ZGNN AD 2.1 机场地名代码和名称 Aerodrome location indicator(ICAO / IATA) and name

ZGNN/NNG-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	机场基准点与城市的位置关系 Direction and distance from city	214 °GEO, 27.8km from city center
3	机场标高、基准温度、低温均值 ELEV/Reference temperature/Mean low temperature	128.1 m/33.4℃(JUN)/11.4℃(DEC)
4	机场标高位置的大地水准面波幅 Geoid undulation at AD ELEV PSN	-
5	磁差（测量年份）及年变率 VAR(Year)/Annual change	1°39′W(2008)/-
6	机场管理部门、地址、电话、传真、AFS 地址、电子邮箱、网址 AD administration/Address/Telephone/Telefax/ AFS/ E-mail/Website	Nanning Wuxu International Airport CO.LTD. Nanning Wuxu Airport, Nanning, Guangxi Zhuangzu Autonomous Region, China Post code:530048 TEL:86-771-2885100 FAX:86-771-2885102 AFS:ZGNNYDYX Website:http://nn.airport.gx.cn/
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	机场开放时间 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	航空情报服务讲解室 AIS Briefing Office	H24

5	空中交通服务报告室 ATS Reporting Office	H24
6	气象服务讲解室 MET Briefing Office	H24
7	空中交通服务 Air Traffic Service	H24
8	加油服务 Fuelling	H24
9	地勤服务 Handling	H24
10	安保服务 Security	H24
11	除冰服务 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	conveyor belt truck (per package ≤240kg), luggage towing vehicle (≤20t), platform lift (≤14t), bulk cargo platform lorries (≤3t), container platform lorries (≤5t)
2	燃油牌号 Fuel types	Jet Fuel No.3
3	滑油牌号 Oil types	Nil
4	加油设施/能力 Fuelling facilities & Capacity	Refueling trucks: 20 litres/sec Hydrant dispenser, apron refueling well
5	除冰设施 De-icing facilities	Nil
6	过站航空器机库 Hangar space for visiting aircraft	Nil
7	过站航空器的维修设施 Repair facilities for visiting aircraft	Line maintenance available for aircraft type of A319-100, A320-200, A321-200, B737-600/700/800/900. Spare parts: airplane wheels, oil. Engine replacement service is unavailable.
8	备注 Remarks	AC/DC power unit, AC power unit, air supply unit, air conditioning unit, bridge power unit, bridge air conditioning equipment

ZGNN AD 2.5 旅客设施 Passenger facilities

1	宾馆 Hotels	At AD
2	餐饮 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	Fire fighting facilities: heavy-load foam tender, primary foam tender, medium-load foam tender, fire fighting command vehicle, heavy-duty water tank truck, disassembly rescue truck, logistics truck, rapid intervention vehicle Rescue equipment: uplift air cushion, mobile surface operation devices, fork, forklift, engineering rescue vehicle
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	Removal equipment: towing rack available for B747-400, A330 and below, steel cable, corresponding steel plate, uplift air cushion, etc.
4	备注 Remarks	Nil

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

1	可用季节及扫雪设备类型 Seasonal availability/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	道面 Surface	CONC
		强度 Strength	PCR 1130/R/C/W/T : APRON Nr.1 PCR 1080/R/B/W/T : APRON Nr.3
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	宽度 Width	44m : B6(west of center line of D), C3-C8(west of center line of D), C10(west of center line of D), R 37m : A1, B3, Q(east of A) 34m : A(BTN Q & J5) 30m : A(south of A1), A2, A4, A6, B9, K, N, W 27m : B4, B8 23m : A(BTN A1 & Q, north of J5), B, C, D, J5, Q(west of A) 18m : J4
		道面 Surface	CONC
		强度 Strength	PCR 1690/R/C/W/T : J4 PCR 1540/R/C/W/T : Q PCR 1470/R/B/W/T : A6, R PCR 1460/R/B/W/T : A4 PCR 1420/R/B/W/T : C7, C8 PCR 1410/R/B/W/T : W PCR 1390/R/B/W/T : K PCR 1380/R/B/W/T : J5, N PCR 1360/R/B/W/T : A(north of A6) PCR 1280/R/B/W/T : C6 PCR 1210/R/B/W/T : D PCR 1140/R/B/W/T : A1, B PCR 1090/R/B/W/T : C4 PCR 1080/R/B/W/T : C10 PCR 1070/R/B/W/T : B4 PCR 1050/R/B/W/T : B3, C3 PCR 1020/R/B/W/T : C5 PCR 940/R/B/W/T : B9, C(south of B3, north of C3) PCR 920/R/B/W/T : A2 PCR 910/R/B/W/T : A(south of A6) PCR 880/R/A/W/T : C(BTN B3 & C3) PCR 870/R/B/W/T : B6 PCR 710/R/B/W/T : B8
3	高度表校正点的位置及其标高 ACL location and elevation	Nil	

