

LSZH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZH - ZURICH

LSZH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at Aerodrome	47 27 30N 008 32 53E INT RWY 16/34, 10/28
2	Direction and distance from the CITY	9 km N Zurich
3	Elevation/Reference temperature	1416 ft 24.0°
4	MAG VAR/Annual change	0°44' E (2005.0) / 0°08' decreasing
5	AD Administration, address, telephone, telefax, telex, AFS	Unique (Flughafen Zürich AG) P.O. Box CH-8058 Zürich-Flughafen TEL: +41 (0) 43 816 21 11 (Airport Authority) +41 (0) 43 816 21 17 (GAC) FAX: +41 (0) 43 816 47 57 (Airport Authority) AFTN: LSZHJDYX E-mail: airportauthority@unique.ch Internet: http://www.flughafen-zuerich.ch
6	Types of traffic permitted (IFR/VFR)	IFR/VFR
7	Remarks	Geodetic undulation reference for ARP: 154.9 ft

LSZH AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24 refer to <u>LSZH AD 2.20</u> for Local flying restrictions
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	H24*
9	Handling	H24*
10	Security	H24
11	De-icing	H24*
12	Remarks	*) reduced capacity during night ban

LSZH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities:	All modern facilities available
2	Fuel/oil types	JET A1, AVGAS 100LL
3	Fuelling facilities/capacity	No limitations
4	De-icing facilities	OCT 01 - APR 30: De-icing assured MAY 01 - SEP 30: De-icing on request, 60 min reaction time - Remote de-icing: SR Technics - On-stand de-icing: SR Technics and Jet Aviation → § 2.20.9
5	Hangar space available for visiting aircraft	Restricted (only on short notice and O/R)
6	Repair facilities for visiting aircraft	Major aircraft repairs, major engine repairs: A 300, 310, 319, 320, 321, 330, 340, ATR 42, 72, B-737, 747, 757, 767, 777, BAE 125, Beech Jet 400, Bo-105, C 208, 425, 441, Cessna Citation all series, CL 600, 601, 604, DC-8, 9, 10, DHC-6, F-28 MK0100, G-4, 5, King Air Models, L 1011, Lear 35, 36, MD-11, 80, MU-300, Premier 1, Rockwell 690, SA 319, Sabreliner 75 A, ACFT up to 5700 kg
7	Remarks	Oxygen and related servicing AVBL.

LSZH AD 2.5 PASSENGER FACILITIES

1	Hotels	In town; 12 dayrooms at the airport; Crew restrooms at the OPS centre
2	Restaurants	Various restaurants for crews and passengers
3	Transportation	Buses, railways, taxis, car rental agencies Railway station at Zurich-Airport
4	Medical facilities	Airport Medical Centre: Open from 0800-2000 LT Tel.: +41 (0) 43 816 60 00 Quarantine station (100 persons sitting); Doctor O/R; 3 ambulances; Hospitals in town
5	Bank and Post Office	At AP and in town
6	Tourist Office	At AP and in town
7	Remarks	

LSZH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	9
2	Rescue equipment	Available
3	Capability for removal of disabled aircraft	B-747
4	Remarks	

LSZH AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Type(s) of clearing equipment	6 snow blowers, 54 snow ploughs, 17 aircraft de-icer, 4 runway de-icer
2	Clearance priorities	Depends on situation
3	Remarks	Snow removal assured - all seasons

LSZH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength		CONC - PCN 60 R/B/W/T			
2	Taxiway width, surface and strength		WID: 27 m and 23 m CONC - PCN 60 R/B/W/T			
3	ACL location and elevation		Beginning RWY 10: 1391 ft Beginning RWY 28: 1416 ft Beginning RWY 14: 1402 ft Beginning RWY 32: 1402 ft Beginning RWY 16: 1390 ft Beginning RWY 34: 1385 ft Parking sector A, B: 1396 ft Parking sector C, D, E, G, T: 1390 ft Parking sector H, I: 1400 ft Parking sector F: 1407 ft Parking sector W: 1385 ft			
4	Location of VOR checkpoints		NIL			
5	INS checkpoints					
	NR	COORD WGS84	NR	COORD WGS84	NR	COORD WGS84
			E19	47 27 41.13N 008 33 30.54E	G01	47 26 51.81N 008 33 41.24E
	A02	47 27 12.76N 008 33 31.06E	E20	47 27 37.76N 008 33 30.02E	G02	47 26 50.61N 008 33 42.23E
	A03	47 27 13.78N 008 33 40.07E	E22	47 27 37.78N 008 33 29.66E	G03	47 26 49.36N 008 33 43.09E
	A04	47 27 12.89N 008 33 29.14E	E23	47 27 41.18N 008 33 27.95E	G04	47 26 48.12N 008 33 43.94E
	A05	47 27 13.92N 008 33 38.06E	E24	47 27 37.44N 008 33 27.88E	G05	47 26 46.68N 008 33 44.89E
	A07	47 27 14.06N 008 33 36.04E	E25	47 27 41.23N 008 33 25.87E	G06	47 26 45.45N 008 33 45.73E
	A08	47 27 13.17N 008 33 25.29E	E26	47 27 37.79N 008 33 26.54E	G07	47 26 44.28N 008 33 45.15E
	A09	47 27 14.21N 008 33 34.02E	E27	47 27 41.50N 008 33 24.52E	G08	47 26 44.80N 008 33 46.78E
	A10	47 27 13.31N 008 33 23.37E	E28	47 27 37.54N 008 33 25.81E	G11	47 26 46.49N 008 33 45.12E
	A11	47 27 14.58N 008 33 28.77E	E29	47 27 41.33N 008 33 23.80E	G12	47 26 45.32N 008 33 44.98E
	A13	47 27 14.73N 008 33 26.76E	E32	47 27 38.19N 008 33 23.24E		
	A15	47 27 14.87N 008 33 24.74E	E33	47 27 41.86N 008 33 21.79E		
	A17	47 27 15.01N 008 33 22.72E	E34	47 27 38.01N 008 33 22.52E	H11	47 27 20.68N 008 33 41.82E
	A43	47 27 13.79N 008 33 39.83E	E35	47 27 41.76N 008 33 21.08E	H12	47 27 21.01N 008 33 37.44E
	A44	47 27 12.55N 008 33 34.00E	E36	47 27 37.98N 008 33 21.12E	H13	47 27 21.25N 008 33 34.14E
	A45	47 27 13.99N 008 33 37.11E	E37	47 27 41.97N 008 33 19.72E	H81	47 27 20.24N 008 33 42.75E
	A46	47 27 12.80N 008 33 30.42E	E42	47 27 38.29N 008 33 19.08E	H82	47 27 19.13N 008 33 42.57E
	A47	47 27 14.18N 008 33 34.38E	E43	47 27 41.86N 008 33 17.62E	H85	47 27 20.87N 008 33 38.27E
	A48	47 27 13.03N 008 33 27.21E	E44	47 27 38.23N 008 33 16.98E	H86	47 27 20.99N 008 33 36.63E
	A49	47 27 14.40N 008 33 31.27E	E45	47 27 42.11N 008 33 15.57E	H87	47 27 21.10N 008 33 34.99E
	A50	47 27 13.26N 008 33 24.01E	E46	47 27 38.54N 008 33 15.64E	H88	47 27 21.22N 008 33 33.35E
	A51	47 27 14.60N 008 33 28.54E	E47	47 27 42.10N 008 33 14.17E		
	A53	47 27 14.79N 008 33 25.80E	E48	47 27 38.29N 008 33 14.91E	I01	47 27 21.70N 008 33 27.50E
	A5M	47 27 14.96N 008 33 25.99E	E49	47 27 42.06N 008 33 13.47E	I02	47 27 21.87N 008 33 25.00E
	A55	47 27 14.99N 008 33 23.08E	E50	47 27 38.92N 008 33 12.91E	I03	47 27 22.15N 008 33 21.23E
	A57	47 27 15.17N 008 33 20.50E	E51	47 27 42.68N 008 33 10.90E	I04	47 27 22.31N 008 33 18.91E
	A59	47 27 15.17N 008 33 20.50E	E52	47 27 38.75N 008 33 12.19E	I05	47 27 22.46N 008 33 16.75E
			E53	47 27 42.41N 008 33 10.16E	I21	47 27 21.65N 008 33 28.12E

