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

ZGNN- 南宁 / 吴圩 NANNING/Wuxu

ZGNN 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 ARP coordinates and site at AD	N22° 36.6' E108° 10.4' 266° MAG, 314m FM RWY center
2	方向、距离 Direction and distance from city	214° GEO, 27.8km from city center
3	标高 / 参考气温 Elevation/Reference temperature	128m/ 33° C (JUL)
4	机场标高位置 / 高程异常 AD ELEV PSN/ geoid undulation	500m inside THR23/-
5	磁差 / 年变率 MAG VAR/Annual change	1.7° W (2008) /-
6	机场管理部门、地址、电话、传真、AFS、电子邮箱、网址 AD administration, address, telephone, telefax, AFS, E-mail, website	Nanning Wuxu International Airport Nanning Wuxu Airport, Nanning 530048, Guangxi Zhuangzu Autonomous Region, China TEL: 86-771-2885100 FAX: 86-771-2885101 AFS: ZGNNYDYX Website: www.nnairport.com
7	允许飞行种类 Types of traffic permitted(IFR/VFR)	IFR/VFR
8	机场性质 / 飞行区指标 Military or civil airport & Reference code	Civil/4E
9	备注 Remarks	Nil

ZGNN 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	H24
3	卫生健康部门 Health and sanitation	H24
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	加油 Fuelling	H24
9	地勤服务 Handling	H24
10	保安 Security	H24
11	除冰 De-icing	Nil
12	备注 Remarks	Nil

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

1	货物装卸设施 Cargo-handling facilities	Bulk cargo platform lorries, container platform lorries, conveyor truck, luggage towing vehicle, elevation platform
2	燃油 / 滑油牌号 Fuel/oil types	Nr.3 jet fuel --
3	加油设施 / 能力 Fuelling facilities/capacity	Refueling trucks: 20 litres/sec Hydrant dispenser, apron refueling well
4	除冰设施 De-icing facilities	Nil
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 for various types of aircraft(A319, A321, A320-200, B737-300/400/500/600/700/800, B757-200, DORNIER328-300, CRJ-200, EMB-145, MD-82, MD-90 etc.) on request
7	备注 Remarks	Power units, air preconditioning units

ZGNN 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
4	医疗设施 Medical facilities	First aid, ambulances at AD
5	银行和邮局 Bank and Post Office	At AD
6	旅行社 Tourist Office	At AD
7	备注 Remarks	Nil

ZGNN 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	Fighting facilities: foam tender, command car, logistics truck, water tank truck, demolition rescue truck
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	Towing rack available for B747-400, A330 and below
4	备注 Remarks	Mobile surface operation devices, steel cable, bulldozer, fork, corresponding steel plate

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

1	扫雪设备类型 Types of clearing equipment	All seasons Not applicable
2	扫雪顺序 Clearance priorities	Not applicable
3	备注 Remarks	Nil

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

1	停机坪道面和强度 Apron surface and strength	Surface:	Cement concrete
		Strength:	PCN 87/R/B/W/T (stands Nr.100-101, 109-111, 121-122) PCN 84/R/B/W/T (stands Nr.13, 13A, 13B, 14, 14A, 14B) PCN 75/R/B/W/T (stands Nr.15-18) PCN 73/R/B/W/T (stands Nr.102-108, 112-120, 123-134, 201-228, 301-329) PCN 60/R/B/W/T (stands Nr.1-12)
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	Width:	18m: J4; 23m: A(BTN A1&Q;north of J5), B, C, D, Q(west of A), J5, J6,J7; 27m: B4, B8; 30m: A(south of A1), A2, A4, A6, B9, K, N, W; 34m: A(BTN Q&J5); 37m: A1, B3, Q(east of A); 44m: B6, C3-C8, C10(west of center line of TWY D), R
		Surface:	Cement concrete
		Strength:	PCN 87/R/B/X/T (A1, N, W) PCN 87/R/B/W/T (A(north of A6), B, C, D, K, B3, B6, B9, C3-C8, C10(west of center line of TWY D), R) PCN 84/R/B/X/T (J5) PCN 80/R/B/X/T (A2, Q(east of A), A4, A6) PCN 76/F/B/W/T (A(south of A6)) PCN 75/R/B/W/T (J6) PCN 73/R/B/W/T (B4, B8, J7) PCN 60/R/B/X/T (Q(west of A), J4)
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	

ZGNN 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 / 停放位置引导系统的使用 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/RWY, and at all holding positions. Guide lines at all TWYs and aprons. Aircraft stand signs at all stands except Nr.211-218, 318, 321 Refer AD2.24-2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K for Visual Docking Guidance System(stands Nr.101-132) Marshaller is available for other stands.	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	RWY markings	RWY designation, TDZ, center circle, THR, center line, edge line, aiming point
		RWY lights	Center line, edge line, RWY end, THR,wing bar.
		TWY markings	Intermediate holding position, RWY holding positions(pattern B for south&north end of TWY B&C), TWY shoulders,center line, edge line, 'No entry' signs, taxiing guidance board
		TWY lights	Edge line,reflector stick, center line, RWY guard lights,intermediate holding positions lights(B, B6, C, C3-C8, D, J7, T3, T5)
3	停止排灯 Stop bars	Nil	
4	备注 Remarks	Nil	

