is the transfer point on Stands Nr.17-26.

3.6.2 Landing Aircraft on RWY13:

B8 is the transfer point on Stands Nr.305-318, 326-332, 510-519. B13 is the transfer point on Stands Nr.17-26.

3.6.3 Departure Aircraft on RWY31:

305-318,326-332,510-519 号机位移交点为 B9;17-26 B9 is the transfer point on Stands Nr.305-318, 326-332, 510-519. B13 is the transfer point on Stands Nr.17-26.

3.6.4 Landing Aircraft on RWY31:

305-318,326-332 号机位移交点为 B6;510-519 号机位移交点为 B3:17-26 号机位移交点为 B13。

B6 is the transfer point on Stands Nr.305-318, 326-332.

B3 is the transfer point on Stands Nr.510-519. B13 is the transfer point on Stands Nr.17-26.

3.7 航空器应取得宁波机坪许可后方可推出开车,推出时须向宁波机坪证实使用跑道、推出方向。宁波机坪发布许可指令后,机组应在 3mins 之内执行; 起过 3mins 仍未推出开车则视为指令失效,机组需重新申请推出开车。 3.7 Aircraft shall confirm RWY in use and push-back orientation to Ningbo APN, then push back and start up after obtaining Ningbo APN clearance. Aircrew shall execute in 3 minutes, otherwise the instruction is invalid, they need to reapply for push-back and start-up.

4. 进、离场管制规定

5. 机场的 II/III 类运行

5. CAT II/III operations at AD

4. Air traffic control regulations

无

6. 除冰规则

无

6. Rules for deicing

Nil

Nil

无 Nil

7. 平行跑道同时仪表运行

7. Simultaneous operations on parallel runways

无 Nil

8. 警告 8. Warning

无 Nil

9. 直升机飞行限制,直升机停靠区 9. Helicopter operation restrictions and helicopter parking / docking area

无

Nil

ZSNB AD 2.21 噪音限制规定及减噪程序

ZSNB AD 2.21 Noise restrictions and Noise abatement procedures

无

Nil

ZSNB AD 2.22 飞行程序

ZSNB AD 2.22 Flight procedures

1. 总则

除经塔台特殊许可外,在塔台管制区内的飞行,必 须按照仪表飞行规则进行。

1. General

Flights within Tower Control Area shall operate under IFR unless special clearance has been obtained from Tower Control.

2. 起落航线

起落航线在跑道西南侧进行,通常在使用跑道及其进近灯 5km 范围内, C、D 类航空器高度 600m, A、B 类航空器高度 300m。

2. Traffic circuits

Traffic circuits shall be made to the southwest of runway, usually within 5km of runway and its approach lights, at the altitude of 600m for aircraft CAT C/D, and 300m for aircraft CAT A/B.

3. 仪表飞行程序

严格按照航图中公布的进、离场程序和 ENR2.2.3 中公布的有关规定飞行。如果需要,航空器可在空中交通管制部门指定的航路、导航台或定位点上空等待或做机动飞行。

3. IFR flight procedures

Strict adherence is required to the relevant arrival/departure procedures published in the aeronautical charts and the relevant regulations published in subsection ENR2.2.3. Aircraft may, if necessary, hold or maneuver on an airway, over a navigation facility or a fix designated by ATC.

4. 雷达程序和/或 ADS-B 程序

4. Radar procedures and/or ADS-B procedures

4.1 宁波进近管制区域内实施雷达管制。航空器最小 4.1 Radar control within Ningbo APP Control Area has 水平间隔为 6km, 最小垂直间隔为 300m。 been implemented. The minimum horizontal radar

4.1 Radar control within Ningbo APP Control Area has been implemented. The minimum horizontal radar separation is 6km, the minimum vertical radar separation is 300m.

5. 无线电通信失效程序

5.1 航空器通信失效

5.1.1 如果航空器具备信号接收能力,根据接收到的 管制指令继续飞行;

5.1.2 如果航空器不具备信号接收能力,航空器应按 照进近程序继续进近并尽快落地;如果本场不具备落 地条件,飞行员可自行决定返航或者备降;

a.向 13 号着陆

航空器按照最后接收到的管制员指令高度(如果低于 1800m 则上升至 1800m)飞向所许可的仪表进近程序中间进近定位点 IF,进入等待程序盘旋下降后按照 13 号跑道仪表进近程序着陆;

b.向 31 号着陆

航空器按照最后接收到的管制员指令高度(如果低于 1800m 则上升至 1800m)飞向 NGB 台,进入等待程序 盘旋下降后按照 31 号跑道仪表进近程序着陆;

