

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

ZSQD- 青岛/流亭 QINGDAO/Liuting

ZSQD 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	N36° 15.9' E120° 22.4' Center of RWY
2	方向、距离 Direction and distance from city	012° GEO, 23km from city center
3	标高 / 参考气温 Elevation/Reference temperature	10m/ 31.2° C (JUL)
4	机场标高位置 / 高程异常 AD ELEV PSN/ geoid undulation	THR35/6.0m
5	磁差 / 年变率 MAG VAR/Annual change	6° W/-
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	Qingdao Liuting Airport Authority of CAAC Qingdao Liuting International Airport, Qingdao 266108, Shandong province, China TEL: 86-532-84715777 FAX: 86-532-84715390
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

ZSQD 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	H24
12	备注 Remarks	Nil

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

1	货物装卸设施 Cargo-handling facilities	Platform lift (6.8 tones to 27 tones), tow tractor , fork-lift, baggage transporter
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 (38000 liters-47000 liters) and hydrant cart; apron refueling wells (13 liters-20liters /sec)
4	除冰设施 De-icing facilities	De-icer
5	过站航空器机库 Hangar space for visiting aircraft	China Eastern Airlines Hangar and Shandong Airlines Hangar
6	过站航空器的维修设施 Repair facilities for visiting aircraft	Line maintenance available for various types of aircraft on request
7	备注 Remarks	Nil

ZSQD 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, buses
4	医疗设施 Medical facilities	First-aid and 3 ambulances at AD
5	银行和邮局 Bank and Post Office	At AD
6	旅行社 Tourist Office	In the city TEL: 86-532-85720322
7	备注 Remarks	Nil

ZSQD 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 9
2	援救设备 Rescue equipment	Fire fighting facilities: rapid intervention vehicle, primary foam tender, heavy-duty foam tender, heavy-duty water tank truck, dry-chemical tender, chemical supply tender, illumination truck, command car. Rescue equipment: hydraulic pressure scissor, air pump, mobile surface operation devices, disassembly rescue truck, logistics truck.
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	MTWA up to 80 tones
4	备注 Remarks	Nil

ZSQD 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 Snow blowers, snow fluid trucks, snow scraper, snow ploughs, friction coefficient measuring vehicle
2	扫雪顺序 Clearance priorities	RWY, TWY, apron
3	备注 Remarks	Nil

ZSQD 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 70/R/B/W/T (Stands Nr. 5-10, 21, 21A, 21B, 23-30, 40-45, C1-C4) PCN 56/R/B/W/T (Stands Nr.11-20 and Nr.31-39)
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	Width:	36m: B(east of main TWY); 34m: A3, A5, A6, A7, B(west of main TWY), D(east of main TWY); 28.5m: A(north and south), C, E, F, G; 25m: A1; 23m: Main TWY A, D(west of main TWY); 20m: A2
		Surface:	Asphalt (A, B(west of main TWY), C, D(west of main TWY), E, F, G) Cement concrete (A1, A2, A3, A5, A6, A7, B(east of main TWY), D(east of main TWY))
		Strength:	PCN 77/R/B/W/T (A(north and south), B(west of main TWY), D(west of main TWY), G) PCN 71/R/B/W/T (Main TWY A) PCN 70/F/B/W/T (C, E, F) PCN 70/R/B/W/T (A3, A7, B(east of main TWY), D(east of main TWY)) PCN 56/R/B/W/T (A5, A6) PCN 52/R/B/W/T (A1, A2)
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	

ZSQD 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	Aircraft stand identification sign board at apron. Taxiing guidance signs at all intersections of TWY and RWY and at all holding positions. Guide lines at apron.	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	RWY markings	THR, RWY designation, TDZ, center line, center circle, edge line, aiming point
		RWY lights	Center line, edge line, THR, RWY end
		TWY markings	Center line, edge line, taxi holding positions
		TWY lights	Edge line, center line
3	停止排灯 Stop bars	Nil	
4	备注 Remarks	Blue edge light for apron	

ZSQD AD 2.10 机场障碍物 Aerodrome obstacles

Obstacles within a circle with a radius of 15km centered on RWY center					
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	008	4473	59.3	
2	*BLDG	013	4502	60.9	
3	*BLDG	014	5531	62.3	
4	Chimney	017	14536	164.9	
5	BLDG	021	4649	71.7	
6	BLDG	021	4605	71.7	
7	*BLDG	022	4478	67.6	
8	*BLDG	023	4505	66.9	
9	BLDG	026	3767	64.6	
10	BLDG	026	3720	64.6	
11	*BLDG	029	4621	67.8	
12	*BLDG	033	4717	86.8	
13	BLDG	034	3631	69.1	
14	*BLDG	036	4494	67.1	