		E54	47 27 38.88N 008 33 10.82E	I90	47 27 20.39N 008 33 26.84E
B2M	47 27 01.05N 008 33 30.54E	E55	47 27 42.80N 008 33 08.83E	I91	47 27 21.13N 008 33 28.08E
B3M	47 27 01.21N 008 33 28.33E	E56	47 27 39.15N 008 33 08.78E	I92	47 27 20.57N 008 33 24.37E
B4M	47 27 01.39N 008 33 26.17E	E58	47 27 38.64N 008 33 06.58E	I93	47 27 21.31N 008 33 25.61E
B5M	47 27 02.96N 008 33 24.10E	E62	47 27 39.91N 008 33 05.68E	I94	47 27 20.86N 008 33 20.27E
B31	47 27 05.00N 008 33 32.37E	E63	47 27 42.94N 008 33 04.68E	I95	47 27 21.61N 008 33 21.51E
B33	47 27 05.25N 008 33 28.84E	E64	47 27 41.13N 008 33 04.63E	I96	47 27 21.04N 008 33 17.80E
B35	47 27 05.98N 008 33 25.68E	E65	47 27 43.57N 008 33 03.94E	I97	47 27 21.78N 008 33 19.04E
B37	47 27 06.14N 008 33 23.55E	E66	47 27 42.25N 008 33 03.70E	I98	47 27 22.14N 008 33 16.50E
B39	47 27 05.36N 008 33 24.43E	E67	47 27 42.36N 008 33 04.05E		
		E68	47 27 43.32N 008 33 02.97E	T42	47 26 37.08N 008 33 59.56E
C01	47 26 57.38N 008 33 27.17E	E69	47 27 44.39N 008 33 02.23E	T43	47 26 36.41N 008 33 58.23E
C02R	47 26 56.92N 008 33 30.30E			T44	47 26 35.52N 008 33 56.36E
C02F	47 26 56.15N 008 33 28.12E	F60	47 27 19.95N 008 33 52.60E	T45	47 26 46.42N 008 33 59.74E
C03R	47 26 55.69N 008 33 31.24E	F61	47 27 19.83N 008 33 54.18E	T46	47 26 45.08N 008 34 00.31E
C03F	47 26 54.92N 008 33 29.00E	F62	47 27 19.71N 008 33 55.78E	T50	47 26 45.96N 008 33 48.89E
C04R	47 26 54.46N 008 33 32.16E	F63	47 27 19.60N 008 33 57.36E	T51	47 26 46.69N 008 33 49.33E
C04F	47 26 53.69N 008 33 29.95E	F64	47 27 19.49N 008 33 58.96E	T52	47 26 46.94N 008 33 50.29E
C05R	47 26 53.24N 008 33 33.08E	F65	47 27 19.38N 008 34 00.54E	T53	47 26 47.99N 008 33 52.60E
C05F	47 26 52.46N 008 33 30.84E	F66	47 27 19.26N 008 34 02.14E	T54	47 26 47.04N 008 33 52.30E
C11	47 26 56.75N 008 33 27.64E	F67	47 27 19.15N 008 34 03.72E	T55	47 26 48.69N 008 33 57.08E
C21	47 26 54.85N 008 33 29.06E	F70	47 27 19.99N 008 33 52.24E	T56	47 26 48.33N 008 33 53.50E
C22	47 26 52.75N 008 33 30.62E	F71	47 27 19.84N 008 33 54.42E	T57	47 26 43.04N 008 33 54.57E
		F72	47 27 19.68N 008 33 56.61E	T58	47 26 41.50N 008 33 55.68E
D01	47 26 48.62N 008 33 34.70E	F73	47 27 19.53N 008 33 58.79E		
D02	47 26 47.24N 008 33 35.13E	F74	47 27 19.37N 008 34 00.97E	W01	47 26 53.01N 008 32 56.85E
D03	47 26 45.99N 008 33 35.99E	F75	47 27 19.22N 008 34 03.16E	W02	47 26 53.64N 008 32 58.82E
D04	47 26 44.74N 008 33 36.84E	F76	47 27 19.04N 008 34 05.64E	W03	47 26 54.31N 008 33 00.96E
D05	47 26 43.50N 008 33 37.70E	F77	47 27 18.88N 008 34 07.82E	W04	47 26 55.07N 008 33 03.36E
D06	47 26 42.25N 008 33 38.56E	F78	47 27 18.73N 008 34 10.01E	W05	47 26 55.63N 008 33 05.13E
D07	47 26 41.00N 008 33 39.42E			W21	47 26 53.20N 008 32 57.43E
D08	47 26 39.76N 008 33 40.28E			W22	47 26 54.19N 008 33 00.57E
D11	47 26 46.53N 008 33 35.30E			W23	47 26 55.30N 008 33 04.07E
D12	47 26 44.29N 008 33 36.84E				
D13	47 26 42.17N 008 33 38.30E				
D14	47 26 40.04N 008 33 39.76E				
D21	47 26 46.57N 008 33 35.58E				
D22	47 26 43.78N 008 33 37.50E				
D23	47 26 40.93N 008 33 39.46E				
				ARP	47 27 29.50N 008 32 52.80E