5. Radio communication failure procedures

5.1 Aircraft communication failure

5.1.1 If the radio receiver available, aircraft shall follow theinstruction to fly.

5.1.2 If the radio receiver not available, aircraft shall continue to landing with approach procedure as soon as possible; If condition of airports not available for landing, the flight crew should decide to return or alternate by themselves;

a. landing to RWY13

Aircraft fly to the IF point of the permitted IAP according to the last command ALT (climb to 1800m if not reached), then join the holding procedure, descend to loss altitude and then approach and land according to RWY 13 instrument approach procedure;

b. landing to RWY31

Aircraft fly to 'NGB' VOR according to the last command ALT (climb to 1800m if not reached), then join the holding procedure, descend to loss altitude and then approach and land according to RWY 31

instrument approach procedure;

5.1.3 未收到管制进场航线指令,不得使用须经管制员许可的进场航线。

5.1.3 Arrival procedures requiring ATC clearance are not available without ATC clearance.

5.2 本场通信失效

5.2 Aerodrome communication failure

本场通信失效本场无线电收发功能失效,航空器无法与管制单位建立有效的通讯联系时,配备有卫星电话的航空器可以通过拨打管制单位值班岗位电话与管制单位重新建立联系(宁波进近0574-28916727;宁波塔台0574-28916726)。未配备卫星电话的航空器应联系上一管制单位,并按照接收管制单位的管制指令继续飞行;

If aircraft cannot establish communication with the aerodrome control unit, aircraft shall call ATC by satellite telephone to establish communication(Ningbo APP 86-574-28916727 or Ningbo TWR 86-574-28916726), no satellite telephone aircraft shall contact the previous control unit, and follow the instruction to continue;

5.3 无线电通信恢复

5.3 Radio communication resume to normal

失去通信联络的航空器已经着陆,或者已经恢复联络的,可恢复正常的管制运行,并立即通知相关管制单位。

It is available to resume activities when the aircraft that lose touch via Communication Channel has landed or get in touch again. Inform the ATC office immediately.

6. 目视飞行程序

无

无

6. Procedures for VFR flights

7. VFR route

Nil

7. 目视飞行航线

Nil

8. 目视参考点

8. Visual reference point

无 Nil

9. 其它规定

9. Other regulations

无

Nil

10. 区域导航飞行程序相关数据

10. Data for RNAV flight procedures

Waypoint Coordinates

Waypoint ID	COORDINATES	Waypoint ID	COORDINATES
NB104	N295813E1211237	NB301	N294622E1214438
NB105	N300306E1210405	NB302	N295500E1220000
NB106	N300431E1211249	NB303	N294508E1212414
NB107	N295341E1210914	NB304	N293536 E1212648
NB108	N294939E1210436	NB305	N294554E1210931
NB109	N294924E1211646	NB306	N294729E1212008
NB203	N294152E1214114	NB307	N295355E1212010
NB204	N293721E1213750	AND	N3015.4E12113.3
NB205	N294005E1213303	HSN	N2955.9E12221.8
NB206	N294224E1212901	NGB	N2949.8E12127.8
NB207	N295947E1210217	SHZ	N2936.0E12049.0
NB208	N295818E1210326	BK	N2953.7E12120.0
NB209	N295418E1214236	SUPAR	N3001.4E12051.5

RWY13 SID Navigation database coding table

Path Terminator	Waypoint ID	Fly	Magnetic Course	Turn Direction	Altitude (m)	IAS (km/h)	VPA/ TCH	Navigation Specification
AND-61X								
CA			128		200			RNP1
DF	NB306			R	1500	MAX350		RNP1

		1	1	1		
TF	NB109			1800		RNP1
TF	NB107					RNP1
TF	NB105					RNP1
TF	AND					RNP1
AND-63	3X(by ATC)	<u> </u>				
CA		128		200		RNP1
DF	NB306		R	1500	MAX350	RNP1
TF	NB109			1800		RNP1
TF	NB307			by ATC		RNP1
TF	AND					RNP1
AND-65	X(by ATC)	,	1	•		<u>'</u>
CA		128		350		RNP1
CF	NB209	031	L	by ATC	MAX350	RNP1
TF	AND					RNP1
HSN-61	X	<u> </u>		<u> </u>		
CA		128		200		RNP1
DF	NB306		R	1500	MAX350	RNP1
TF	NB109			1800		RNP1
TF	NB107					RNP1
TF	NB104					RNP1
TF	NB307			3000		RNP1
TF	NB209			3000		RNP1
TF	NB302			3000		RNP1
TF	HSN			3000		RNP1
HSN-63	X(by ATC)	<u>.</u>	•		-	<u>, </u>
CA		128		350		RNP1
CF	NB209	031	L	by ATC	MAX350	RNP1