ZGNN AD 2.10 机场障碍物 Aerodrome obstacles

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)**	**场压高 AAL Height(m)**	**影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected**
1	MT	006	8670	194.6	
2	TWR	029	8221	199.3	Circling CAT C
3	MT	030	9450	202.1	RWY23/ Initial approach RWY05/ Departure
4	MT	032	8750	168	
5	TWR	036	9762	209.5	RWY23/VOR/DME final approach
6	MT	036	9667	177.7	
7	MT	038	12400	168.4	
8	MT	047	3170	16.6	
9	TWR	048	5917	35.6	RWY 23/ GP INOP final approach SDF
10	TWR	049	6679	44.5	

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)	场压高 AAL Height(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
11	MT	055	11400	108	RWY23/ GP INOP final approach SDF
12	MT	057	12500	110.9	RWY05/ Departure
13	BLDG	063	2231	12.9	
14	Lightning rod	064	8787	48.9	
15	Lightning rod	064	8827	54.0	
16	*MT	066	5000	51.9	RWY23/VOR/DME final approach
17	*MT	071	6000	50	
18	Lightning rod	082	5860	61.8	
19	*MT	102	10100	218.8	Circling CAT D
20	*New control TWR	140	1149	90.9	Circling CAT A, B
21	MT	166	7950	123	
22	MT	232	8965	13.3	RWY05/GP INOP final approach
23	MT	240	15000	156.2	
24	MT	240	7500	53	RWY05/VOR/DME final approach
25	MT	242	3900	11	
26	MT	246	8550	114	RWY23/Departure
27	MT	256	6500	92.8	
28	MT	292	4120	98	
29	MT	302	9000	268	
30	MT	302	4700	224	
31	MT	306	2400	72	
32	MT	307	4350	191	
33	MT	314	655	150	
34	*TWR	316	655	32	
35	MT	317	4000	137	
36	*BLDG	318	650	21	
37	MT	321	2870	118	
38	*Antenna	332	1530	61.3	
39	*TWR	342	1050	48	
40	*BLDG	343	597	57.7	
41	MT	349	6850	206.7	RWY05/ Departure

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)	场压高 AAL Height(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
Remarks:					

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
1	*BLDG	022	29460	166.8	
2	*TWR	034	29590	285.5	
3	*TWR	034	31388	286.4	
4	*BLDG	034	25480	182.8	
5	*BLDG	042	48400	287.8	
6	*BLDG	042	30580	235.8	
7	TWR	046	19840	211.9	
8	TWR	046	19776	211	
9	TWR	047	19435	203.9	
10	*TWR	050	30185	314.2	
11	MT	050	30000	288	
12	MT	136	19200	344.3	RWY23/ Initial approach
13	MT	137	35000	427	
14	MT	203	28000	380	
15	MT	206	43000	526	
16	MT	219	16162	274.6	
17	MT	232	17500	303.2	RWY05/ Intermediate approach
18	MT	235	20000	184.7	
19	MT	237	21000	312	
20	MT	246	25660	380	RWY05/ Initial approach
21	MT	357	33000	382	RWY23/ Initial approach
Remark: 1. No significant obstacles in the take-off flight path area.					

ZGNN 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	相关气象室的名称 Associated MET Office	Guangxi ATMB MET Office
2	气象服务时间、服务时间以外的责任气象室 Hours of service, MET Office outside hours	H24 --
3	负责编发 TAF 的办公室 ; 有效期 Office responsible for TAF preparation,Periods of validity	Guangxi ATMB MET Office 9 HR, 24 HR;
4	着陆预报类型、发布间隔 Type of landing forecast, Interval of issuance	Trend 1 HR
5	所提供的讲解 / 咨询服务 Briefing/consultation provided	P, T
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, airport weather report, forecast, AWOS real-time data, automatic weather data
8	提供信息的辅助设备 Supplementary equipment available for providing information	FAX, MET Service Terminal,significant weather monitoring and warning system, Civi MET Database, AWOS2000 auxiliary system,Airport meteorological station forecasted and distributed system,Aviation airport weather forecasted and compliled system
9	接收气象信息的空中交通服务单位 ATS units provided with information	Nanning TWR, Nanning ACC, flight service office
10	观测类型与频率 / 自动观测设备 Type & frequency of observation/ Automatic observation equipment	24H, 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)	SFC wind sensors: RWY05:120m E of RCL, 465m inward THR; RWY23: 120m E of RCL, 310m inward THR; RWY center:120 E of RCL, 1600m inward THR23. RVR EQPT: A:120m E of RCL, 475m inward THR05; B: 115m E of RCL, 1600m inward THR23; C: 120m E of RCL, 350m inward THR23 Ceilometer: RWY05:115m E of RCL, 460m inward THR05; RWY23: 115m E of RCL, 305m inward THR23.
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	TEL：86-771-2886565