Obstacles within a circle with a radius of 15km centered on RWY center					
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
15	*BLDG	038	4176	72.4	
16	*BLDG	048	4598	59.2	
17	*BLDG	049	4511	56.7	
18	*BLDG	053	3926	63.6	
19	*BLDG	056	4217	65.7	
20	*BLDG	062	4661	81.3	
21	*BLDG	062	3438	60.6	
22	*BLDG	069	2317	61.8	
23	*Light Pole	073	2440	57.2	
24	*Light Pole	073	2621	58.5	
25	*Light Pole	076	2736	60.0	
26	*Light Pole	076	2557	58.9	
27	*BLDG	076	3270	71.8	
28	*BLDG	078	2283	59.4	
29	*BLDG	078	2347	64.8	
30	BLDG	078	2391	54.9	
31	*BLDG	078	3106	65.6	
32	*BLDG	079	2454	59.8	
33	BLDG	080	2514	54.3	
34	*Control TWR	089	596	69.7	RWY17 ILS/DME missed approach; RWY17 VOR/DME missed approach; RWY35 VOR/DME missed approach;
35	MT	091	14958	564	
36	MT	093	11785	427.6	
37	*BLDG	108	4773	91.7	
38	*TWR	112	4813	80.7	
39	*TWR	112	5056	89.5	

Obstacles within a circle with a radius of 15km centered on RWY center					
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
40	*TWR	114	4541	65.8	
41	BLDG	115	9687	438.8	
42	*TWR	115	4595	69.4	
43	MT	119	11538	452.0	
44	*BLDG	120	3157	62.2	
45	MT	123	13802	402.0	
46	*TWR	123	4689	63.1	
47	*BLDG	125	4966	67.8	
48	*BLDG	126	4810	68.0	
49	*TWR	126	4620	64.5	
50	MT	127	13682	277.0	
51	*BLDG	128	4925	66.8	
52	*TWR	129	4570	60.9	
53	*BLDG	130	4705	56.9	
54	*TWR	133	4524	68.3	
55	MT	135	10782	362.0	
56	MT	136	14208	180.0	
57	*TWR	138	4495	62.2	
58	*BLDG	138	5488	87.5	
59	*BLDG	139	5539	92.7	
60	*BLDG	140	4466	73.4	
61	*TWR	142	6697	251.3	
62	*TWR	142	4501	60.8	
63	MT	144	9737	434.0	
64	*BLDG	145	5005	84.0	
65	*TWR	146	4521	60.9	
66	*BLDG	146	5270	77.5	
67	*BLDG	147	5288	83.0	
68	*BLDG	147	6767	122.8	

Obstacles within a circle with a radius of 15km centered on RWY center					
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
69	*TWR	147	4680	69.5	
70	*BLDG	147	6732	122.8	
71	Chimney	147	12321	168.1	
72	*BLDG	148	3596	61.2	
73	*TWR	149	5031	76.2	
74	*TWR	151	5313	76.7	RWY35 VOR/DME final approach
75	MT	160	8400	209.0	RWY17 departure; CAT C/D Circling; RWY35 VOR/DME final approach
76	MT	165	8129	200.0	RWY17 Take-off path; RWY35 GP INOP final approach
77	BLDG	167	9175	118.5	
78	BLDG	168	7096	107.7	RWY17 Take-off path; RWY35 GP INOP final approach
79	Pole	170	2658	24.2	RWY17 Take-off path
80	BLDG	170	9508	114.8	
81	BLDG	172	4752	54.5	RWY35 GP INOP final approach
82	*Antenna	175	1404	25.0	RWY35 ILS/DME final approach
83	Chimney	176	4298	50.5	RWY17 Take-off path
84	*Pole	177	2078	16.8	RWY17 Take-off path
85	Chimney	177	1941	15.1	
86	*Chimney	181	6496	104.8	
87	*Chimney	181	6470	108.5	CAT A/B Circling; RWY35 VOR/DME final approach
88	*Chimney	182	6444	105.1	
89	*Chimney	193	6080	84.1	
90	*Chimney	197	5937	83.4	
91	*BLDG	199	4949	61.4	