6 Remarks

LSZH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	<p>Dock A, B and E Safegate Aircraft Docking Guidance System "Safedock"</p> <p>Routine docking manoeuvre:</p> <ul style="list-style-type: none"> • Check for correct ACFT type displayed (ICAO designator) • Do not proceed beyond the bridge unless the floating arrows have been superseded by the yellow centre line bar • Red arrow shows direction to turn • Yellow arrow shows position in relation to centre line • The absence of any direction arrow indicates the aircraft on centre line • Display of digital countdown in meters starts 20 m before stop position • 12 m before stop position the closing rate will be indicated by turning off one row of the yellow centre line bar per 0.5 metres covered by the ACFT • At the stop position the display will show "STOP" with red light squares, followed by "OK" <p>In case of malfunction request assistance from APRON CONTROL</p> <p>Detailed system description, docking procedure, fault messages and safety procedures with corresponding graphics is available under: http://www.unique.ch/manuals</p> <p>Stop at parking positions C, D, E (65, 66, 68 and 69), F, G, H, I, T, W: Stop bar markings are located to the left with a 90 degree angle to the guide lines. Aircraft has to be stopped with the pilot seat abeam the stop-bar. (REF: <u>LSZH AD 2.24.3 - 1</u>, inset)</p>
2	RWY/TWY markings and LGT	RWY Centre lines, thresholds, touchdown zone; Taxiway centre line, holding positions, taxi-out lines; apron heliport ICAO markings (REF: <u>LSZH AD 2.24.1 - 1</u>)
3	Stop bars	LIH R: <u>LSZH AD 2.24.3 - 1</u> and <u>LSZH AD 2.24.3 - 3</u>
4	Remarks	RWY-16: Turn Pad at THR 16. Turns are executed from left to right only. (REF: <u>LSZH AD 2.24.1 - 1</u>)

LSZH AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling area and at aerodrome			3
1			2			3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Co-ordinates	Obstacle type Elevation Markings/LGT	Co-ordinates	RMK	
a	b	c	a	b	c	
		ft		ft		
AOC 16	Tower/Mast LGTD A0116/01	1457 47 26 18 N 008 33 52 E	Crane/Cranes marked/LGTD A0085/01	1496 47 27 35 N 008 33 33 E		
AOC 16	Crane/Cranes marked/LGTD A0157/01	1539 47 25 33 N 008 34 05 E	Building LGTD A0096/01	1483 47 27 27 N 008 34 25 E		
AOC 32	Tree/Trees	1476 47 29 25 N 008 31 27 E	Pole marked/LGTD A0010/02	2198 47 26 32 N 008 43 13 E		
AOC 32	Tree/Trees	1460 47 29 13 N 008 31 54 E	Building LGTD A0390/02	1690 47 24 49 N 008 33 10 E		
AOC 32	Tree/Trees	1450 47 29 11 N 008 31 56 E	Crane/Cranes marked/LGTD A0243/01	1581 47 26 12 N 008 34 17 E		
AOC 34	Tree/Trees	1532 47 29 35 N 008 31 43 E	Crane/Cranes marked/LGTD A0087/01	1768 47 24 49 N 008 33 09 E		
AOC 34	Tree/Trees	1473 47 29 03 N 008 31 42 E	Radar marked/LGTD A0393/02	1526 47 27 52 N 008 33 03 E		
AOC 34	Tree/Trees	1572 47 29 55 N 008 31 24 E	Antenna marked/LGTD A0045/01	1539 47 27 06 N 008 34 17 E		
AOC 16	Antenna	1398 47 26 37 N 008 33 29 E	Church A0178/00	1581 47 25 56 N 008 34 38 E		
AOC 28	Building LGTD	1434 47 27 29 N 008 31 42 E	Antenna LGTD A0194/01	1604 47 23 27 N 008 31 14 E		
AOC 28	Building	1437 47 27 36 N 008 31 41 E	Antenna marked/LGTD A0281/00	1401 47 26 59 N 008 33 08 E		
AOC 28	Building	1440 47 27 36 N 008 31 37 E	Antenna LGTD A0285/00	1591 47 26 56 N 008 34 33 E		
AOC 14	Building LGTD	1457 47 27 16 N 008 34 14 E	Crane/Cranes marked/LGTD A0283/00	1683 47 25 49 N 008 32 43 E		
AOC 16	Building	1411 47 26 30 N 008 33 29 E	Crane/Cranes marked/LGTD A0332/00	1555 47 26 46 N 008 33 00 E		
AOC 16	Building	1417 47 26 28 N 008 33 28 E	Antenna marked/LGTD	1591 47 26 59 N 008 34 26 E		
AOC 10	Building	1434 47 27 20 N 008 34 30 E	Tower/Mast LGTD	1683 47 26 30 N 008 34 55 E		