4	VOR 校正点 VOR checkpoints	Nil
5	INS 校正点 INS checkpoints	Nil
6	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. Taxiing guidance signs at all holding positions. Aircraft stand identification sign boards at stands Nr. 1-6, 8-13, 13A, 13B, 14, 14A, 14B, 100-134, 301-317, 319, 320, 322-329. Guide lines at all TWYs. Guide lines at all aprons. Visual docking guidance system at aircraft stands Nr. 101-132, Marshalling assistance for other aircraft stands.	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	跑道标志 RWY markings	THR, RWY designation, edge line, RWY center line, TDZ, aiming point
		跑道灯光 RWY lights	RTHL, WBAR, REDL, RCLL, RENL
		滑行道标志 TWY markings	Edge line, center line, TWY shoulder marking, No-entry, RWY holding position, intermediate holding position
		滑行道灯光 TWY lights	Edge line retroreflective markers, edge line lights, center line lights, No-entry bar(B4, B8) , intermediate holding position lights(B, B6, C, C3-C8, D)
3	停止排灯和跑道警戒灯 Stop bars and runway guard lights	Runway guard lights: A1, B3, B9, K, N, W	
4	其它跑道保护措施 Other runway protection measures	Nil	
5	备注 Remarks	TWY center line lights showing alternating green and yellow: TWYs A2,A4,A6 and Q(BTN the first light near the RWY and No-entry marking) ; TWYs A1, B3, B4, B8, B9, K, W and N(BTN the first light near the RWY and RWY holding position marking); TWY center line lights showing green: TWY Q(west of No-entry marking) ; TWYs B3, B9 and K(east of RWY holding position marking);TWYs A, B, B6, C, C3-C10, D, J4, J5, R, T1, T2 and T7-T11 Blue edge line lights(bend) or reflector markers(straight line)	

ZGNN AD 2.10 机场障碍物 Aerodrome obstacles

半径 15 千米内主要障碍物 (相对机场 ARP) Obstacles within a circle with a radius of 15km (centered on the ARP)					
障碍物名称 或编号 Obstacle ID/ Designation	障碍物类 型 Obstacle type	障碍物位置 磁方位(°)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或 (高) Elevation /(Height) (m)	障碍物标志，灯光 类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及 起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
1	2	3	4	5	6
MT 001	MT	006/8670	(194.6)		
Antenna 002	Antenna	029/8221	(199.3)		Circling CAT C
MT 003	MT	030/9450	(202.1)		RWY05 departure, RWY23 Initial approach
MT 004	MT	032/8750	(168)		
MT 005	MT	036/9667	(177.7)		
Antenna 006	Antenna	036/9762	(209.5)		RWY23 VOR/DME final approach
MT 007	MT	038/12400	(168.4)		
BLDG 008	BLDG	040/6641	(83.5)	LGT	
MT 009	MT	047/3170	(16.6)		
Antenna 010	Antenna	048/5917	(35.6)		RWY23 GP INOP final approach
Antenna 011	Antenna	049/6679	(44.5)		
FENCE 012	FENCE	053/2006	(4.1)	LGT	RWY05 Take-off path
MT 013	MT	055/11400	(108)		RWY23 GP INOP final approach
MT 014	MT	057/12500	(110.9)		RWY05 departure

半径 15 千米内主要障碍物 (相对机场 ARP)
Obstacles within a circle with a radius of 15km (centered on the ARP)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(º)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志，灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
BLDG 015	BLDG	063/2231	(12.9)		
Pole 016	Pole	064/8787	(48.9)		
Pole 017	Pole	064/8827	(54)		
MT 018	MT	066/5000	(51.9)	LGT	RWY23 VOR/DME final approach
MT 019	MT	071/6000	(50)	LGT	
Pole 020	Pole	082/5860	(61.8)		
MT 021	MT	102/10100	(218.8)	LGT	Circling CAT D
Control TWR 022	Control TWR	140/1149	(90.9)	LGT	Circling CAT A/B
MT 023	MT	166/7950	(123)		
FENCE 024	FENCE	220/1548	(6.2)	LGT	RWY23 Take-off path
MT 025	MT	232/8965	(13.3)		RWY05 GP INOP final approach
MT 026	MT	240/7500	(53)		RWY05 VOR/DME final approach
MT 027	MT	240/15000	(156.2)		
MT 028	MT	242/3900	(11)		
MT 029	MT	246/8550	(114)		RWY23 departure
MT 030	MT	256/6500	(92.8)		

半径 15 千米内主要障碍物 (相对机场 ARP)

Obstacles within a circle with a radius of 15km (centered on the ARP)

障碍物名称 或编号 Obstacle ID/ Designation	障碍物类 型 Obstacle type	障碍物位置 磁方位(º)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或 (高) Elevation /(Height) (m)	障碍物标志，灯光 类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及 起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
MT 031	MT	281/10913	(273.5)		Minimum surveillance altitude sector Nr.1
MT 032	MT	292/4120	(98)		
MT 033	MT	302/4700	(224)		
MT 034	MT	302/9000	(268)		
MT 035	MT	306/2400	(72)		
MT 036	MT	307/4350	(191)		
MT 037	MT	314/655	(150)		
Antenna 038	Antenna	316/655	(32)	LGT	
MT 039	MT	317/4000	(137)		
BLDG 040	BLDG	318/650	(21)	LGT	
MT 041	MT	321/2870	(118)		
Antenna 042	Antenna	332/1530	(61.3)	LGT	
WATER_TOWER 043	WATER_T OWER	342/1050	(48)	LGT	
BLDG 044	BLDG	343/597	(57.7)	LGT	
MT 045	MT	349/6850	(206.7)		RWY05 departure