Obstacles within a circle with a radius of 15km centered on RWY center					
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
92	*BLDG	218	2407	65.4	
93	MT	224	4658	67.1	
94	MT	225	4718	59.2	
95	*BLDG	234	4011	66.2	
96	*BLDG	234	4042	61.7	
97	*Chimney	320	6774	132.5	
98	*BLDG	342	1732	42.1	
99	MT	342	14930	62	
100	*BLDG	345	4989	57.7	RWY17 VOR/DME final approach; RWY17 GP INOP final approach; RWY35 departure; RWY35 Take-off path;
101	*Antenna	345	1394	25.0	RWY17 ILS/DME final approach
102	BLDG	351	2791	29.3	RWY35 Take-off path
103	BLDG	353	4508	52.8	RWY35 Take-off path
104	TWR	353	2987	31.9	RWY35 Take-off path

Obstacles between two circles with the radius of 15km and 50km centered on RWY center					
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	MT	006	15477	211	RWY17 initial approach; RWY17 intermediate approach
2	MT	062	28878	327	
3	MT	072	23665	311	
4	MT	074	15558	329	
5	MT	079	15141	364	
6	MT	084	18164	683	
7	MT	100	15890	514	

Obstacles between two circles with the radius of 15km and 50km centered on RWY center					
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
8	MT	101	20783	759	
9	MT	110	18304	601	
10	MT	110	23519	1020	
11	MT	112	19246	691	
12	MT	116	18886	732	
13	MT	119	21930	902	
14	MT	120	24783	1133	
15	MT	127	20099	633	
16	MT	148	15164	224	
17	MT	152	19922	398	
18	MT	171	20282	368	RWY 35 intermediate approach
19	MT	178	19526	207	
20	BLDG	183	22304	255.4	
21	BLDG	185	22375	228.1	
22	BLDG	186	19664	181.0	
23	BLDG	186	22468	249.5	
24	BLDG	187	19401	183.7	
25	BLDG	187	22736	240.0	
26	TWR	192	21989	346.7	
27	Chimney	200	17442	229.0	
28	Chimney	200	17600	229.0	
29	MT	223	42502	725	
30	MT	231	34958	351	
31	MT	235	41578	308	
32	MT	245	48397	208	
33	MT	254	42640	229	
34	MT	265	37700	113	
35	MT	271	40363	113	
Remarks: Other obstacles refer to AD OBST chart.					

ZSQD 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	Qingdao Liuting Aerodrome 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	Qingdao Liuting Aerodrome 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 material, AWOS real-time data
8	提供信息的辅助设备 Supplementary equipment available for providing information	Fax, web terminal
9	接收气象信息的空中交通服务单位 ATS units provided with information	Qingdao Tower, Qingdao Approach, Qingdao ACC
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)	SFC wind sensors: 135m E of RCL, 300m inward THRs. RVR EQPT: 120m E of RCL, 300m inward THRs. Ceilometer: Near LMM of each RWY.
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

ZSQD 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
17	165° GEO 171° MAG	3400 × 45	81/R/B/W/T Asphalt	Nil	THR 9.7m --
35	345° GEO 351° MAG	3400 × 45	81/R/B/W/T Asphalt	Nil	THR 10.0m --
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
See AOC	Nil	Nil	3520 × 300	5320 × 390	230 × 150m
See AOC	Nil	Nil	3520 × 300	5320 × 390	235 × 150m
Remarks: 1. 7.5m RWY shoulder on both sides. 2. Anti-blast pad 60 × 60m.					

ZSQD 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
1	2	3	4	5	6
17	3400	3400	3400	3400	Nil
35	3400	3400	3400	3400	Nil

ZSQD 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
17	CAT I 900m* LIH	Green Green	PAPI Left/3°	Nil	3400m** spacing 30m	3400m*** spacing 60m	Red	Nil
35	CAT I 720m* LIH	Green Green	PAPI Left/3°	Nil	3400m** spacing 30m	3400m*** spacing 60m	Red	Nil
Remarks: * SFL ** Up to 2500 White LIH, 2500-3100 White/Red LIH, 3100-3400 Red LIH *** Up to 2800 White LIH, 2800-3400 Yellow LIH								