ZGNN AD 2.12 跑道物理特征 Runway physical characteristics

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/SWY surface	着陆入口坐标及高程异常 THR coordinates and geoid undulation	跑道着陆入口标高, 精密进近跑道接地地带最高标高 THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
05	047° GEO 048° MAG	3200 × 45	87/R/B/X/T Concrete/-	Nil	THR 127.1m TDZ 127m
23	227° GEO 228° MAG	3200 × 45	87/R/B/X/T Concrete/-	Nil	THR 126.5m TDZ 128m
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)	无障碍物地带 OFZ	跑道端安全区长宽 RWY end safety area dimensions (m)
7	8	9	10	11	12
RWY 05/23 - 0.19%(730.5) 0.11%(505.5) - 0.11%(518) 0.25%(946) - 0.32%(500)	Nil	Nil	3320 × 300	Nil	240 × 120m
RWY 05/23 - 0.19%(730.5) 0.11%(505.5) - 0.11%(518) 0.25%(946) - 0.32%(500)	Nil	Nil	3320 × 300	Nil	240 × 120m
Remarks:					

ZGNN AD 2.13 公布距离 Declared distances

跑道代号 RWY Designator	可用起飞滑跑距离 TORA (m)	可用起飞距离 TODA (m)	可用加速停止距离 ASDA (m)	可用着陆距离 LDA (m)	备注 Remarks
05	3200	3200	3200	3200	Nil
05	2800	2800	2800	3200	Enter FM B3
05	2900	2900	2900	3200	Enter FM A1
23	3200	3200	3200	3200	Nil
Remarks:					

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

跑道代号 RWY Designator	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
05	CAT I* 900m LIH	Green Yes	PAPI Left/3°	Nil	3200m** spacing 30m	3200m*** spacing 60m	Red	Nil
23	CAT I* 900m LIH	Green Yes	PAPI Left/3°	Nil	3200m** spacing 30m	3200m*** spacing 60m	Red	Nil
Remarks: * SFL ** 0-2300m White VRB LIH, 2300-2900m Red/White VRB LIH, 2900m-3200m Red VRB LIH *** 0-2600m White VRB LIH, 2600-3200m Yellow VRB LIH								

ZGNN AD 2.15 其它灯光 , 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	着陆方向指示器位置和灯光 ; 风速表位置和灯光 LDI location and LGT, Anemometer location and LGT	WDI with lights: RWY05:120m W of RCL, 360m inward RWY23: 120m W of RCL, 250m inward
3	滑行道边灯和中心线灯光 TWY edge and center line lighting	Blue edge line lights(bend) or reflector sticks(straight line) Green center line light for all TWYs
4	备份电源 / 转换时间 Secondary power supply/switch-over time	Dual feed, Diesel driven generators Switch-over time: 15 sec
5	备注 Remarks	Nil

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

1	TLOF 坐标或 FATO 入口坐标及高程异常 Coordinates TLOF or THR of FATO Geoid undulation	Nil
2	TLOF 和 / 或 FATO 标高 (m) TLOF and/or FATO elevation (m)	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

ZGNN AD 2.17 空中交通服务空域 ATS airspace

名称 Designation	横向界限 Lateral limits	垂直界限 Vertical limits	备注 Remarks
Nanning tower control area	A circle with radius 15km centered at ARP	(600m) and below	
Fuel dumping area	N22 39.0E107 54.0-N22 48.0E108 29.0-N22 13.0E108 37.0-N22 09.0E107 58.0-N22 39.0E107 54.0	Above 4000m	
Altimeter setting region and TL/TH	By ATC	TL 3600m TH (3000)m	

ZGNN 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		126.25		
APP	Nanning Approach	121.25 (119.85) AP01	H24	Nil
APP	Nanning Approach	119.075 (119.85) AP02	BY ATC	Nil
TWR	Nanning Tower	130.35(118.35)	H24	

服务名称 Service Designation	呼号 Call sign	频率 Frequency (MHz)	工作时间 Hours of operation	备注 Remarks
GND	Nanning Ground	121.75	HO	
EMG		121.5	H24	

ZGNN 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
Nanning VOR/DME	WUY	112.4MHz CH 71X	N22° 35.1′ E108° 08.9′ 228° MAG / 2012m FM THR05	143m	BTN -0.5-0.3NM on R228° U/S for VOR; BTN -0.5-0NM on R228° U/S for DME
LOC 05 ILS CAT I	IXU	108.9MHz	310m FM RWY05 end		
GP 05		329.3MHz	120m E of RCL, 337m FM THR05		Angle 3°, RDH 17.9m
DME 05	IXU	CH 26X (108.9MHz)		129m	Co-located with GP 05
LOC 23 ILS CAT I	IUY	110.9MHz	310m FM RWY23 end,		
GP 23		330.8MHz	120m E of RCL 275m FM THR23		Angle 3°, RDH 16.4m
DME 23	IUY	CH 46X (110.9MHz)		133m	Co-located with GP 23
Remarks: Nil					

ZGNN AD 2.20 本场飞行规定

1. 机场使用规定

1.1 禁止未安装二次雷达应答机的航空起降;

ZGNN AD 2.20 Local traffic regulations

1. Airport operations regulations

1.1 Takeoff/landing of aircraft without SSR transponder are forbidden;

1.2 所有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 Each and every technical test flight shall be filed in advance and conducted only after clearance has been obtained from ATC;

1.3 可使用最大机型：B747及其同类机型。

1.3 Maximum aircraft to be available: B747 and equivalent.

2. 跑道和滑行道的使用

2. Use of runways and taxiways

2.1 进港航空器与管制员脱波后，应立即与南宁现场（131.3MHz)建立联系，可以通过南宁现场（131.3MHZ）申请引导车和拖车服务及其它地面保障服务;