TF	NB302			3000		RNP1
TF	HSN					RNP1
SHZ-61X(b	y ATC)		·			·
CA		128		200		RNP1
DF	NB304		R	by ATC	MAX350	RNP1
TF	SHZ					RNP1
SHZ-63X			·			·
CA		128		200		RNP1
DF	NB306		R	1500	MAX350	RNP1
TF	NB109			1800		RNP1
TF	SHZ					RNP1
SUP-61X						·
CA		128		200		RNP1
DF	NB306		R	1500	MAX350	RNP1
TF	NB109			1800		RNP1
TF	NB107					RNP1
TF	SUPAR					RNP1

RWY31 SID Navigation database coding table

Path Terminator	Waypoint	Fly over	Magnetic Course	Turn Direction	Altitude (m)	IAS (km/h)	VPA/ TCH	Navigation Specification
AND-62X								
CF	NB307		308		↑650			RNP1
TF	NB104							RNP1
TF	NB105							RNP1
TF	AND					MAX350		RNP1
AND-64X(b	y ATC)	•	•	•				

CF	NB307	308	↑650		RNP1
TF	AND			MAX350	RNP1
HSN-62X			·		
CF	NB307	308	↑650		RNP1
TF	NB104				RNP1
TF	NB107			MAX350	RNP1
TF	NB109				RNP1
TF	NB307		3000		RNP1
TF	NB209		3000		RNP1
TF	NB302		3000		RNP1
TF	HSN		3000		RNP1
HSN-64X(t	y ATC)				
CF	NB307	308	↑650		RNP1
TF	NB109		by ATC	MAX350	RNP1
TF	NB303		by ATC		RNP1
TF	NGB		by ATC		RNP1
TF	NB209		3000		RNP1
TF	NB302		3000		RNP1
TF	HSN		3000		RNP1
SHZ-62X					
CF	NB307	308	↑650		RNP1
TF	NB104				RNP1
TF	NB107			MAX350	RNP1
TF	SHZ				RNP1
SUP-62X					
CF	NB307	308	↑650		RNP1
TF	NB208			MAX350	RNP1

TF	SUPAR							RNP1
RWY13 STA	AR Navigatio	on database	coding table					
Path Terminator	Waypoint ID	Fly	Magnetic Course	Turn Direction	Altitude (m)	IAS (km/h)	VPA/ TCH	Navigation Specification
AND-51F								
IF	AND							RNP1
TF	NB105				1500	MAX380		RNP1
AND-53F(b	y ATC)							
IF	AND							RNP1
TF	NB106				1500	MAX380		RNP1
HSN-51F								
IF	HSN							RNP1
TF	NB302				2700			RNP1
TF	NB209				2700			RNP1
TF	NB307				2700			RNP1
TF	NB109				↑1800	MAX380		RNP1
HSN-53F(by	y ATC)							_
IF	HSN							RNP1
TF	NB302				2700			RNP1
TF	NB209				2700			RNP1
TF	NGB				by ATC			RNP1
TF	NB303				by ATC			RNP1
TF	NB109				↑1800	MAX380		RNP1
SHZ-51F								
IF	SHZ							RNP1
TF	NB108				1800	MAX380		RNP1

SUP-51F					
IF	SUPAR				RNP1
TF	NB207		1500	MAX380	RNP1

RWY13 Transition Navigation database coding table

Path Terminator AND-51F	Waypoint	Fly	Magnetic Course (°)	Turn Direction	Altitude (m)	IAS (km/h)	VPA/ TCH	Navigation Specification
TF	NB105				1500	MAX380		RNP1
TF	NB104				↑1000			RNP1
AND-53F(b	y ATC)							
TF	NB106				1500	MAX380		RNP1
TF	NB104				↑1000			RNP1
HSN-51F,H	SN-53F(by A	TC)						
TF	NB109				↑1800	MAX380		RNP1
TF	NB107				1500			RNP1
TF	NB104				↑1000			RNP1
SHZ-51F								
TF	NB108				1800	MAX380		RNP1
TF	NB107				1500			RNP1
TF	NB104				↑1000			RNP1
SUP-51F							•	•
TF	NB207				1500	MAX380		RNP1
TF	NB104				↑1000			RNP1

RWY31 STAR Navigation database coding table

Path	Waypoint	Fly	Magnetic	Turn	Altitude	IAS	VPA/	Navigation
Terminator	ID	over	Course	Direction	(m)	(km/h)	ТСН	Specification