ZSQD 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	Nil
3	滑行道边灯和中心线灯光 TWY edge and center line lighting	For all TWYs
4	备份电源 / 转换时间 Secondary power supply/switch-over time	Standby power supply available/ 10-12 sec
5	备注 Remarks	Nil

ZSQD 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

ZSQD 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
Qingdao tower control area	By ATC	By ATC	
Fuel Dumping Area	N360000E1211000- N360000E1224500- N351000E1214500- N351000E1211000- N360000E1211000	Above 4000m	
Altimeter setting region and TL/TA	A circle with a radius of 55km centered on Qingdao VOR/DME.	TL 3600m TA 3000m 3300m(QNH \geq 1031hPa) 2700m(QNH \leq 979hPa)	

ZSQD 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		127.2	H24	D-ATIS available
APP	Qingdao Approach	119.4(124.6)AP01	H24	Nil
APP	Qingdao Approach	121.15(124.6) AP02	By ATC	Contact AP01 when not available.

服务名称 Service Designation	呼号 Call sign	频率 Frequency (MHz)	工作时间 Hours of operation	备注 Remarks
TWR	Qingdao Tower	118.7(124.3)	H24	Nil
GND	Qingdao	121.65	H24	Nil
GND	Qingdao delivery	121.95	H24	DCL available

ZSQD 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
Xuejiadao VOR/DME	DX	110.4 MHz CH 41X	N35° 58.7' E120° 17.4'	110m	
VOR/DME	TAO	117.5 MHz CH 122X	N36° 17.3' E120° 22.2'	18.3m	50m E of RCL, 736m FM THR17
ILS 17 LOC	INX	110.7 MHz	171° MAG/ 295m FM end RWY 17		
GP 17		330.2 MHz	120m W of RCL, 311m inward FM THR17		Angle 3° RDH 15m
DME	INX	CH 44X (110.7) MHz		15.0m	Co-located with GP17
MM 17		75 MHz			351° MAG/ 910m FM THR17
ILS 35 LOC	IPP	111.7 MHz	351° MAG/ 290m FM end RWY 35		
GP 35		333.5 MHz	120m W of RCL, 307m inward FM THR35		Angle 3° RDH 16m
DME	IPP	CH 54X (111.7) MHz		16.0m	Co-located with GP35
MM 35		75 MHz			171° MAG/ 1200m FM THR35
OM 35		75 MHz			171° MAG/ 6303m FM THR35
Remark: Nil					

ZSQD AD 2.20 本场飞行规定**1. 机场使用规定**

禁止活塞式发动机的航空器和未安装二次雷达应答机的航空器起降；

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；

1.3. 可使用最大机型 :B747-8 及其同类机型。

2. 跑道和滑行道的使用

2.1. 可以通过地面管制申请引导车和拖车服务；

2.2. A3, D(主滑行道以东)滑行道供翼展65米以下航空器使用；

2.3. D(主滑行道以西)滑行道供翼展52米以下航空器使用；

2.4. A7 滑行道仅供停放于 40-45 号机位的航空器滑出使用。

3. 机坪和机位的使用

3.1. 无地面人员指挥,禁止航空器自行滑入机位；进入 C1-C4, 11-13, 27-30 及 32 号机位需使用引导车；

3.2. 航空器地面滑行时,若对人员、设备/设施可能造成损坏或构成威胁时,使用牵引车牵引；

3.3. 航空器禁止在牵引过程中开车；

3.4. 发动机试车,需经地面管制许可,并在指定的地点进行。严禁在廊桥附近、客机坪上和滑行道上试大车；

ZSQD AD 2.20 Local traffic regulations**1. Airport operations regulations**

1.1. Takeoff/landing of piston-engine aircraft and aircraft without SSR transponder are forbidden;

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

1.3. Maximum aircraft to be available: B747-8 and equivalent.

2. Use of runways and taxiways

2.1. Follow-me vehicle service and towing service are available via Ground Control;

2.2. TWYs A3 and D (east of main TWY) available for aircraft with wing span not exceeding 65m;

2.3. TWY D (west of main TWY) available for aircraft with wing span not exceeding 52m;

2.4. TWY A7 is only available for aircraft to exit Nr. 40-45 stands.

3. Use of aprons and parking stands

3.1. Aircraft shall not taxi into a parking stand on its own power without guidance of a marshaller; Entering stands C1-C4, 11-13, 27-30 and 32 shall be guided by follow-me vehicle;