半径 15 千米-50 千米内主要障碍物 (相对机场 ARP)
Obstacles between two circles with the radius of 15km and 50km (centered on the ARP)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(º)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志、灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
MT 046	MT	020/53473	503		Minimum surveillance altitude sector Nr.2
BLDG 047	BLDG	022/29460	167	LGT	
MT 048	MT	023/92766	1760		Minimum surveillance altitude sector Nr.4
MT 049	MT	032/83842	1050		Minimum surveillance altitude sector Nr.3
BLDG 050	BLDG	034/25480	183	LGT	
Antenna 051	Antenna	034/29590	286	LGT	
Antenna 052	Antenna	034/31388	287	LGT	
BLDG 053	BLDG	042/30580	236	LGT	
BLDG 054	BLDG	042/48400	288	LGT	
TRANSMISSION _LINE 055	TRANSM ISSION_L INE	046/19776	211		
TRANSMISSION _LINE 056	TRANSM ISSION_L INE	046/19840	212		
BLDG 057	BLDG	046/32079	500	LGT	RWY 23 ILS/DME approach, VOR/DME initial approach Minimum surveillance altitude sector Nr.6
TRANSMISSION _LINE 058	TRANSM ISSION_L INE	047/19435	204		

半径 15 千米-50 千米内主要障碍物 (相对机场 ARP)

Obstacles between two circles with the radius of 15km and 50km (centered on the ARP)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(º)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志、灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
BLDG 059	BLDG	047/32034	491	LGT	
MT 060	MT	050/30000	288		
TOWER 061	TOWER	050/30185	315	LGT	
MT 062	MT	053/75793	876		Minimum surveillance altitude sector Nr.5
MT 063	MT	125/61779	633		Minimum surveillance altitude sector Nr.7
MT 064	MT	136/19200	345		RWY23 initial approach
MT 065	MT	137/35000	427		
MT 066	MT	197/82825	1380		Minimum surveillance altitude sector Nr.8
MT 067	MT	203/28000	380		
MT 068	MT	206/43000	526		
MT 069	MT	217/54083	834		Minimum surveillance altitude sector Nr.9
MT 070	MT	219/16162	275		
MT 071	MT	232/17500	304		RWY05 intermediate approach
MT 072	MT	235/20000	185		
MT 073	MT	237/21000	312		
MT 074	MT	246/25660	380		RWY05 initial approach

半径 15 千米-50 千米内主要障碍物 (相对机场 ARP)
Obstacles between two circles with the radius of 15km and 50km (centered on the ARP)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(º)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志、灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
MT 075	MT	300/58891	1072		Minimum surveillance altitude sector Nr.10
MT 076	MT	357/33000	382		RWY23 initial approach

Remarks:

ZGNN AD 2.11 提供的气象情报、气象观测和报告
Meteorological information provided & meteorological observations and reports

提供的气象情报
Meteorological information provided

1	相关气象台的名称 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	Guangxi ATMB MET Office;24h;6h
4	趋势预报及发布间隔 Trend forecast/Interval of issuance	trend 1h
5	所提供的讲解或咨询服务 Briefing/Consultation provided	Briefing provided: P, T
6	飞行文件及其使用语言 Flight documentation/Language(s) used	Chart, International MET Codes, Abbreviated Plain Language Text;Ch,En
7	讲解或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	提供气象情报的辅助设备 Supplementary equipment available for providing information	FAX, Civil MET Database, MET Service Terminal, AWOS2000 auxiliary system, Central and Southern meteorological distributed platform
9	提供气象情报的空中交通服务单位 ATS units provided with information	APP, Nanning ACC, Nanning TWR, flight service office

10	其他信息 Additional information	TEL：86-771-2886565
气象观测和报告 Meteorological observations and reports		
1	机场观测类型与频率、自动观测设备 Type & frequency of observation /Automatic observation equipment	Hourly plus special observation/Yes
2	气象报告类型及所包含的补充资料 Type of MET Report/Supplementary information included	METAR, SPECI
3	观测系统及安装位置 Observation system/Site(s)	RVR EQPT A: 120m E of RCL, 475m inward THR05 B: 120m E of RCL, 1600m inward THR23 C: 120m E of RCL, 350m inward THR23 SFC wind sensors 05: 120m E of RCL,465m inward THR05 RWY center: 120m E of RCL,1600m inward THR23 23: 120m E of RCL,310m inward THR23 Ceilometer 05: 115m E of RCL,460m inward THR05 23: 115m E of RCL,305m inward THR23
4	观测系统的工作时间 Hours of operation for meteorological observation system	H24
5	气候资料 Climatological information	Climatological tables AVBL
6	其他信息 Additional information	Nil

ZGNN AD 2.12 跑道物理特征 Runway physical characteristics

跑道号码 RWY Designator	真方位和磁方位 TRUE & MAG BRG	跑道长宽 Dimensions of RWY(m)	跑道强度、跑道和停止道道面 RWY strength/ Surface of RWY /SWY	跑道入口坐标、跑道末端坐标、跑道入口大地水准面波幅 THR coordinates & RWY end coordinates & THR geoid undulation	跑道入口标高和精密进近跑道接地带最高标高 THR elevation & highest elevation of TDZ of precision APP RWY	跑道和停止道坡度 Slope of RWY/SWY
1	2	3	4	5	6	7
05	046.75 °GEO 048 °MAG	3200×45	PCR 940/R/A/W/T CONC/-	Nil	THR 127.1m TDZ 127.2m	-0.19%(731m)/0.11%(505m)/-0.11%(518m)/0.25%(946m)/-0.32%(500m)
23	226.75 °GEO 228 °MAG	3200×45	PCR 940/R/A/W/T CONC/-	Nil	THR 126.5m TDZ 128.1m	0.32%(500m)/-0.25%(946m)/0.11%(518m)/-0.11%(505m)/0.19%(731m)

跑道号码 RWY Designator	停止道长宽 SWY dimensions (m)	净空道长宽 CWY dimensions (m)	升降带长宽 Strip dimensions (m)	跑道端安全区长宽 RESA dimensions (m)	拦阻系统的位置及描述 Location& Description of arresting system	无障碍物区 OFZ
1	8	9	10	11	12	13
05	Nil	Nil	3320×300	90×120	Nil	Nil
23	Nil	Nil	3320×300	90×120	Nil	Nil