2.1Arrival aircraft shall contact Nanning Operation Control Center(131.3MHz) immediately when leave TWR frequency. Follow-me vehicle and towing service and other ground services are available via 131.3MHZ;

2.2 航空器脱离跑道后严格按照管制员指令滑行到指定道口，在指定道口跟随引导车滑行至停机位;

2.2 Aircraft shall taxi to the assigned position by following ATC instructions after vacating RWY, then taxi to the stand following the follow-me vehicle;

2.3 禁止航空器在滑行道上做180° 转弯;

2.3 180° turnaround on TWY is forbidden for all aircraft;

2.4 滑行道和滑行线的翼展限制 /Wing span limits for TWYs and taxiing line

滑行线 /Taxiing line	翼展限制 /Span limits
C7,C8(east of center line of TWY D);T9; T1(north of stand Nr.7)	⩽ 65m
East of center line of TWY D:B6,C3,C4;C9,T1(south of stand Nr.7); T8	⩽ 52
C5,C6,C10(east of center line of TWY D); T2-T7,T10-T11	⩽ 36
滑行道 /TWYs	翼展限制 /Span limits
A; A1; A2; A4; A6; B; B3; B4; B8; B9; C; west of center line of TWY D:B6, C3-C8, C10; D; J5; K; N; Q(east of TWY A); R; W	⩽ 65
Q(west of TWY A)	⩽ 52
J4,J6,J7	⩽ 36

2.5 从B型等待线(CAT I) 完成进跑道的时间不超过90s,航空器若不能按此规定完成,应当及时通知管制员。

2.5 Aircraft should finish entering RWY from holding line pattern B(CAT I) in less than 90 seconds, otherwise contact ATC as soon as possible.

2.6 若航空器需要穿越跑道,限定航空器完成穿越跑道的时间不超过50s,航空器若不能按此规定完成,应当及时通知管制员。

2.6 Aircraft should finish crossing RWY in less than 50 seconds, otherwise contact ATC as soon as possible.

2.7 航空器在D滑及3号机坪内的滑行规定:

2.7.1 进港航空器由ATC 指挥滑行至D滑入口, 由引导车引导至指定机位;

2.7.2 离港航空器由 ATC 负责发布推出和开车指令,机组收到管制员滑出指令后,航空器跟随引导车滑行至D滑出口,然后由ATC继续指挥。

2.8 机场冲突多发地带运行要求

机场冲突多发地带位置见机场图 ZGNN AD2.24-1。

为减少运行差错 , 降低地面冲突和跑道入侵事件的发生概率 , 在机场活动区内运行的航空器需严格按照下列要求运行。

2.8.1 HS1和HS2:05号跑道ILS保护区。

使用05号跑道起降时,管制员将指令从3号机坪滑出的航空器在ILS保护区等待线外(即一类盲降等待点) 等待。航空器需穿越此区域进入使用跑道前,必须得到塔台管制员的许可。

2.8.2 HS3和HS4:23号跑道ILS保护区。

使用23号跑道起降时,管制员将指令从3号机坪滑出的航空器在ILS保护区等待线外(即一类盲降等待点) 等待。航空器需穿越此区域进入使用跑道前,必须得到塔台管制员的许可。

2.9 非全跑道起飞运行规定

南宁机场05号跑道实施非全跑道起飞，如不能优先使用非全跑道起飞，请航空器驾驶员在申请放行许可时告知塔台。机组注意收听通播内容。

2.10 在转换使用跑道方向过程中，短时使用跑道顺风分量超过3m/s但不大于5m/s时，管制员收到该信息应及时通知机组。机组应根据机型性能或运行手册是否使用管制员安排的顺风跑道起飞或着陆，并将决定通知管制员。

3. 机坪和机位的使用

3.1 进入机坪的航空器必须由地面引导车引导;

2.7 Rules for aircraft taxiing on TWY D and apron Nr.3:

2.7.1 Landing aircraft should taxi follow ATC instruction to the entry of TWY D, then follow follow-me vehicle to parking stands.

2.7.2 After getting engine run-up and push back clearance, departing aircraft should taxi follow follow-me vehicle to the exit of TWY D, then follow ATC instruction to RWY.

2.8 Hot spot Procedure

Refer acrodrome chart ZGNN AD2.24-1 for hot spot positions.

For the purpose of reducing errors that lead to ground conflicts and runway incursions, aircraft operating within the maneuvering area must follow the requirements below:

2.8.1 HS1 and HS2: RWY05 ILS Sensitive Area.

When using RWY05 for landing or departing, aircraft shall hold at holding position pattern B after exiting apron Nr.3 with ATC construction.

Cross these area without ATC clearance is strictly forbidden.

2.8.2 HS3 and HS4: RWY23 ILS Sensitive Area.

When using RWY23 for landing or departing, aircraft shall hold at holding position pattern B after exiting apron Nr.3 with ATC construction.

Cross these area without ATC clearance is strictly forbidden.

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2.9 Partial runway taking-off regulations

RWY05 is conducting intersection departure. If aircraft cannot conduct intersection departure in preference, inform ATC when applying for delivery clearance. Flightcrew please pay attention to ATIS.

2.10 During changing the direction of RWY, if downwind speed is more than 3m/s and not exceeding 5m/s, ATC shall immediately inform flight crew the wind condition.The crew shall decide whether they use the downwind runway or not, according to aircraft performance limit and inform ATC.