In approach/TKOF areas			In circling area and at aerodrome		
1			2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Co-ordinates	Obstacle type Elevation Markings/LGT	Co-ordinates	RMK
a	b	c	a	b	c
		ft		ft	
AOC 16	Building	1421 47 26 24 N 008 33 45 E	Crane/Cranes marked/LGTD	1516 47 23 35 N 008 30 29 E	
AOC 16	Building	1427 47 26 21 N 008 33 48 E	Tower LGTD	1550 47 27 14 N 008 33 28 E	
AOC 16	Building	1434 47 26 19 N 008 33 45 E	Antenna LGTD	1473 47 28 43 N 008 31 47 E	
AOC 10	Building	1493 47 27 24 N 008 34 46 E	Antenna	1703 47 28 16 N 008 30 11 E	
AOC 16	Building	1447 47 26 17 N 008 33 50 E	Crane/Cranes marked/LGTD A0026/01	1532 47 27 30 N 008 34 25 E	
AOC 16	Building	1447 47 26 17 N 008 33 49 E	Antenna marked/LGTD	1699 47 25 22 N 008 32 14 E	
AOC 16	Building	1440 47 26 16 N 008 33 39 E	Building LGTD	1476 47 27 29 N 008 34 24 E	
AOC 16	Building	1444 47 26 17 N 008 33 42 E			
AOC 10	Building	1509 47 27 14 N 008 35 02 E	Antenna LGTD	1532 47 26 43 N 008 32 57 E	
AOC 16	Building LGTD	1506 47 25 44 N 008 33 52 E	Tree/Trees	1611 47 26 31 N 008 34 20 E	
AOC 16	Building	1512 47 25 45 N 008 34 12 E	Building	1532 47 27 13 N 008 34 13 E	
AOC 16	Building	1552 47 25 29 N 008 34 29 E	Antenna LGTD	1545 47 27 14 N 008 33 52 E	
AOC 16	Building	1558 47 25 27 N 008 34 30 E	Antenna LGTD	1421 47 27 26 N 008 32 44 E	
AOC 28	Tower/Mast	1417 47 27 30 N 008 31 53 E	Crane/Cranes marked/LGTD A0449/00	1535 47 23 32 N 008 30 50 E	
AOC 28	Tower/Mast	1417 47 27 38 N 008 31 48 E	Crane/Cranes marked/LGTD A0450/00	1568 47 29 33 N 008 32 52 E	
AOC 14	Tower/Mast LGTD	1493 47 27 15 N 008 34 20 E	Crane/Cranes marked/LGTD A0090/01	1627 47 27 00 N 008 33 47 E	
AOC 10	Tower/Mast	1437 47 27 20 N 008 34 30 E	Crane/Cranes marked/LGTD A0097/01	1782 47 28 11 N 008 35 01 E	
AOC 10	Tower/Mast	1437 47 27 20 N 008 34 30 E	Crane/Cranes LGTD B0131/02	2130 47 20 53 N 008 28 05 E	
AOC 10	Tower/Mast LGTD	1572 47 27 25 N 008 35 24 E	Crane/Cranes marked/LGTD A0107/02	1582 47 27 08 N 008 33 39 E	
AOC 10	Tower/Mast LGTD	1673 47 27 10 N 008 36 13 E	Pole LGTD A0289/02	1451 47 27 38 N 008 33 38 E	

In approach/TKOF areas			In circling area and at aerodrome		
1			2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Co-ordinates	Obstacle type Elevation Markings/LGT	Co-ordinates	RMK
a	b	c	a	b	c
		ft		ft	
AOC 28	Tree/Trees	1417 47 27 31 N 008 32 04 E	Pole LGTD A0288/02	1497 47 27 41 N 008 33 06 E	
AOC 28	Tree/Trees	1457 47 27 37 N 008 31 32 E	Antenna marked/LGTD A0316/02	1542 47 27 12 N 008 34 05 E	
AOC 10	Tree/Trees	1447 47 27 26 N 008 34 33 E	Antenna LGTD A0041/03	1533 47 26 12 N 008 34 17 E	
AOC 28	Tree/Trees	1496 47 27 33 N 008 31 06 E	Antenna marked A0391/02	1533 47 27 32 N 008 34 34 E	
AOC 28	Tree/Trees	1493 47 27 33 N 008 31 08 E	Antenna marked A0385/02	1441 47 29 03 N 008 32 12 E	
AOC 28	Tree/Trees	1473 47 27 33 N 008 31 10 E	Antenna marked A0387/02	1434 47 27 43 N 008 33 59 E	
AOC 10	Tree/Trees	1463 47 28 18 N 008 34 37 E	Building A0264/04	1605 47 23 08 N 008 31 52 E	
AOC 28	Tree/Trees	1503 47 27 34 N 008 31 05 E			
AOC 10	Tree/Trees	1470 47 27 18 N 008 34 41 E			
AOC 10	Tree/Trees	1480 47 27 17 N 008 34 41 E	Pole LGTD A0359/02	1444 47 27 32 N 008 33 39 E	
AOC 10	Tree/Trees	1483 47 27 25 N 008 34 45 E	Pole LGTD A0360/02	1421 47 27 41 N 008 32 47 E	
AOC 10	Tree/Trees	1486 47 27 26 N 008 34 46 E	Pole LGTD A0361/02	1500 47 27 58 N 008 32 56 E	
AOC 16	Tree/Trees	1440 47 26 16 N 008 33 44 E	Crane/Cranes marked/LGTD A0128/01	1594 47 25 54 N 008 33 36 E	
AOC 10	Tree/Trees	1499 47 27 26 N 008 34 54 E	Crane/Cranes marked/LGTD A0153/01	1624 47 27 10 N 008 33 59 E	
AOC 16	Tree/Trees	1467 47 26 16 N 008 33 53 E	Crane/Cranes marked/LGTD A0163/01	1463 47 27 22 N 008 33 44 E	
AOC 16	Tree/Trees	1460 47 26 15 N 008 33 51 E	Crane/Cranes marked/LGTD A0281/01	1598 47 25 39 N 008 33 10 E	
AOC 10	Tree/Trees	1503 47 27 26 N 008 34 55 E	Crane/Cranes marked/LGTD A0288/01	1601 47 25 38 N 008 33 18 E	