Remarks: RWY shoulder: 7.5m on each side; RWY grooved: 5mm×5mm×26mm

ZGNN AD 2.13 公布距离 Declared distances

跑道号码 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
1	2	3	4	5	6
05	3200	3200	3200	3200	Nil
05	2900	2900	2900	3200	FM A1
05	2800	2800	2800	3200	FM B3
23	3200	3200	3200	3200	Nil

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

跑道号码 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类型、位置、仰角、跑道入口最低眼高 Type of VASIS/Position /Angle/MEHT	接地带灯长度 TDZ LGT LEN	跑道中线灯长度、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	PALS CAT I SFL 900 m LIH	GREEN Yes	PAPI LEFT 428m inward THR05 3° 20.2m	Nil	3200 m spacing 30m 0-2300m, WHITE 2300-2900m, RED/WHITE 2900-3200m, RED VRB LIH	3200 m spacing 60m 0-2600m, WHITE 2600-3200m, YELLOW VRB LIH	RED	Nil
23	PALS CAT I SFL 900 m LIH	GREEN Yes	PAPI LEFT 377m inward THR23 3° 19.8m	Nil	3200 m spacing 30m 0-2300m, WHITE 2300-2900m, RED/WHITE 2900-3200m, RED VRB LIH	3200 m spacing 60m 0-2600m, WHITE 2600-3200m, YELLOW VRB LIH	RED	Nil
Remarks:								

ZGNN AD 2.15 其它灯光,备份电源 Other lighting, secondary power supply

1	机场灯标或识别灯标位置、特性和工作时间 ABN/IBN location, characteristics and hours of operation	Nil
2	着陆方向标和风向标位置和灯光 LDI/ WDI location and LGT	WDI: 05: 120m W of RCL, 360m inward THR05, with lights 23: 120m W of RCL, 250m inward THR23, with lights
3	滑行道边灯和滑行道中线灯 TWY edge and center line lighting	All TWYs: green center line lights, blue retroreflective markers, blue edge line lights
4	备份电源及转换时间 Secondary power supply/Switch-over time	Dual feed/＜1s, Diesel driven generators/≤15s
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 入口坐标及大地水准面波幅 Coordinates TLOF or THR of FATO, Geoid undulation	Nil
2	TLOF 和（或）FATO 标高 TLOF and/or FATO elevation	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

空域名称和水平范围 Designation and lateral limits		垂直范围 Vertical limits	空域分类 Airspace class	空中交通服务单位呼号和使用语言 ATS unit callsign Language	工作时间 Hours of applicability	备注 Remarks
1	2	3	4	5	6	7
Nanning tower control area	A circle with radius 15km centered at ARP	(600m) and below				
Fuel dumping area	N22 39.0E10754.0-N2248.0 E10829.0-N2213.0E108 37.0-N2209.0E10758.0-N2239.0E10754.0	Above 4000m				
Altimeter setting region and TL/TH		TL 3600 TH (3000)				

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 Callsign	频率 Frequency (MHz)	卫星话音通信号码 SATVOICE number	登录地址 Logon address	工作时间 Hours of operation	备注 Remarks
1	2	3	4	5	6	7
ATIS		126.25			H24	D-ATIS available
APP	Nanning Approach	APP01:121.25 (119.85)			H24	
		APP02:119.075 (119.85)			by ATC	
TWR	Nanning Tower	130.35 (118.35)			H24	
GND	Nanning Ground	121.75			HO	
APN	Nanning Apron	121.6 (121.975)			H24	
EMG		121.5			H24	

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

设施名称及类型、磁差、支持运行类别、VOR/ILS 磁偏角 Name and type of aid, VAR,Type of supported OPS, Declination of VOR/ILS	识别 ID	频率、波道 Frequency/ Channel number	工作时间 Hours of operation	发射天线坐标及相对位置 Coordinates of transmitting antenna/ Position	DME 发射天线标高 Elevation of DME transmitting antenna	备注 Remarks
1	2	3	4	5	6	7
Nanning VOR/DME	WUY	112.4 MHz CH 71X	H24	N22°35.1′ E108°08.9′ 228 °MAG / 3612m FM RWY center	142 m	For VOR:BTN -0.5-0.3NM on R228 °U/S; For DME:BTN -0.5-0NM on R228 °U/S.
LOC 05 ILS CAT I	IXU	108.9 MHz		048 °MAG/310m FM RWY05 end		
GP 05		329.3 MHz		120m E of RCL, 337m inside THR05		Angle 3 °, RDH 17.9 m
DME 05	IXU	CH 26X (108.9 MHz)			129m	Co-located with GP 05

设施名称及类型、磁差、支持运行类别、VOR/ILS 磁偏角 Name and type of aid, VAR,Type of supported OPS, Declination of VOR/ILS	识别 ID	频率、波道 Frequency/ Channel number	工作时间 Hours of operation	发射天线坐标及相对位置 Coordinates of transmitting antenna/ Position	DME 发射天线标高 Elevation of DME transmitting antenna	备注 Remarks
LOC 23 ILS CAT I	IUY	110.9 MHz		228 °MAG/310m FM RWY23 end		
GP 23		330.8 MHz		120m E of RCL, 275m inside THR23		Angle 3 °, RDH 16.4 m
DME 23	IUY	CH 46X (110.9 MHz)			133m	Co-located with GP 23

ZGNN AD 2.20 本场规定

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。

1.2 可使用最大机型：B747 及其同类机型。

1.3 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。

1.4 南宁机场过渡高 3000m(含)以下使用场压(QFE)作为气压基准面，请严格按照管制要求进行高度和气压基准面设置。

2. 跑道和滑行道的使用

2.1 进港航空器脱离跑道后，根据指令滑行至移交位置无影响时，由塔台管制移交至机坪管制(121.6MHz)，根据机坪管制发布的地面滑行和跟随引导车指令，跟随引导车至指定机位。到达指定机位后，可联系南宁现场(131.3MHz) 申请地面保障服务。

ZGNN AD 2.20 Local aerodrome regulations

1.Airport operations regulations

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

1.2 Maximum aircraft to be available: B747 and equivalent.

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

1.4 Transition height 3000m and below use QFE reference datum at Nanning airport, strictly follow ATC instructions to set altitude and pressure reference datum.