3. Use of aprons and parking stands

3.1 Landing aircraft shall follow the guidance of follow-me vehicle to taxi into the parking stand;

3.2 试车航空器需在机场运行指挥中（131.3MHz）指定的地点并经塔台同意后进行，试车航空器滑行路线以塔台指令为准；

3.2 Engine run-ups are subject to Tower Control clearance, and shall be carried out at a designated location assigned by Operation Control Center(131.3MHz);

3.3 本场有三个停机坪，在机坪之间或停机位之间牵引航空器需事先得到运行指挥中心和塔台的许可；

3.3 Three aprons at this aerodrome. Towing aircraft BTN aprons or parking stands shall obtain the clearance from Tower Control and Operation Control Center in advance;

3.4 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 /Wing span limits for aircraft	滑入滑出方式 /Enter or Exit
Nr. 13-14, 101, 109-111, 121-122	65m	Taxi in Push back
Nr.315-317	52m	Taxi in Push back
Nr.100, 102-103, 106, 123-126	48m	Taxi in Push back
Nr. 1-7	47.57m	Taxi in Push back
Nr.13A, 13B, 14A, 14B, 15-18, 104-105, 107-108, 112-120, 127-134, 323-324	36m	Taxi in Push back
Nr. 8-10, 201-228, 301-314, 320-322, 325-329	36m	Taxi in and out
Nr. 12	24m	Taxi in Push back
Nr.11, 318-319	24m	Taxi in and out

3.5 航空器不能同时使用的停机位 / Stands can not be used simultically:

Stands in use	Stands can not be used simultically
Nr.13	Nr.13A and 13B and 14A
Nr.14	Nr.14A and 14B
Nr.13A or 13B or 14A	Nr.13
Nr.14A or 14B	Nr.14

4. 进、离场管制规定

4. Air traffic control regulations

无

Nil

5. 机场的 II/III 类运行

5. CAT II/III operations at AD

无

Nil

6. 除冰规则

6. Rules for deicing

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

ZGNN AD 2.21 噪音限制规定及减噪程序

ZGNN AD 2.21 Noise restrictions and Noise abatement procedures

1. 起飞减噪程序

在保证安全超障和飞行程序最低爬升梯度的条件下，执行如下起飞减噪程序。由于非管制原因不执行减噪程序，飞行员必须在起飞前告知管制员并说明原因(特殊飞行除外)。

1.1 在航空器起飞性能运行允许的情况下,尽可能使用减推力起飞;

1. Noise abatement procedures for departure

In condition of complying with the requirements of obstacle clearance and climb gradient required by flight procedure, the following noise abatement climb procedures shall be implemented. If the procedures can not be implemented due to any reason except ATC, pilot shall inform the controller with a reasonable explanation(except for special flight).

1.1 The derated take-off is strongly recommended if the take-off performance of aircraft permit;

1.2 在高度450米时,起始爬升速度V2+20km/h(10海里/小时),减小功率和俯仰角,保持可靠襟翼和速度继续爬升;

1.3 高度900米以上时,平稳加速至航路爬升速度,按规定收襟翼/缝翼。

1.2 At altitude 450m, with a climb speed of V2+20km/h(10kt), reduce engine power/thrust and angle of pitch, maintain a speed with flaps and slats in the take-off configuration;

1.3 At altitude 900m or above, maintain a positive rate of climb, accelerate smoothly to en-route climb speed and retract flaps/slats as prescribed.

ZGNN AD 2.22 飞行程序

ZGNN 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

起落航线在跑道东南侧， A、 B 类航空器高 300 米， C、 D类航空器高600米。

2. Traffic circuits

Traffic circuits shall be made to the southeast of RWY, at the height of 300m for aircraft CAT A/B, and 600m for aircraft CAT C/D.

3. 仪表飞行程序

严格按照航图中公布的进、离场程序飞行。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. 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

南宁塔台管制区域内实施雷达管制。航空器最小水平间隔为6千米。

4. Radar procedures and/or ADS-B procedures

Radar control within Nanning Tower Control Area has been implemented. The minimum horizontal radar separation is 6km.

5. 无线电通信失效程序

无

5. Radio communication failure procedures

Nil

6. 目视飞行程序

6. Procedures for VFR flights

机场塔台（进近）管制区正式实施目视间隔和目视进近运行，此运行方式须得到ATC许可。

With the prior permission of ATC, visual separation and visual approach can be implemented within TWR control area and APP control area.

7. 目视飞行航线

无

7. VFR route

Nil

8. 目视参考点

无

8. Visual reference point

Nil

9. 其它规定

无

9. Other regulations

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
NN402	N230130 E1083918	NN502	N223900 E1083412
NN403	N223736 E1082200	NN503	N222142 E1075336
NN404	N221724 E1073106	NN504	N224842 E1083806
NN406	N230030 E1083130	NN506	N225454 E1083154
NN407	N225530 E1083842	NN511	N222500 E1081054
NN408	N224512 E1083024	NN512	N223448 E1082212
NN411	N224542 E1090018	NN513	N224248 E1083118
NN412	N222924 E1090206	NN514	N224900 E1082506
NN413	N2242.8 E10917.1	NN520	N222856 E1080151
NN414	N225306 E1082524	NN521	N223200 E1081354
NN415	N224800 E1083242	NN551	N225018 E1081548
NN422	N222748 E1080906	NN552	N222112 E1083736
NN433	N224706 E1081218	NN553	N224030 E1082542
NN451	N225500 E1080142	NN558	N230336 E1083248