3.2. If an aircraft may possibly cause injury or constitute a hazard to personnel or equipment around while taxiing on ground surface, a tow tractor shall be used;

3.3. Engine start-up is forbidden while towing is in progress;

3.4. Engine run-ups are subject to Ground Control clearance, and may only be carried out at a designated location. Fast engine run-ups near boarding bridges, on apron or taxiways are strictly forbidden;

3.5. 在 C1-C4, 5-10, 21, 21A, 24, 25, 27-33 机位停放的航空器须由牵引车推出; 3.5. Aircraft parking/docking at stands Nr.C1-C4, 5-10, 21, 21A, 24, 25, 27-33 shall be pushed back by tow tractor;

3.6. 41号机位不得用于滑行通道; 3.6. Stand Nr.41 is forbidden to be used as taxi line;

3.7. 航空器不能同时使用的机位 / Pair of stands forbidden to use simultaneously:

The stand in use	The stands forbidden to be used
Nr.5	Nr.6
Nr.39	Nr.45
Nr.21	Nr.21A and Nr.21B
Nr.21A or Nr.21B	Nr.21

机位限制 /Limits for aircraft parking on the following stands:

停机位 /Stands	航空器翼展限制 / Wing span limits for aircraft	机身长度限制 / fuselage
Nr. 5,7,13,15,21,37	≤ 65m	≤ 70.67m for stands Nr.13,15, 21
Nr. C1,C3,C4	≤ 64.8m	≤ 74.77m
Nr. 6,8-10,14,16, 35-36,38,41-45,C2	≤ 52m	≤ 62m for stand Nr.C2 ≤ 61.6m for stands Nr.14,16 ≤ 58m for stand Nr.8 ≤ 57.5m for stand Nr.10 ≤ 55.5m for stands Nr. 9,41-45 ≤ 47.4m for stands Nr. 35,36
Nr.12,17,40	≤ 48m	≤ 55.5m for stand Nr.40 ≤ 55m for stands Nr. 12,17
Nr.11, 18-20, 21A, 23-34, 39	≤ 36m	≤ 37.6m for stands Nr.23,26,27 ≤ 44.5m for stands Nr.21A, 24,25,28-30,39 ≤ 47m for stands Nr.11,18-20,31-34
Nr.21B	≤ 24m	
Remarks: Stand Nr.34 is not available for B737-700W,800W,900W,900.		

4. 进、离场管制规定

无

4. Air traffic control regulations

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

ZSQD AD 2.21 噪音限制规定及减噪程序

ZSQD AD 2.21 Noise restrictions and Noise abatement procedures

无 Nil

ZSQD AD 2.22 飞行程序

ZSQD AD 2.22 Flight procedures

1. 总则

1. General

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。

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

2. 起落航线

2. Traffic circuits

起落航线在跑道西侧进行,A、B类航空器高度300米,C、D类航空器高度500米。

Traffic circuits shall be made to the west of RWY, at the altitude of 300m for aircraft CAT A/B, and 500m 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 provisions published in the aeronautical charts. Aircraft may, if necessary, hold or maneuver on an airway, over an NDB or over a fix designated by ATC.

4. 雷达程序和 / 或 ADS-B 程序

青岛进近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 Qingdao APP has been implemented. The minimum horizontal radar separation is 6km.

5. 无线电通信失效程序

5.1 航空器通信失效

5.1.1 航空器如果具有信号接收能力,根据接收到的管制指令继续飞行。

5. Radio communication failure procedures

5.1 Aircraft communication failure

5.1.1 If able to receive signal, continue flying in accordance with ATC instructions.

5.1.2 航空器如果不具备信号接收能力,航空器应按照下列特定的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备降。

5.1.2 If unable to receive signal, continue approach and land as soon as possible according to the specific approach procedure listed below. If the airport not suitable for landing, the pilot may return to the original airport or fly to the alternate at their own discretion.

a. 使用35号跑道

航空器按照最后接收到的管制员指令高度(如果指令高度低于1800米则立即上升至1800米,如果指令高度高于1800米则保持指令高度)飞向XDX,过台后按仪表程序加入等待程序,下降至900米,按35号跑道仪表进近图着陆;如果过XDX高度为1800米,则可直接按35号跑道仪表进近图着陆。

a. RWY35 in use

Fly to XDX in accordance with the last designated altitude(if designated altitude is lower than 1800m, then climb to 1800m immediately; if designated altitude is higher than 1800m, maintain the designated altitude), after passing XDX, join holding procedure, descend to 900m, land in accordance with RWY35 instrument approach chart; if passing XDX at 1800m, land directly in accordance with RWY35 instrument approach chart.