2. Use of runways and taxiways

2.1 Aircraft shall taxi to the transfer-control position after vacating RWY, then change TWR frequency to APN frequency (121.6MHz). With APN control instructions, aircraft shall be guided by follow-me vehicle to enter into designated stand,then contact

frequency 131.3MHz to apply handling service.

2.2 离港航空器在预计关舱门前 20min 向空管塔台申请放行许可，并在准备好推出和开车时通知空管塔台，由空管塔台指示离港航空器联系机坪管制。机坪管制负责发布推出、开车许可、滑行路线等指令。机坪管制室发布推出开车许可指令后，机组应在 5min 之内执行；超过 5min 仍未推出开车视为指令失效，机组需要重新申请推出开车；在进入空管塔台管制责任区前，由机坪管制指示联系空管塔台。如因天气等特殊情况，航空器不满足自主滑行条件时，具体听从机坪管制指令，跟随引导车滑行至指定道口。

2.2 Departing aircraft shall contact TWR ATC for delivery clearance 20min prior to the cabin door closed. Aircraft shall inform TWR ATC that it get ready for push-back and start-up. Then contact APN by following TWR ATC instructions. APN Control issued information such as push-back and start-up clearance, taxiing instruction.After APN Control issues push-back and start-up clearance, flight crew shall follow the APN instructions within 5 minutes or re-apply the clearance if not fulfill in time. Aircraft shall contact TWR ATC by following instruction before entering into TWR ATC Control Area.If aircraft cannot taxi without follow-me vehicle, shall follow the follow-me vehicle to the designated intersection by following APN instruction.

2.3 禁止航空器在滑行道上做 180°转弯，所有航空器必须按照指定的滑行路线滑行。在机坪管制范围内，由机坪管制发布滑行指令；在塔台管制范围内，由塔台管制发布滑行指令。

2.3 180°turn around on TWY is forbidden for all aircraft. All aircraft shall taxi on designated taxi route. Within APN control area, APN issued taxi instructions. Within ATC TWR control area, ATC TWR issued taxi instructions.

2.4 滑行道和滑行线的翼展限制

2.4 Wing span limits for TWYs and taxiing line

滑行线/Taxilane	翼展限制/Wing span limits(m)
East of center line of TWY D: C7, C8. T1(north of stand Nr.13A), T9.	65
East of center line of TWY D: B6, C3, C4. C9, T1(south of stand Nr.13A), T8	52
East of center line of TWY D: C5, C6, C10.	36

T2, T7, T10, T11	
滑行道/TWYs	翼展限制/Wing span limits(m)
West of center line of TWY D: B6, C3-C8, C10. A, A1, A2, A4, A6, B, B3, B4, B8, B9, C, D, J5, K, N, Q(east of TWY A), R, W	65
Q(west of TWY A)	52
J4	36

2.4.1 B、C 滑行道南北两端（B3 滑与 K 滑之间，R 滑与 B9 滑之间）因仪表着陆系统敏感区保护，分别设有 B 型跑道等待位置标志。未经管制许可，航空器严禁穿越上述等待位置标志。

2.4.1 Due to ILS sensetive area, there are holding positions pattern B at the end of TWY B and TWY C(BTN TWY B3 and TWY K, BTN TWY R and TWY B9), cross these area is strictly forbidden without ATC clearance.

2.4.2 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。

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

2.5 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。

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

2.6 地面管制规则

2.6 Rules for ground control

2.6.1 本场实施机坪运行管理。空管塔台地面管制和机坪管制单位分别负责向各自管辖范围内的航空器提供地面管制服务。可以通过所处辖区负责管制单位申请引导车和拖车服务。

2.6.1 Apron control is implemented. TWR ATC control and APN conctrol are responsible to provide the handling service in their own areas, including follow-me vehicle service and towing service.

2.6.2 管制范围划分

2.6.2 APN and TWR ATC control range

2.6.2.1 南宁机场机坪管制责任区范围详见机场图。

2.6.2.1 APN control areas refer ZGNN AD2.24-1.

2.6.2.2 空管塔台地面管制责任区范围为除南宁机场

2.6.2.2 TWR ATC control area include the maneuvering

机坪管制责任区范围外的航空器活动区域。

2.7 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。

2.7.1 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。

2.7.2 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。

2.8 非全跑道起飞运行规定

2.8.1 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。

2.8.2 实施 HUD 低能见度运行期间，禁止航空器使用非全跑道起飞。

2.9 地面风与跑道转换程序：在转换使用跑道方向过程中，短时使用跑道顺风分量超过 3.5m/s，但不大于 5m/s 时，管制员收到该信息应及时通知相关航空器驾

area except APN control area.

2.7 Hot spot Procedure

Refer aerodrome 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:

2.7.1 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 areais strictly forbidden without ATC clearance .