In approach/TKOF areas				In circling area and at aerodrome		
1				2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Co-ordinates		Obstacle type Elevation Markings/LGT	Co-ordinates	RMK
a	b		c	a	b	c
		ft			ft	
AOC 28	Tree/Trees	1588	47 27 32 N 008 30 43 E	Crane/Cranes A0392/04	2169	47 22 52 N 008 34 29 E
AOC 28	Tree/Trees	1558	47 27 40 N 008 30 47 E	Building LGTD A0341/01	1480	47 27 30 N 008 34 23 E
AOC 28	Tree/Trees	1621	47 27 31 N 008 30 40 E	Pole marked/LGTD A0348/01	1772	47 27 47 N 008 35 51 E
AOC 28	Tree/Trees	1604	47 27 37 N 008 30 40 E	Crane/Cranes marked/LGTD A0050/02	1654	47 25 28 N 008 35 01 E
AOC 10	Tree/Trees	1512	47 27 14 N 008 35 03 E	Crane/Cranes marked/LGTD A0198/02	1549	47 28 37 N 008 30 04 E
AOC 16	Tree/Trees	1480	47 26 03 N 008 33 43 E	Crane/Cranes marked/LGTD A0270/02	1647	47 26 46 N 008 35 05 E
AOC 10	Tree/Trees	1545	47 27 25 N 008 35 22 E	Pole LGTD A0362/02	1467	47 27 47 N 008 33 21 E
AOC 16	Tree/Trees	1496	47 25 58 N 008 34 03 E	Antenna marked/LGTD A0316/02	1542	47 27 12 N 008 34 05 E
AOC 28	Tree/Trees	1634	47 27 34 N 008 30 22 E			
AOC 10	Tree/Trees	1562	47 27 25 N 008 35 23 E			
AOC 10	Tree/Trees	1594	47 27 09 N 008 35 52 E			
AOC 10	Tree/Trees	1601	47 27 09 N 008 35 53 E			
AOC 10	Tree/Trees	1614	47 27 08 N 008 35 54 E			
AOC 10	Tree/Trees	1617	47 27 05 N 008 35 56 E			
AOC 10	Tree/Trees	1624	47 27 04 N 008 35 57 E			
AOC 10	Tree/Trees	1631	47 27 01 N 008 36 01 E			
AOC 10	Tree/Trees	1634	47 27 13 N 008 36 14 E			
AOC 10	Tree/Trees	1660	47 27 11 N 008 36 14 E			
AOC 28	Tree/Trees	1732	47 27 27 N 008 29 27 E			
AOC 10	Tree/Trees	1640	47 27 13 N 008 36 15 E			

In approach/TKOF areas				In circling area and at aerodrome		
1				2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Co-ordinates		Obstacle type Elevation Markings/LGT	Co-ordinates	RMK
a	b	c		a	b	c
		ft			ft	
AOC 10	Tree/Trees	1670	47 27 11 N 008 36 14 E			
AOC 10	Tree/Trees	1683	47 27 10 N 008 36 16 E			
AOC 28	Tree/Trees	1749	47 27 26 N 008 29 23 E			
AOC 34	Tree/Trees	1562	47 29 53 N 008 31 29 E			
AOC 28	Tree/Trees	1913	47 27 45 N 008 27 13 E			
AOC 32	Tree/Trees	1591	47 30 38 N 008 29 36 E			
AOC 32	Tree/Trees	1640	47 30 48 N 008 29 44 E			
AOC 10	Bridge	1463	47 27 27 N 008 34 41 E			
AOC 10	Crane/Cranes	1516	47 27 22 N 008 35 15 E			
AOC 34	Antenna A00436/03	1408	47 28 45 N 008 32 01 E	Crane/Cranes marked/LGTD A0019/03	1569	47 25 59 N 008 34 17 E
AOC 16	Crane/Cranes marked/LGTD A0351/02	1539	47 25 36 N 008 34 13 E	Crane/Cranes marked/LGTD A0350/02	1638	46 13 26 N 006 07 06 E
AOC 16	Building A0408/02	1414	47 26 44 N 008 33 41 E	Crane/Cranes marked/LGTD A0058/03	1588	47 26 31 N 008 33 48 E
AOC 16	Mast A0416/02	1424	47 26 26 N 008 33 38 E	Antenna LGTD A0087/03	2074	47 22 53 N 008 43 52 E
AOC 16	Building A0410/02	1437	47 26 17 N 008 33 40 E	Crane/Cranes marked/LGTD A0092/03	1562	47 28 43 N 008 30 05 E
AOC 16	Tree/Trees A0411/02	1447	47 26 19 N 008 33 50 E	Antenna A0104/03	2428	47 22 12 N 008 35 18 E
AOC 16	Tree/Trees A0412/02	1457	47 26 17 N 008 33 54 E	Crane/Cranes marked/LGTD A0132/03	1516	47 27 45 N 008 31 38 E
AOC 16	Tree/Trees A0413/02	1464	47 26 12 N 008 33 53 E	Antenna LGTD B0345/04	1398	47 27 05 N 008 33 07 E
AOC 16	Tree/Trees A0414/02	1483	47 26 11 N 008 33 58 E			
AOC 16	Tree/Trees A0415/02	1503	47 25 58 N 008 34 03 E			
AOC 16	Building LGTD A0472/04	1418	47 26 25 N 008 33 28 E	Crane/Cranes marked/LGTD A0176/03	1651	47 23 50 N 008 35 53 E