b. 使用 17 号跑道

航空器按照最后接收到的管制员指令高度 (如果指令高度低于 1800 米则立即上升至 1800 米, 如果指令高度高于 1800 米则保持指令高度) 飞向 TAO, 过台后按仪表程序加入等待程序, 下降至 550 米, 然后按 17 号跑道仪表进近图着陆; 如果过 TAO 高度为 1800 米, 则可直接按 17 号跑道仪表进近图着陆。

5.2 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信联系时, 航空器应联系上一个管制单位, 并按照接收管制单位的管制指令继续飞行。

5.3 无线电通信恢复

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。

6. 目视飞行程序

无

7. 目视飞行航线

无

8. 目视参考点

无

9. 其它规定

无

10. 区域导航飞行程序相关数据**b. RWY17 in use**

Fly to TAO in accordance with the last designated altitude(if designated altitude is lower than 1800m, then climb to 1800m immediately; if designated altitude is higher than 1800m, maintain the designated altitude), after passing TAO, join holding procedure, descend to 550m, land in accordance with RWY17 instrument approach chart; if passing TAO at 1800m, land directly in accordance with RWY17 instrument approach chart.

5.2 Local control unit communication failure

If local control unit communication failure, when unable to establish effective contact with the control unit, the aircraft should contact the last control unit, and continue flying in accordance with instructions from the accepting control unit.

5.3 Regaining radio communication

Once the aircraft experiencing communication failure landed, or regained contact, the control unit should resume normal operation and inform the concerned immediately.

6. Procedures for VFR flights

Nil

7. VFR route

Nil

8. Visual reference point

Nil

9. Other regulations

Nil

10. Data for RNAV flight procedures

10.1 RNAV程序实施范围

在青岛进近管制范围内，对进出青岛流亭机场的航班实施RNAV进离场飞行程序，包括离场、进场以及起始进近阶段，中间进近、最后进近和复飞阶段仍然采用传统程序。

10.2 RNAV程序的实施要求

要求当离场航班首次联系塔台或进场航班首次联系进近前应首先检查自己具有的RNAV能力与FPL中标示的RNAV能力是否相符，如果不符时，首次联系时应主动向管制员报告，否则管制员认为该航班实际RNAV能力与FPL报文RNAV能力相符；

管制员指挥航空器按RNAV程序飞行是指航空器须按RNAV程序的水平引导飞行，垂直方向的引导（高度）须以管制员发布的高度指令为准。

10.3 区域导航飞行程序相关数据

10.1 Scope of implementation for RNAV procedure

Within approach controlled airspace, RNAV procedures is implemented to flights inbound and outbound Qingdao airport in departure, arrival and initial approach phases. However, conventional procedures shall be used in intermediate approach, final approach and missed approach.

10.2 Procedure implementation requirements

When departing flight contacting Tower or arriving flight contacting Approach initially, check aircraft RNAV ability whether is compliant with labeled RNAV ability in FPL, if not, inform the controller on initial contact, otherwise controller will believe that the flight practical RNAV ability agree with the RNAV ability in FPL.

Conducting RNAV procedure instructed by controller refers to flying in accordance with the lateral guidance of RNAV procedure, however, vertical guidance shall be based on altitude or level issued by controller.

10.3 Data for RNAV flight procedures

ID	COORDINATES(WGS-84)	ID	COORDINATES(WGS-84)
QD001	N362401 E1201954	QD108	N361004 E1201827
QD002	N362551 E1201919	QD109	N361650 E1203332
QD003	N362653 E1202418	QD201	N361030 E1203330
QD004	N362332 E1202522	AA3	N361636 E1202830
QD005	N362442 E1201352	Fix H	N361742 E1201600
QD006	N362943 E1201215	ABVER	N354242 E1203324
QD007	N363051 E1201742	LATUX	N352900 E1204700
QD008	N364139 E1202408	IDVEL	N352254 E1203454
QD009	N364120 E1203519	URBAD	N360700 E1202848
QD100	N360344 E1202621	ATLED	N363154 E1202242
QD101	N360123 E1202706	MUPIK	N363112 E1203336
QD102	N360014 E1202135	VEPGI	N362248 E1202942
QD103	N355809 E1202807	BIKOB	N365900 E1202642
QD104	N355701 E1202242	TAO	N361718 E1202212
QD105	N355137 E1202425	XDX	N355842 E1201724
QD106	N355610 E1201841	FD	N365548 E1203754