2.7.2 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 areais strictly forbidden without ATC clearance .

2.8 Partial runway taking-off regulations

2.8.1 RWY05 is conducting partial runway taking-off. If aircraft cannot conduct partial runway taking-off in preference, inform ATC when applying for delivery clearance. Flight crew please pay attention to ATIS.

2.8.2 Partial runway taking-off is strictly forbidden during conducting low visibility operation based on HUD.

2.9 During changing the direction of RWY, if downwind speed is more than 3.5m/s and not exceeding 5m/s, ATC shall inform flight crew immediately.The crew shall

驶员。航空器驾驶员应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者着陆，并将决定通知管制员。

decide whether they use the downwind runway or not, according to aircraft performance or operation handbook and inform ATC.

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。

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 航空器试车须在现场指挥中心(131.3MHz) 指定的地点并经机坪管制室(121.6MHz) 同意后进行，试车路线以机坪管制室指令为准。 试车结束后须向机坪管制和现场指挥中心报告。

3.2 Engine run-ups are subject to APN control (121.6MHz)clearance, and shall be carried out at a designated location assigned by Operation Control Center(131.3MHz); Aircraft shall report to APN control and Operation Control Center when Engine run-ups finished.

3.3 本场有 2 个停机坪，在机坪与机坪之间或机位与机位之间牵引航空器，须事先得到现场指挥中心(131.3MHz) 和机坪管制室(121.6MHz) 的许可。

3.3 Two aprons at this aerodrome. Towing aircraft BTN aprons or parking stands shall obtain the clearance from APN control(121.6MHz) and Operation Control Center(131.3MHz)in advance.

3.4 机位使用限制

3.4 Limits for aircraft parking on the following stands:

停机位/Stands	航空器翼展限制/Wing span limits for aircraft(m)	滑入滑出方式/Enter or Exit
Nr. 13, 14, 101,109-111, 121, 122	65	Taxi inPush back
Nr. 315-317	52	Taxi inPush back
Nr. 100, 102, 103, 106, 123-126	48	Taxi inPush back
Nr. 1-6	47.57	Taxi inPush back
Nr. 7A	38.05	Taxi in and out
Nr. 13A, 13B, 14A, 14B, 104, 105,	36	Taxi inPush back

107, 108, 112-120, 127-134, 323, 324		
Nr. 8-10, 301-314, 320-322, 325-329	36	Taxi in and out
Nr. 12	24	Taxi inPush back
Nr. 11, 318, 319	24	Taxi in and out

3.5 航空器不能同时使用的停机位

3.5 Stands can not be used simultically:

使用机位/Stands in use	影响机位/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

3.6 T2 航站区廊桥机位、登机桥、桥载设备信息具体详见下表：

3.6 Information of boarding bridge, bridge stands, bridge equipment on T2:

Stands	Model of bridge power supply equipment Model of air conditioning system Model of boarding bridge	Power of 400Hz Ground Power Unit(KVA)	Quantity of 400Hz Ground Power Unit	Power of Air conditioning system(KW)	Quantity of Air conditioning system	Guaranteed models

101	WGJB90/90 AC215X BL/BS	90	2	Equipment power 105 Refrigeration power 215 Heating power 115	2	EMB190,A300-600,A319/320/321,A330-200/300,A340-200/300/600,A350-900,B737,B747-400,B757-200,B767-200/300/400ER,B777-200/300,B787-3/8/9,C919，B737MAX。
109、110	WGJB90/90 AC215X BL/BS	90	2	Equipment power 105 Refrigeration power 215 Heating power 115	2	EMB190,A300-600,A319/320/321,A330-200/300,A340-200/300,B737,B747-400,B757-200,B767-200/300/400ER,B777-200,B787-3/8/9,C919，B737MAX。
111	WGJB90/90 AC215X BL/BS	90	2	Equipment power 105 Refrigeration	2	EMB190,A300-600,A319/320/321,A330-

				power 215 Heating power 115		200/300,A340-200/300/600,B737,B747-400,B757-200,B767-200/300/400ER,B777-200/300,B787-3/8/9,C919，B737MAX。
121	WGJB90/90 AC215X BL/BS	90	2	Equipment power 105 Refrigeration power 215 Heating power 115	2	A300-600,A319/320/321,A330-200/300,A340-200/300,A350-900,B737,B747-400,B757-200,B767-200/300/400ER,B777-200,B787-3/8/9，C919，B737MAX。
122	WGJB90/90 AC215X BL/BS	90	2	Equipment power 105 Refrigeration power 215 Heating power 115	2	A300-600,A319/320/321,A330-200/300,A340-200/300/600,B737,B747-400,B757-200,B767-20

						0/300/400ER, B777-200/300 ,B787-3/8/9, C919, B737MAX。
102、103、106、123-126	WGJB90/90 AC315X BL	90	1	Equipment power 182 Refrigeration power 320 Heating power 175	1	EMB190,A300-600,A319/320/321,B737 B757-200,B767-200/300,C919, B737MAX。
104、105、107、108、112-120、127-132	WGJB90/90 AC215X BL	90	1	Equipment power 105 Refrigeration power 215 Heating power 115	1	EMB190,A319/320/321, B737,C919, B737MAX。

Note:

1.Airport has 32 boarding bridges(19 CAT C stands, 7 CAT D stands and 6 CAT E stands）.

2.The air conditioning system for CAT D stand has two air ducts, while CAT E stand has two bridges, each with a set of bridge equipment.