NN452	N224912 E1074118	NN559	N225048 E1082206
NN454	N223348 E1075654	NN620	N224524 E1082045
NN456	N221618 E1082524	NN621	N223236 E1081554
NN457	N222412 E1080636	BHY	N2135.2 E10925.9
NN458	N225836 E1084642	BSE	N2353.5 E10638.7
NN459	N223318 E1083342	GYA	N2304.2 E11229.2
NN461	N223230 E1083924	LBN	N2345.8 E10908.8
NN462	N223142 E1084512	LON	N2221.4 E10652.1
NN463	N223948 E1084630	WUY	N2235.1 E10808.9
NN464	N224030 E1084042	P1	N2225.6 E10902.4
NN466	N224118 E1083454	ALEKI	N2151.0 E10905.7
NN467	N224218 E1082730	NIKUK	N2207.0 E10845.1
NN468	N225830 E1084930	OSIKA	N2251.3 E11033.2
NN469	N222900 E1073212	SARUG	N2314.8 E10842.4
NN471	N230230 E1082900	UVUNO	N2301.8 E10738.5
NN472	N224206 E1080630	VAPNA	N2241.7 E10907.3
NN473	N223512 E1081918	XEREN	N2225.6 E10715.3
NN501	N222342 E1081636		

Path Terminator	Waypoint ID	Fly over	Magnetic Course (°)	Turn Direction	Altitude (m)	IAS (km/h)	VPA/ TCH	Navigation Specification
RWY05 Departure LBN-09D(BY ATC)								
CA			048		478			RNAV1
DF	NN402							RNAV1
TF	SARUG							RNAV1
TF	LBN							RNAV1
RWY05 Departure GYA-09D(BY ATC)								
CA			048		478			RNAV1
DF	NN403			R		MAX460		RNAV1
TF	VAPNA							RNAV1
TF	NN413							RNAV1
TF	OSIKA							RNAV1

TF	GYA							RNAV1
RWY05 Departure BHY-09D(BY ATC)								
CA			048		478			RNAV1
DF	NN403			R		MAX460		RNAV1
TF	NIKUK							RNAV1
TF	ALEKI							RNAV1
TF	BHY							RNAV1
RWY05 Departure LON-09D(BY ATC)								
CA			048		478			RNAV1
DF	NN403			R		MAX460		RNAV1
TF	NN457							RNAV1
TF	NN404							RNAV1
TF	XEREN							RNAV1
TF	LON							RNAV1
RWY05 Departure BSE-09D(BY ATC)								
CA			048		478			RNAV1
DF	NN433			L		MAX460		RNAV1
TF	UVUNO							RNAV1
TF	BSE							RNAV1
RWY05 Departure LBN-08D								
CA			048		478			RNAV1
DF	NN414			L		MAX460		RNAV1
TF	NN406							RNAV1
TF	SARUG							RNAV1
TF	LBN							RNAV1
RWY05 Departure GYA-08D								
CA			048		478			RNAV1
DF	NN414			L		MAX460		RNAV1
TF	NN406							RNAV1
TF	NN407							RNAV1
TF	NN411							RNAV1
TF	VAPNA							RNAV1

TF	NN413							RNAV1
TF	OSIKA							RNAV1
TF	GYA							RNAV1
RWY05 Departure BHY-08D								
CA			048		478			RNAV1
DF	NN414			L		MAX460		RNAV1
TF	NN406							RNAV1
TF	NN407							RNAV1
TF	NN411							RNAV1
TF	NN412							RNAV1
TF	P1							RNAV1
TF	ALEKI							RNAV1
TF	BHY							RNAV1
RWY05 Departure LON-08D								
CA			048		478			RNAV1
DF	NN414			L		MAX460		RNAV1
TF	NN406					MAX460		RNAV1
TF	NN407					MAX460		RNAV1
TF	NN415					MAX460		RNAV1
TF	NN408							RNAV1
TF	WUY				@6600			RNAV1
TF	XEREN							RNAV1
TF	LON							RNAV1
RWY05 Departure BSE-08D								
CA			048		478			RNAV1
DF	NN414			L		MAX460		RNAV1
TF	NN406					MAX460		RNAV1
TF	NN407					MAX460		RNAV1
TF	NN415					MAX460		RNAV1
TF	NN408							RNAV1
TF	WUY				@6600			RNAV1
TF	UVUNO							RNAV1

TF	BSE							RNAV1
RWY23 Departure LBN-19D(BY ATC)								
CA			228		428			RNAV1
DF	NN422			L		MAX460		RNAV1
TF	NN501							RNAV1
TF	NN502							RNAV1
TF	NN458							RNAV1
TF	SARUG							RNAV1
TF	LBN							RNAV1
RWY23 Departure GYA-19D(BY ATC)								
CA			228		428			RNAV1
DF	NN422			L		MAX460		RNAV1
TF	NN501							RNAV1
TF	NN502							RNAV1
TF	VAPNA							RNAV1
TF	NN413							RNAV1
TF	OSIKA							RNAV1
TF	GYA							RNAV1
RWY23 Departure BHY-19D(BY ATC)								
CA			228		428			RNAV1
DF	NN422			L		MAX460		RNAV1
TF	NN501							RNAV1
TF	NIKUK							RNAV1
TF	ALEKI							RNAV1
TF	BHY							RNAV1
RWY23 Departure LON-19D(BY ATC)								
CA			228		428	MAX460		RNAV1
DF	NN503							RNAV1
TF	NN404							RNAV1
TF	XEREN							RNAV1
TF	LON							RNAV1
RWY23 Departure BSE-19D(BY ATC)								