In approach/TKOF areas				In circling area and at aerodrome			
1				2			3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Co-ordinates		Obstacle type Elevation Markings/LGT	Co-ordinates	RMK	
a	b	c		a	b	c	
		ft			ft		
AOC 10	Building	1467	47 27 28 N 008 34 25 E	Antenna A0325/03	1605	47 22 19 N 008 31 38 E	
AOC 10	Building	1460	47 27 18 N 008 34 20 E	Crane/Cranes marked/LGTD A0326/03	1549	47 28 37 N 008 30 04 E	
AOC 16	Tree/Trees	1469	47 26 29 N 008 33 24 E	Tower LGTD A0428/03	2382	47 22 12 N 008 35 57 E	
AOC 14	Anemometer LGTD A0057/05	1444	47 27 30 N 008 34 01 E	Pole LGTD A0467/03	1506	47 26 38 N 008 33 41 E	
				Building LGTD B0615/03	1529	47 26 34 N 008 33 51 E	
				Building LGTD A0392/03	1470	47 26 24 N 008 33 52 E	
				Building LGTD A0393/03	1487	47 26 23 N 008 33 53 E	
				Pole LGTD A0391/03	2340	47 21 59 N 008 35 36 E	
				Pole LGTD A0390/03	2264	47 22 13 N 008 36 20 E	
				Crane/Cranes marked/LGTD A0432/03	1588	47 25 51 N 008 34 33 E	
				Crane/Cranes marked/LGTD B0634/03	1615	47 26 29 N 008 34 23 E	
				Pole LGTD A0468/03	1474	47 26 36 N 008 33 38 E	
				Antenna A0170/04	1434	47 27 43 N 008 33 59 E	
				Crane/Cranes marked/LGTD A0209/04	1598	47 25 46 N 008 34 41 E	
				Anemometer LGTD A0046/05	1421	47 27 09 N 008 32 55 E	
Refer also to <u>AOC 10/28, LSZH AD 2.24.4 - 1,</u> <u>AOC 16/34, LSZH AD 2.24.4 - 3,</u> <u>AOC 32, LSZH AD 2.24.4 - 5,</u> <u>AOC 14, LSZH AD 2.24.4 - 7</u>							

LSZH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Zurich-Airport
2	Hours of service	H24
3	Office responsible for TAF preparation Periods of validity	Zurich 9 and 18 hours
4	Type of landing forecast	Trend
5	Briefing/consultation provided	Briefing officer, self-briefing system, telephone
6	Flight documentation Language(s) used	Fr, En, Ge
7	Charts and other information available for briefing or consultation	All area forecast charts available worldwide
8	Supplementary equipment available for providing information	Weather Radar, Satellite Pictures
9	ATS units provided with information	Zurich
10	Additional information (limitation of service, etc.)	TEL: 0900 162 737 MWO

LSZH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE and MAG* BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY REF AD 1.1.6	THR COORD	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
16	155° GEO 154° MAG	3700 x 60	CONC PCN 60 R/B/W/T	47 28 32.57N 008 32 09.36E	1390 ft	Refer to LSZH AOC <u>16/34/32</u> , <u>10/28</u>
34	335° GEO 334° MAG			47 26 57.40N 008 33 14.90E	1388 ft	
10	096° GEO 095° MAG	2500 x 60	CONC PCN 60 R/B/W/T	47 27 32.19N 008 32 14.91E	1391 ft	
28	276° GEO 275° MAG			47 27 23.76N 008 34 13.61E	1416 ft	
14	137° GEO 137° MAG	3300 x 60	CONC PCN 60 R/B/W/T	47 28 55.54N 008 32 09.85E	1402 ft	
32	317° GEO 317° MAG			47 27 40.66N 008 33 52.04E	1402 ft	

* VAR (05.0): 0° 44' E

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (M)	OFZ	Remarks REF: AD 1.1, § 1.1.6.2.4.2
1	8	9	10	11	12
16		60	3820 x 300		Precision approach runway CAT III b FCT: 0.81/0.79 last 600 m not grooved
34		60	3820 x 300		Precision approach runway CAT I FCT: 0.81/0.79 first 600 m not grooved
10		60	2620 x 150		Non-instrument runway FCT: 0.87/0.85 grooved

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (M)	OFZ	Remarks REF: AD 1.1, § 1.1.6.2.4.2
1	8	9	10	11	12
28		60	2620 x 150		Non-instrument runway FCT: 0.87/0.85 grooved
14		--	3420 x 300		Precision approach runway CAT III b FCT: 0.82/0.79 grooved
32		60	3420 x 300		Non-instrument runway FCT: 0.82/0.79 grooved

LSZH AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
16	3700	3760	3700	3700	Full length
	3000	3060	3000	Not applicable	Intersection E3
34	3700	3760	3700	3230	Full length
	3270	3330	3270	Not applicable	Intersection E8
	3270	3330	3270	Not applicable	Intersection R8
	2570	2630	2570	Not applicable	Intersection E7
	2570	2630	2570	Not applicable	Intersection R7
10	2500	2560	2500	2500	Full length
28	2500	2560	2500	2500	Full length
	1900	1960	1900	Not applicable	Intersection K
14	3300	3360	3300	3150	Full length (Access only with backtrack from INT G)
	2700	2760	2700	Not applicable	Intersection G
32	3300	3360	3300	3300	Full length
	2700	2760	2700	Not applicable	Intersection H2

LSZH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ length	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (m) colour	Remarks
1	2	3	4	5	6	7	8	9	10
16	Calvert LIH; CAT II/III LIH; Simple LIL 420 m	CAT III LIH/LIL THR ID	3.0° (20.57 m)	LIH 1200 m	0-2800 m VRB LIH W, 2800- 3400 m VRB LIH R/W 3400- 3700 m VRB LIH R	LIH/LIL YCZ: 600 m	R		
34	Calvert LIH/LIL 780 m	LIH/LIL THR ID	3.3° (17.60 m)			LIH/LIL YCZ: 600 m	R		
10	Simple LIL	LIL	3.5° (22.18 m)		0-1600 m VRB LIH W, 1600- 2200 m VRB	LIL YCZ: 600 m	R		
28	Calvert LIH 630 m Simple LIL 420 m	LIH/LIL THR ID	3.3° (18.8 m)		LIH R/W 2200- 2500 m VRB LIH R	LIH/LIL YCZ: 600 m	R		