3. The manufacturer of the bridge power supply is Weihai Guangtai Airport Equipment CO., Ltd., and the power supply of WGJB90/90 is 90kVA; The manufacturer of Pre-conditioned Air Unit is Guangdong Shenling Air Conditioning Equipment Co., Ltd.(now renamed Guangdong Shenling Environmental Systems Co., Ltd.), with AC215X air conditioner producing 60RT and AC315X air conditioner producting 90RT.

4.The manufacturer of the 32 passenger boarding bridges is Shenzhen CIMC Tianda Airport Equipment Co., Ltd., with two models: BL type(two-section bridge) and BS(three-section bridge), and the height adjustment of the

connecting port is between 2.1m and 5.8m.

4. 低能见度运行

4.1 HUD 特殊批准I/II类、低能见度起飞运行程序

4. Low visibility operation

4.1 Special authorized CAT I/II based on HUD, Low visibility take-off procedure

运行方式及启动标准/Types & Standards of Operation			
运行种类/Types of Operation Standards	运行条件/Operation Conditions		可使用的跑道/ Available RWYs
	天气标准（RVR 或云底高）/Weather Conditions (RVR or Ceiling)(m)	是否需要启动低能见度运行程序/ LVP Requirement	
HUD ILS Special CAT I	450≤RVR＜550 or 45≤Ceiling＜60	NO	RWY05/23
HUD ILS Special CAT II	350≤RVR＜450 or 30≤Ceiling＜45	YES	RWY05/23
Low visibility take-off based on HUD （RVR200m）	200≤RVR＜400	YES	RWY05/23

4.2 准备实施 HUD 特殊I/II类进近的机组应在与进近管制的首次联系中或更早提出申请。

4.2 Aircrew prepare for HUD Special CAT I / II approach should apply for APP ATC at the first time or earlier.

4.3 准备实施 HUD 低能见度起飞的机组应在预计起飞时间前 30min 或更早向塔台管制室提出申请。

4.3 Aircrew prepare for low visibility take-off based on HUD should apply for TWR ATC prior 30min ETD or earlier.

4.4 在低能见度运行申请中,必须报告执行的航班号、注册号、机型、航线、预计起飞/落地时间，同时报告

4.4 When applying for Low Visibility Operation, flight crew should report the flight informations and whether

航空器和机组是否具备HUD特殊I/II类精密进近运行或低能见度起飞运行资质。

the A/C and flight crew have Special authorization for special CAT I/ II PA or low visibility take-off based on HUD.

4.5 航空器引导

4.5 Aircraft guidances

4.5.1 在实施低能见度运行时，所有进离港航空器在停机坪区域滑行必须全程引导车引导。

4.5.1 During LVP in operation, All departure/arrival aircrafts taxiing on apron should follow the Follow-me vehicle.

4.5.2 HUD 特殊II类运行时，离场航空器应在指定滑行道的 B 型跑道等待位置或特定等待位置（N、W、K、B9 滑行道前）等待，未经许可，禁止越过等待线，避免进入仪表着陆系统敏感区。

4.5.2 During Special CAT II based on HUD in operation, departuring aircraft should holding at the specified holding position pattern B or holding position(in front of TWY N, W, K, B9). Crossing holding pattern is forbidden strictly without ATC clearance.

4.5.3 进场航空器落地后进入 A、B、C 平行滑行道表明已离开仪表着陆系统敏感区，然后向塔台管制室报告“航空器已脱离跑道”。

4.5.3 After landing and entering TWY A, B, C, arrival aircraft should report TWR controller: "aircraft has vacated runway".

4.6 飞行员应该获得如下信息：

4.6 Pilot should acquire the following informations:

4.6.1 气象实况和预报

4.6.1 Aerodrome present weather data and forecast

4.6.2 确认低能见度程序正在实施

4.6.2 Confirming LVP is implementing

5. 直升机飞行限制，直升机停靠区

5. Helicopter operation restrictions and helicopter parking/docking area

无

Nil

6. 警告

6. Warning

无

Nil

ZGNN AD 2.21 减噪程序

ZGNN AD 2.21 Noise abatement procedures

1 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

1 In condition of complying with the requirements of obstacle clearance and climb gradient required by flight

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)。

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).

2 起飞减噪程序

2.1 在航空器起飞性能允许的情况下，尽可能使用减推力起飞。

2.2 在场压高 450m 时，起始爬升速度 V2+20km/h(10kt)，减小功率和俯仰角，保持可靠襟翼和速度继续爬升。

2.3 场压高 900m 以上时，平稳加速至航路爬升速度，按规定收襟翼/缝翼。

2 Noise abatement procedures for departure

2.1 The derated take-off is strongly recommended if the take-off performance of aircraft permit.

2.2 At 450m on QFE, 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.

2.3 At 900m or above on QFE, 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

除经南宁进近或塔台特殊许可外，在南宁进近管制区和塔台管制区内的飞行必须按仪表飞行规则进行。

1. General

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

2. 起落航线

起落航线在跑道东南侧进行，起落航线高度：C、D 类航空器为场压高（600）m，A、B 类航空器为场压高（300）m。

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、离场程序和进近程序飞

3. IFR flight procedures

Strict adherence is required to the relevant arrival/

行。如果需要，航空器可申请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。

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

4. Radar procedures and/or ADS-B procedures

4.1 南宁进近管制区域内实施雷达管制，航空器最小水平间隔为 5.6km。

4.1 Radar control within Nanning Approach Control Area has been implemented. The minimum horizontal radar separation is 5.6km.