Waypoint sequence for RWY 17 arrival

BIK-51F	(IF) BIKOB ↓ 4500 ↑ 3900	QD008 193° 2400 or by ATC MAX 380kmH	ATLED 193° ↑ 1200	QD002 211° ↑ 550	QD001 171° 550	
BIK-53F (by ATC)	(IF) BIKOB ↓ 4500 ↑ 3900	QD008 193° 2400 or by ATC MAX 380kmH	QD007 213° ↑ 900	QD002 171° ↑ 550	QD001 171° 550	
FD-51F	(IF) FD 3900 or by ATC	QD008 222° 2400 or by ATC MAX 380kmH	ATLED 193° ↑ 1200	QD002 211° ↑ 550	QD001 171° 550	
FD-53F (by ATC)	(IF) FD 3900 or by ATC	QD008 222° 2400 or by ATC MAX 380kmH	QD007 213° ↑ 900	QD002 171° ↑ 550	QD001 171° 550	
IDV-51F	(IF) IDVEL	XDX 344° 2100	TAO 018° 1500 MAX 380kmH	QD004 029° ↑ 900	QD003 351° ↑ 550	QD002 261° ↑ 550
	QD001 171° 550					
IDV-53F (by ATC)	(IF) IDVEL	XDX 344° 2100	TAO 018° 1500 MAX 380kmH	QD004 029°	ATLED 351° ↑ 1200	QD007 261° ↑ 900
	QD002 171° ↑ 550	QD001 171° 550				
IDV-55F (by ATC)	(IF) IDVEL	XDX 344° 2100	Fix H 003° 1500 MAX 380kmH	QD005 351° ↑ 900	QD002 081° ↑ 550	QD001 171° 550
IDV-57F (by ATC)	(IF) IDVEL	XDX 344° 2100	Fix H 003° 1500 MAX 380kmH	QD006 351° ↑ 900	QD007 081° ↑ 900	QD002 171° ↑ 550
	QD001 171° 550					

LAT-51F	(IF) LATUX	ABVER 327°	XDX 327° 2100	TAO 018° 1500 MAX 380kmH	QD004 029° ↑ 900	QD003 351° ↑ 550
	QD002 261° ↑ 550	QD001 171° 550				
LAT-53F (by ATC)	(IF) LATUX	ABVER 327°	XDX 327° 2100	TAO 018° 1500 MAX 380kmH	QD004 029°	ATLED 351° ↑ 1200
	QD007 261° ↑ 900	QD002 171° ↑ 550	QD001 171° 550			
LAT-55F (by ATC)	(IF) LATUX	ABVER 327°	XDX 327° 2100	Fix H 003° 1500 MAX 380kmH	QD005 351° ↑ 900	QD002 081° ↑ 550
	QD001 171° 550					
LAT-57F (by ATC)	(IF) LATUX	ABVER 327°	XDX 327° 2100	Fix H 003° 1500 MAX 380kmH	QD006 351° ↑ 900	QD007 081° ↑ 900
	QD002 171° ↑ 550	QD001 171° 550				

Waypoint sequence for RWY 17 holding (outbound time: 1min)

(HM) QD008	Fly over point	013° (outbound angle)	Left turn direction	2400 or by ATC	MAX 400kmH
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Waypoint sequence for RWY 35 arrival

BIK-52F	(IF) BIKOB ↓ 4500 ↑ 3900	QD008 193° 2400 or by ATC	ATLED 193° 1800	QD108 195° ↑ 1500 MAX 380kmH	QD102 171° ↑ 1500	QD101 081° ↑ 900
	QD100 351° 900					