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ length	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (m) colour	Remarks
1	2	3	4	5	6	7	8	9	10
14	Calvert LIH; CAT II/III LIH	CAT III LIH THR ID	3.0° (17.40 m)	LIH 1200 m	0-2400 VRB LIH W, 2400- 3000 m VRB LIH R/W 3000- 3300 m VRB LIH R	LIH/LIL	R		YCZ: 600 m
32	Simple LIH/LIL	LIH/LIL THR ID	3.5° (28 m)			LIH/LIL	R		YCZ: 600 m

LSZH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	NIL
2	LDI location and LGT Anemometer location and LGT	WDI LGTD
3	TWY edge and centre line lighting	EDGE: LIL B Centre line: LIH G (TWY A, B, C, C1, C2, D, E, E3, E5, E7, E8, E9, F, F1, F2, H, H1, H2, H3, J, K, Z) Apron + Stop bars - refer to <u>LSZH AD 2.24.3 - 1</u> and <u>LSZH AD 2.24.3 - 3</u> Coded TWY centre line LGT to indicate ILS critical / sensitive area OPR on TWY E, E7, E8, E9, H1, H2, H3
4	Secondary power supply/switch-over time	yes / MAX switch over time: CAT I - less than 15 s CAT II/III - less than 1 s
5	Remarks	Obstacles marked and LGTD

LSZH AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO	
2	TLOF and/or FATO elevation M/FT	
3	TLOF and FATO area dimensions, surface, strength, marking	
4	True and MAG BRG of FATO	
5	Declared distance available	
6	APP and FATO lighting	
7	Remarks	

LSZH AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Zurich CTR 1 ¹⁾ 47 24 38N 008 45 30E - 47 22 31N 008 39 41E - 47 21 21N 008 23 33E - arc of circle 9 NM on 47 27 36N 008 33 02E - 47 24 38 N 008 45 30E Zurich CTR 2 ^{2) 3)} 47 23 04 N 008 41 11 E - 47 14 54 N 008 47 34 E - 47 14 12 N 008 37 08 E - 47 21 57 N 008 31 49 E - 47 22 31 N 008 39 41 E - 47 23 04 N 008 41 11 E
2	Vertical limits	CTR 1: 4500 ft AMSL (1350 m) CTR 2: 5500 ft AMSL (1700 m)
3	Airspace classification	D
4	ATS unit call sign Language(s)	Zurich TWR ¹⁾ En
5	Transition altitude	7000 ft
6	Remarks	¹⁾ CTR 1 prohibited for balloon and GLD ACT, EXC and regulations REF: ENR 5.5 ²⁾ EXC and regulations for CTR 2 REF: ENR 5.5 ³⁾ ACT: MON - FRI 0000 - 0715 LT and 2045 - 2400 LT SAT/SUN* 0000 - 0915 LT and 1945 - 2400 LT (* incl. German holidays)

LSZH AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
ATIS		128.525 MHz	H24	REF: GEN 3.3.3.5 ^{1) 2) 3) 5)} TEL Service +41 (0) 43 816 22 94
APP/SR VDF*	Zurich Arrival do. do. Zurich Departure Zurich Final	118.000 MHz 120.750 MHz 119.700 MHz 125.950 MHz 125.325 MHz	H24 H24 H24 H24 HX**	ARR ACFT via GIPOL ARR ACFT via AMIKI and RILAX DEP ACFT **only on ATC instruction
TWR VDF*	Zurich Tower do. do.	118.100 MHz 120.225 MHz 119.700 MHz	H24 H24 H24	Primary APCH RWY 14 and TKOF RWY 32
Terminal VDF*	Zurich Terminal	127.750 MHz	H24	VFR FLT within LSZH TMA
CLR DEL	Zurich Delivery	121.800 MHz	H24	Start-up and ATC clearance for IFR, NVFR
GND VDF*	Zurich Ground	121.900 MHz 118.100 MHz 119.700 MHz	H24 H24 H24	Primary
De-icing	Pad Coordinator F	121.650 MHz	AVBL if MET COND requires	REF: LSZH AD 2.20.9
	Pad Coordinator C	121.600 MHz	AVBL if MET COND requires	REF: LSZH AD 2.20.9
	Pad Coordinator HOLDING BAY 10	130.375 MHz	AVBL if MET COND requires	REF: LSZH AD 2.20.9
	Pad Coordinator D13/D14	130.375 MHz	AVBL if MET COND requires	REF: LSZH AD 2.20.9

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
	De-icing Coordination	130.375 MHz	2) 0400-2230*	2) OCT 01 - APR 30
APRON	Zurich Apron	121.750 MHz	0430-2230	South of RWY 28
	do.	121.700 MHz	0430-2230	ALTN FREQ
	do.	121.850 MHz	0430-2230	North of RWY 28
	do.	121.975 MHz	0430-2230	ALTN FREQ
ZURICH AREA				
ATC/VDF*	Swiss Radar	128.050 MHz	H24	Language: En Southern part FL 240 and below
	do.	136.150 MHz	H24	Northern part FL 240 and below
	do.	135.675 MHz	H24	Western part FL 240 and below
	do.	133.900 MHz	H24	Eastern part FL 240 and below
ATC	do.	131.150 MHz	HX	AMIKI holding stack
ATC	Zurich Arrival	119.925 MHz	H24	ARR/DEP EDNY and LSZR
ATC/VDF*	Swiss Radar	133.050 MHz	H24	FL 250 to FL 280
	do.	CH: 132.815	H24	FL 290 to FL 320
	do.	CH: 134.605	H24	FL 330 to FL 350
	do.	CH: 133.405	H24	FL 360 and above
	do.	266.350 MHz	H24	FL 290 to FL 350, for non-8.33 EQPT State flights
	do	284.325 MHz	H24	FL 360 and above, for non-8.33 EQPT State flights
ATC/VDF*	Zurich Delta	119.225 MHz	H24	VFR FLT within class C and D airspaces Languages: En, Ge
FIC/VDF*	Zurich Information	124.700 MHz	H24	VFR FLT Languages: En, Ge
ATC/FIC		126.225 MHz	HX	Alternate FREQ for all FREQ used in Zurich ATC and FIC
Immarsat satellite	Zurich ATC centre supervisor		H24	Use no. 426902 for phone calls from aircraft. Non-routine flight safety calls only
		121.500 MHz	H24	Language: En Emergency channel