CA			228		428			RNAV1
DF	NN454			R		MAX460		RNAV1
TF	NN452							RNAV1
TF	UVUNO							RNAV1
TF	BSE							RNAV1
RWY23 Departure LBN-18D								
CA			228		428			RNAV1
DF	NN511			L		MAX460		RNAV1
TF	NN512				@1628			RNAV1
TF	NN513							RNAV1
TF	NN504							RNAV1
TF	NN458							RNAV1
TF	SARUG							RNAV1
TF	LBN							RNAV1
RWY23 Departure GYA-18D								
CA			228		428			RNAV1
DF	NN511			L		MAX460		RNAV1
TF	NN512				@1628			RNAV1
TF	NN513							RNAV1
TF	NN504							RNAV1
TF	NN411							RNAV1
TF	VAPNA							RNAV1
TF	NN413							RNAV1
TF	OSIKA							RNAV1
TF	GYA							RNAV1
RWY23 Departure BHY-18D								
CA			228		428			RNAV1
DF	NN511			L		MAX460		RNAV1
TF	NN512				@1628			RNAV1
TF	NN513							RNAV1
TF	NN504							RNAV1
TF	NN411							RNAV1

TF	NN412							RNAV1
TF	P1							RNAV1
TF	ALEKI							RNAV1
TF	BHY							RNAV1
RWY23 Departure LON-18D								
CA			228		428			RNAV1
DF	NN511			L		MAX460		RNAV1
TF	NN512				@1628	MAX460		RNAV1
TF	NN513					MAX460		RNAV1
TF	NN504					MAX460		RNAV1
TF	NN506					MAX460		RNAV1
TF	NN514					MAX460		RNAV1
TF	WUY				@6600			RNAV1
TF	XEREN							RNAV1
TF	LON							RNAV1
RWY23 Departure BSE-18D								
CA			228		428			RNAV1
DF	NN511			L		MAX460		RNAV1
TF	NN512				@1628	MAX460		RNAV1
TF	NN513					MAX460		RNAV1
TF	NN504					MAX460		RNAV1
TF	NN506					MAX460		RNAV1
TF	NN514					MAX460		RNAV1
TF	WUY				@6600			RNAV1
TF	UVUNO							RNAV1
TF	BSE							RNAV1
RWY05 Arrival LBN-09A(BY ATC)								
IF	LBN							RNAV1
TF	SARUG							RNAV1
TF	NN471							RNAV1
TF	NN472				↑ 1628	MAX460		RNAV1
TF	NN454				↑ 1028	MAX380		RNAV1

RWY05 Arrival BHY-09A(BY ATC)								
IF	BHY							RNAV1
TF	ALEKI							RNAV1
TF	NIKUK							RNAV1
TF	NN456					MAX460		RNAV1
TF	NN457				↑ 1028	MAX380		RNAV1
RWY05 Arrival LON-09A(BY ATC)								
IF	LON							RNAV1
TF	XEREN							RNAV1
TF	NN469				↑ 1928	MAX460		RNAV1
TF	NN454				↑ 1028	MAX380		RNAV1
RWY05 Arrival BSE-09A(BY ATC)								
IF	BSE							RNAV1
TF	UVUNO							RNAV1
TF	NN452				↑ 2228	MAX460		RNAV1
TF	NN454				↑ 1028	MAX380		RNAV1
RWY05 Arrival LBN-08A								
IF	LBN							RNAV1
TF	SARUG							RNAV1
TF	NN468							RNAV1
TF	NN463					MAX460		RNAV1
TF	NN464							RNAV1
TF	NN466							RNAV1
TF	NN467							RNAV1
TF	NN473				@1628			RNAV1
TF	NN457				↑ 1028	MAX380		RNAV1
RWY05 Arrival BHY-08A								
IF	BHY							RNAV1
TF	ALEKI							RNAV1
TF	P1							RNAV1
TF	NN412							RNAV1
TF	NN463					MAX460		RNAV1

TF	NN464							RNAV1
TF	NN466							RNAV1
TF	NN467							RNAV1
TF	NN473				@1628			RNAV1
TF	NN457				↑ 1028	MAX380		RNAV1
RWY05 Arrival LON-08A								
IF	LON							RNAV1
TF	XEREN							RNAV1
TF	WUY				@6900			RNAV1
TF	NN459					MAX460		RNAV1
TF	NN461							RNAV1
TF	NN462							RNAV1
TF	NN463							RNAV1
TF	NN464							RNAV1
TF	NN466							RNAV1
TF	NN467							RNAV1
TF	NN473				@1628			RNAV1
TF	NN457				↑ 1028	MAX380		RNAV1
RWY05 Arrival BSE-08A								
IF	BSE							RNAV1
TF	UVUNO							RNAV1
TF	WUY				@6900			RNAV1
TF	NN459					MAX460		RNAV1
TF	NN461							RNAV1
TF	NN462							RNAV1
TF	NN463							RNAV1
TF	NN464							RNAV1
TF	NN466							RNAV1
TF	NN467							RNAV1
TF	NN473				@1628			RNAV1
TF	NN457				↑ 1028	MAX380		RNAV1
RWY05 Holding (outbound time:1min)								