		(9			
AND-52F	1		l		l
IF	AND				RNP1
TF	NB105				RNP1
TF	NB107				RNP1
TF	NB109				RNP1
TF	NB306		1500		RNP1
TF	NB206		1200		RNP1
TF	NB205		1200	MAX380	RNP1
AND-54F(b	y ATC)	•			
IF	AND				RNP1
TF	NB307		by ATC		RNP1
TF	NB109				RNP1
TF	NB306		1500		RNP1
TF	NB206		1200		RNP1
TF	NB205		1200	MAX380	RNP1
AND-56F(b	y ATC)				
IF	AND				RNP1
TF	NB209		by ATC		RNP1
TF	NB301		1200	MAX380	RNP1
HSN-52F					
IF	HSN				RNP1
TF	NB302		2700		RNP1
TF	NB209		2700		RNP1
TF	NB307		2700		RNP1
TF	NB104				RNP1
TF	NB107				RNP1

TF	NB109				RNP1			
TF	NB306		1500		RNP1			
TF	NB206		1200		RNP1			
TF	NB205		1200	MAX380	RNP1			
HSN-54F(by ATC)								
IF	HSN				RNP1			
TF	NB302		2700		RNP1			
TF	NB301		1200	MAX380	RNP1			
SHZ-52F		·						
IF	SHZ				RNP1			
TF	NB305		↑1800		RNP1			
TF	NB109				RNP1			
TF	NB306		1500		RNP1			
TF	NB206		1200		RNP1			
TF	NB205		1200	MAX380	RNP1			
SHZ-54F(by	ATC)	•						
IF	SHZ				RNP1			
TF	NB304		1800	MAX380	RNP1			
SUP-52F		•						
IF	SUPAR				RNP1			
TF	NB107				RNP1			
TF	NB109				RNP1			
TF	NB306		1500		RNP1			
TF	NB206		1200		RNP1			
TF	NB205		1200	MAX380	RNP1			
RWY31 Transition Navigation database coding table								

Path Waypoint Fly Magnetic Turn Altitude IAS VPA/ Navigation

Terminator	ID	over	Course	Direction	(m)	(km/h)	TCH	Specification	
			(9						
AND-52F,A	AND-52F,AND-54F(by ATC),HSN-52F,SHZ-52F,SUP-52F								
TF	NB205				1200	MAX380		RNP1	
TF	NB204							RNP1	
TF	NB203				↑1100			RNP1	
AND-56F(b	AND-56F(by ATC),HSN-54F(by ATC)								
TF	NB301				1200	MAX380		RNP1	
TF	NB203				↑1100			RNP1	
SHZ-54F(by	SHZ-54F(by ATC)								
TF	NB304				1800	MAX380		RNP1	
TF	NB204							RNP1	
TF	NB203				↑1100			RNP1	

RWY13 Holding Navigation database coding table

Path Terminator	Waypoint ID tbound time	Fly over	Magnetic Course ()	Turn Direction	Altitude (m)	IAS (km/h)	VPA/ TCH	Navigation Specification
Troiding (ou	toound time	i iiiiiiute)	T			T	T	ı
НМ	NB104	Y	128° (inbound angle)	R	1200	MAX400		RNP1
НМ	NB108	Y	049° (inbound angle)	L	by ATC	MAX400		RNP1

RWY31 Holding Navigation database coding table

Path Waypoint Fly Magnetic Turn Course Direction (9)	Altitude IAS VPA/ Navigation (m) (km/h) TCH Specification	n
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Holding (outbound time 1 minute)								
НМ	NB203	Y	308° (inbound angle)	R	by ATC	MAX400		RNP1
НМ	NB305	Y	065° (inbound angle)	L	by ATC	MAX400		RNP1

ZSNB AD 2.23 其它资料

ZSNB AD 2.23 Other information

鸟类主要活动情况见下表, 机场当局采取了驱赶措施, 以减少鸟群活动。

Mainly activities of bird flocks are described in the following table. Aerodrome Authority resorts to dispersal methods to reduce bird activities.

Type of bird	Activity period	Flight altitude(m)	Activity habit	
aigret	From end of June to	0-30	bevy	
digict	beginning of October			
night heron	From end of June to	0-30	solo or little bevy	
mgnt neron	beginning of October	0-30		
snipe	March to May, August to	0-20	hour	
sinpe	September	0-20	bevy	
sparrow	Whole year	0-10	bevy	
alexidonle	November to	0-30	bevy	
skylark	February(Next year)	0-30		
swallow	April to August	0-20	solo or little bevy	
Ivestual	October to March(Next	0.200	1	
kestrel	year)	0-200	solo	
turtledove	Whole year	0-20	pair or little bevy	