BIK-54F (by ATC)	(IF) BIKOB ↓ 4500 ↑ 3900	QD008 193° 2400 or by ATC	ATLED 193° 1800	Fix H 207° 1800	QD108 171° ↑ 1500 MAX 380kmH	QD102 171° ↑ 1500
	QD101 081° ↑ 900	QD100 351° 900				
FD-52F	(IF) FD 3900 or by ATC	QD008 222° 2400 or by ATC	ATLED 193° 1800	QD108 195° ↑ 1500 MAX 380kmH	QD102 171° ↑ 1500	QD101 081° ↑ 900
	QD100 351° 900					
FD-54F (by ATC)	(IF) FD 3900 or by ATC	QD008 222° 2400 or by ATC	ATLED 193° 1800	Fix H 207° 1800	QD108 171° ↑ 1500 MAX 380kmH	QD102 171° ↑ 1500
	QD101 081° ↑ 900	QD100 351° 900				
IDV-52F	(IF) IDVEL	QD106 344°	QD104 081° 1800 or by ATC	QD103 081° ↑ 1200 or by ATC MAX 380kmH	QD101 351° ↑ 900	QD100 351° 900
IDV-54F	(IF) IDVEL	QD106 344°	XDX 344° 1800 or by ATC MAX 380kmH	QD102 071° ↑ 1500	QD101 081° ↑ 900	QD100 351° 900
LAT-52F	(IF) LATUX	ABVER 327°	QD105 327°	QD104 351° 1800 or by ATC	QD103 081° ↑ 1200 or by ATC MAX 380kmH	QD101 351° ↑ 900
	QD100 351° 900					
LAT-54F (by ATC)	(IF) LATUX	ABVER 327°	QD103 351° ↑ 1200 or by ATC MAX 380kmH	QD101 351° ↑ 900	QD100 351° 900	

Waypoint sequence for RWY 35 holding (outbound time: 1min)

(HM) QD104	Fly over point	261° (outbound angle)	Right turn direction	1800 or by ATC	MAX 400kmH
(HM) QD008	Fly over point	013° (outbound angle)	Left turn direction	2400 or by ATC	MAX 400kmH

Waypoint sequence for RWY 17 departure

FD-61X	(CA) 171° +4% 300 MAX 350kmH	(DF) Fix H 1200 Right turn direction	VEPGI 071° 1800	MUPIK 027° 2100	QD009 014° 2400 or by ATC	FD 014° 3900 or by ATC
FD-63X (by ATC)	(CA) 171° +4.9% 800 MAX 350kmH	(CF) MUPIK 015° 2100 Left turn direction	QD009 014° 2400 or by ATC	FD 014° 3900 or by ATC		
IDV-61X	(CA) 171° +4% 1500	(DF) XDX 1800 Right turn direction	IDVEL 164°			
IDV-63X (by ATC)	(CA) 171° +4% 300 MAX 350kmH	(DF) XDX 1800 Right turn direction	IDVEL 164°			
LAT-61X	(CA) 171° +4% 1500	(CF) ABVER 171° 3600 or by ATC	LATUX 147°			

Waypoint sequence for RWY 35 departure

FD-62X	(CA) 351° 600 MAX 380kmH	(DF) MUPIK 1800 Right turn direction	QD009 014° 2400	FD 014° 3900 or by ATC		
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IDV-62X	(CA) 351° 600 MAX 380kmH	(DF) AA3 ↑ 1000 Right turn direction	URBAD 184° ↑ 1800	XDX 234° 2100	IDVEL 164°	
IDV-64X (by ATC)	(CA) 351° 600 MAX 380kmH	(DF) QD109 ↑ 1500 Right turn direction	QD201 186° 1800	URBAD 234° ↑ 1800	XDX 234° 2100	IDVEL 164°
LAT-62X	(CA) 351° 600 MAX 380kmH	(DF) AA3 ↑ 1000 Right turn direction	URBAD 184° ↑ 1800	ABVER 178° 3600 or by ATC	LATUX 147°	
LAT-64X (by ATC)	(CA) 351° 600 MAX 380kmH	(DF) QD109 ↑ 1500 Right turn direction	QD201 186° 1800	URBAD 234° ↑ 1800	ABVER 178° 3600 or by ATC	LATUX 147°
LAT-66X (by ATC)	(CA) 351° 600 MAX 380kmH	(DF) QD109 ↑ 1500 Right turn direction	QD201 186° 1800	ABVER 186° 3600 or by ATC	LATUX 147°	

Notes: The path code is TF except special explanation.

Navigation performance is RNAV1.

ZSQD AD 2.23 其它资料

1. 每年 4-10 月份为鸟情多发时段, 机场当局在飞行区内采取了驱赶措施, 以减少鸟群活动。

ZSQD AD 2.23 Other information

1. Activities of bird flocks are found from april to october. Aerodrome Authority resorts to dispersal methods to reduce bird activities.