HM	NN452	Y	138	R	2228	MAX460		RNAV1
HM	NN456	Y	296	L	2228	MAX460		RNAV1
HM	NN463	Y	280	R	2828	MAX460		RNAV1
HM	NN469	Y	080	L	1928	MAX460		RNAV1
HM	NN471	Y	227	R	2828	MAX460		RNAV1
HM	NN521	Y	223	L	1028	MAX380		RNAV1
RWY05 Transition (from NN454)								
IF	NN454				↑ 1028	MAX380		RNAV1
TF	NN520				@727			RNAV1
RWY05 Transition (from NN457)								
IF	NN457				↑ 1028	MAX380		RNAV1
TF	NN520				@727			RNAV1
RWY05 Missed approach								
CA			048		427			RNAV1
DF	NN521			R	1028			RNAV1
RWY23 Arrival BHY-19A(BY ATC)								
IF	BHY							RNAV1
TF	ALEKI							RNAV1
TF	NIKUK							RNAV1
TF	NN552					MAX460		RNAV1
TF	NN553				↑ 1028	MAX380		RNAV1
RWY23 Arrival LON-19A(BY ATC)								
IF	LON							RNAV1
TF	XEREN							RNAV1
TF	NN469				↑ 1928	MAX460		RNAV1
TF	NN454							RNAV1
TF	NN551				↑ 1028	MAX380		RNAV1
RWY23 Arrival BSE-19A(BY ATC)								
IF	BSE							RNAV1
TF	UVUNO							RNAV1
TF	NN451				↑ 2828	MAX460		RNAV1
TF	NN551				↑ 1028	MAX380		RNAV1

RWY23 Arrival LBN-18A								
IF	LBN							RNAV1
TF	SARUG							RNAV1
TF	NN558				↑ 2228	MAX460		RNAV1
TF	NN559				↑ 1028	MAX380		RNAV1
RWY23 Arrival BHY-18A								
IF	BHY							RNAV1
TF	ALEKI							RNAV1
TF	P1							RNAV1
TF	NN412							RNAV1
TF	NN463					MAX460		RNAV1
TF	NN464							RNAV1
TF	NN467				↑ 1028	MAX380		RNAV1
RWY23 Arrival LON-18A								
IF	LON							RNAV1
TF	XEREN							RNAV1
TF	WUY				@6900			RNAV1
TF	NN461					MAX460		RNAV1
TF	NN462							RNAV1
TF	NN463							RNAV1
TF	NN464							RNAV1
TF	NN467				↑ 1028	MAX380		RNAV1
RWY23 Arrival BSE-18A								
IF	BSE							RNAV1
TF	UVUNO							RNAV1
TF	WUY				@6900			RNAV1
TF	NN461					MAX460		RNAV1
TF	NN462							RNAV1
TF	NN463							RNAV1
TF	NN464							RNAV1
TF	NN467				↑ 1028	MAX380		RNAV1
RWY23 Holding (outbound time:1min)								

HM	NN451	Y	112	L	2828	MAX460		RNAV1
HM	NN463	Y	280	R	2228	MAX460		RNAV1
HM	NN469	Y	080	L	1928	MAX460		RNAV1
HM	NN552	Y	332	R	2828	MAX460		RNAV1
HM	NN558	Y	219	L	2228	MAX460		RNAV1
HM	NN621	Y	051	R	1028	MAX380		RNAV1
RWY23 Transition (from NN559)								
IF	NN559				↑ 1028	MAX380		RNAV1
TF	NN620				@827			RNAV1
RWY23 Transition (from NN467)								
IF	NN467				↑ 1028	MAX380		RNAV1
TF	NN620				@827			RNAV1
RWY23 Transition (from NN551)								
IF	NN551				↑ 1028	MAX380		RNAV1
TF	NN620				@827			RNAV1
RWY23 Transition (from NN553)								
IF	NN553				↑ 1028	MAX380		RNAV1
TF	NN620				@827			RNAV1
RWY23 Missed approach								
CA			228		427			RNAV1
DF	NN621			L	1028			RNAV1

ZGNN AD 2.23 其它资料

机场范围内有鸟类活动。秋季以候鸟为主，其中4、5月和10、11月有大群金腰燕、家燕在飞行区外活动。7、8和9月有一些中、小型水鸟如鹭科、秧鸡科鸟类在飞行区外活动，日活动时间长至23点左右。机场当局采取了驱赶措施，以减少鸟群活动。

ZGNN AD 2.23 Other information

Activities of bird flocks take place in the vicinity of the aerodrome. The migration birds are predominant in autumn, April, May, October and November, there are a large group of gold swallow, barn swallows in flight outside activities areas. July, August and September, some of the medium and small water birds such as ardeidae, rallidae birds in flight outside activities areas, activities until to 23pm. Aerodrome Authority resorts to dispersal methods to reduce bird activities.