4.2 最低监视引导高度扇区

4.2 Surveillance Minimum Altitude Sectors

4.2.1 扇区位置点坐标：

4.2.1 Coordinates of points in Sectors :

位置点 Points	坐标 Coordinates	位置点 Points	坐标 Coordinates
1A	N224907E1090630	4B	N231625E1083723
1B	N223200E1090821	4C	N231233E1083558
1C	N222943E1082715	4D	N231730E1082013
1D	N221637E1081452	5A	N230750E1090430
1E	N222326E1073406	5B	N225329E1090602
1F	N225336E1075736	5C	N225257E1084341
1G	N225609E1081258	5D	N225729E1083437
1H	N224249E1082250	5E	N225527E1082437
2A	N230410E1075455	7A	N215750E1083636
2B	N232550E1080717	7B	N215626E1081956
2C	N232402E1081303	8A	N215413E1075351
2D	N225711E1081918	8B	N220003E1074303
3A	N231145E1085209	8C	N221100E1075500

3B	N225926E1083829	8D	N221000E1081632
3C	N230425E1081737	9A	N221608 E1071430
4A	N232121E1082137	10A	N225845E1071813

4.2.2 扇区范围及最低引导高度：

4.2.2 Sectors scope and altitude limit :

Sector	Scope	ALT(HEIGHT) limit
Nr.1	lA-1B-1C-1D-1E-1F-1G-1H-1A	750(600)m or above
Nr.2	2A-2B-2C-3C-2D-1G-1F-2A	850(700)m or above
Nr.3	3A-3B-3C-2C-4A-4D-4C-4B-3A	1400(1250)m or above
Nr.4	4A-4B-4C-4D-4A	2400(2250)m or above
Nr.5	5A-5B-5C-5D-5E-2D-3C-3B-3A-5A	1200(1100)m or above
Nr.6	1A-1H-1G-2D-5E-5D-5C-5B-1A	800(700)m or above
Nr.7	7A-7B-8D-1D-1C-1B-7A	950(850)m or above
Nr.8	8A-8B-8C-8D-7B-8A	2000(1900)m or above
Nr.9	9A-1E-1D-8D-8C-8B-9A	1150(1050)m or above
Nr.10	10A-2A-1F-1E-9A-10A	1400(1300)m or above

5. 无线电通信失效程序

5.1 表明飞行路径意图

当航空器驾驶员判明通信失效后，应通过应答机设置向管制员明示后续飞行路径意图。

5.1.1 继续飞往目的地：保持应答机编码 7600。

5. Radio communication failure procedures

5.1 Indicating Flight Path Intentions

Upon determining a communication failure, pilot shall use the transponder to indicate flight path intention to ATC.

5.1.1 Continue to the destination airport: maintain transponder code at 7600.

5.1.2 返回起飞机场：应答机编码在 7600 和 7601 间以 30s 间隔重复调整 2 次并最终设置为 7600，直至着陆。

5.1.2 Return to the departure airport: the transponder code is adjusted twice in 30 seconds intervals between 7600 and 7601, and finally set to code 7600 until landing.

5.1.3 飞往起飞备降机场：应答机编码在 7600 和 7602 间以 30s 间隔重复调整 2 次并最终设置为 7600，直至着陆。

5.1.3 Diverting to take-off alternate airport: the transponder code is adjusted twice in 30 seconds intervals between 7600 and 7602, and finally set to code 7600 until landing.

5.2 无线电通信失效后的操作

在航空器驾驶员完成向管制员明示飞行意图的操作后，应根据航空器驾驶员意图，分为降落机场是否为南宁机场，执行下列操作。

5.2 Flight operations after radio communication fails

After indicating flight intention to ATC, pilot shall respectively perform the following operations based on whether the destination airport is Nanning airport.

5.2.1 选择南宁机场降落时：

根据最后收到的南宁机场着陆跑道和场面气压值，上升到或下降到场压 2400m 飞至 WUY 导航台，加入标准等待程序后下降至场压 900m，自主选择标准仪表进近程序开始进近。

5.2.1 Choose to land at Nanning airport:

According to the latest landing RWY and barometric datum at Nanning airport, climb or descend to 2400m on QFE and fly to WUY, join the standard holding pattern, descend to 900m on QFE and indicate selected IAC.

5.2.2 选择其他机场降落时：

根据最后收到的南宁机场场面气压值，上升到或下降到场压 2400m，恢复自主领航，飞往南宁相应进近边界点(SARUG、VAPNA、NIKUK、XEREN、UVUNO)，之后沿常规航路、航线飞往降落机场。在此过程中，航空器应满足最低飞行高度。

5.2.2 Choose to land at another airport:

According to the latest barometric datum at Nanning airport, climb or descend to 2400m on QFE, resume own navigation, pilot shall fly to the corresponding approach boundary waypoint for Nanning(SARUG, VAPNA, NIKUK, XEREN, UVUNO),then fly along the designated standard route or airway to the alternate airport. During this process, aircraft shall comply with the minimum flight altitude.

5.3 特别注意事项

5.3 Notes

5.3.1 航空器驾驶员应当注意检查航空器高度，避免

5.3.1 Pilot shall pay attention to the aircraft's altitude

航空器低于最低安全高度。

5.3.2 通信失效航空器自主复飞后上升到场压 2400m 后按本程序 5.1 执行。

6. 目视飞行程序

南宁进近管制区和塔台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。

7. 目视飞行航线

无

8. 其它规定

无

ZGNN AD 2.23 其它资料

鸟情资料

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。

and avoid flying below the minimum safe altitude.

5.3.2 After the communication failure, the aircraft should climb to 2400 meters on QFE and follow the procedures in section 5.1.

6. Procedures for VFR flights

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

7. VFR route

Nil

8. Other regulations

Nil

ZGNN AD 2.23 Other information

Bird’s 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.