* VDF REC antenna PSN: 472701N 083437E

LSZH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
TRASADINGEN DVOR/DME (VAR 0° 11' W)	TRA	114.30 MHz 90X	H24	47 41 22.2N 008 26 13.1E	1850 ft	PSN: 343° MAG, 13.5 NM FM THR 16. DOC 100 NM / 50'000 ft
KLOTEN DVOR/DME (VAR 0° 10' W)	KLO	114.85 MHz 95Y	H24	47 27 25.7N 008 32 44.1E	1410 ft	PSN: 237° MAG, 0.12 NM FM ARP. DOC 50 NM / 25'000 ft VOR partially UNREL BTN R235 and R245 BLW 7400 ft AMSL and BTN R040 and R080 BLW 5200 ft AMSL. DME partially UNREL BLW 10'600 ft AMSL.
ZURICH EAST DVOR/DME (VAR 0° 06' W)	ZUE	110.05 MHz 37Y	H24	47 35 31.8N 008 49 03.6E	1730 ft	PSN: 054° MAG, 13.6 NM FM ARP. DOC 80 NM / 50'000 ft range 40 NM in sector 225° - 300°

Type Category (Variation)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
HOCHWALD DVOR/DME (VAR 0° 24' W)	HOC	113.20 MHz CH 79X	H24	47 27 59.6N 007 39 55.6E	2425 ft	DOC 60 NM / 50'000 ft, range 100 NM in sector 270° - 090°
WILLISAU VOR/DME (VAR 0° 00')	WIL	116.90 MHz CH 116X	H24	47 10 41.9N 007 54 21.3E	2417 ft	DOC 50 NM / 25'000 ft
ILS 14-LLZ CAT III	IKL	108.30 MHz	H24	47 27 32.6N 008 34 03.0E		PSN: 340 m FM THR 32 RWY 14: LLZ course 137° MAG. Front course sector angle 3.5°
GP 14		334.10 MHz	H24	47 28 49.9N 008 32 25.4E		Angle 3°. 120 m E RCL; 347 m FM THR 14. GP HGT THR 14: 53 ft/16.2 m
DME 14		20X	H24	47 28 49.7N 008 32 25.6E	1460 ft	Co-located with GP zero range THR 14
MKR	K	75 MHz	H24	47 27 35.4N 008 34 06.4E		PSN: 348 m FM THR 32
ILS 16-LLZ CAT III	IZH	110.50 MHz	H24	47 26 36.5N 008 33 29.2E		PSN: 712 m FM THR 34 RWY 16: LLZ course 154° MAG. Front course sector angle 3.1°. LLZ coverage area reduced to 5° l/r CL. Caution: low clearance signal level outside reduced coverage area.
GP 16		329.60 MHz	H24	47 28 23.0N 008 32 22.3E		Angle 3°. 120 m E RCL; 384 m FM THR 16. GP HGT THR 16: 55 ft/16.8 m
DME 16		42X	H24	47 28 23.0N 008 32 22.9E	1400 ft	Co-located with GP zero range THR 16
ILS 34-LLZ CAT I	IZS	110.75 MHz	H24	47 28 44.6N 008 32 01.1E		PSN: 409 m FM THR 16 RWY 34: LLZ course 334° MAG. Front course sector angle 3.32°
GP 34		330.05 MHz	H24	Radiating point: 47 27 04.6N 008 33 07.1E		Angle 3.3°. 54 m W RCL; 272 m FM THR 34. GP HGT THR 34: 51 ft/15.5 m
DME 34		44Y	H24	47 27 04.5N 008 33 06.6E	1410 ft	

LSZH AD 2.20 LOCAL TRAFFIC REGULATIONS**2.20.1 Local flying restrictions and remarks****2.20.1.1 General**

According to Art. 39 of the ordinance concerning the aviation infrastructure (OAI) utmost restraint will be exercised when granting authorization for take-off and landing at night between 2100* and 0500* UTC. Air carriers may not expect that authorizations for night flight movements will be granted systematically for the period from 2100* until 0500* UTC.

* ETE adjust by minus 1 HR

2.20.1.2 Scheduled Air Traffic

(including supplementary flights and rerouted flights but excluding alternate landings)

2.20.1.2.1 Departures and landings can be planned between 0500* and 2300* UTC (see § 2.20.2.1)

2.20.1.2.2 Departure

2.20.1.2.2.1 A Pilot in command can only expect to receive a departure clearance if he is ready to start the engines at 2245* UTC at the latest.

2.20.1.2.2.2 Departures are not permitted between 2330* and 0500* UTC. Exemptions can only be authorized by the Airport Authority in unforeseen and exceptional cases.

2.20.1.2.3 Approach

2.20.1.2.3.1 Landings are not permitted between 2330* and 0500* UTC. Exemptions can only be authorized by the Airport Authority in unforeseen and exceptional cases.

2.20.1.3 Non-scheduled commercial air traffic

(including non scheduled flights of scheduled airlines)

2.20.1.3.1 Departures and landings can be planned between 0500* and 2200* UTC.

2.20.1.3.2 Departure

2.20.1.3.2.1 A Pilot in command can only expect to receive a departure clearance if he is ready to start the turbo-jet or turbo-prop engine or, in the case of piston engine aircraft, if he is ready to taxi at 2145* UTC at the latest. Departures are not permitted between 2230* and 0500* UTC. Exemptions can only be authorized by the Airport Authority in unforeseen and exceptional cases.

2.20.1.3.2.2 Departures of Charter flights can be planned between 0500* and 2100* UTC. A Pilot in command can only expect to receive a departure clearance if he is ready to start the engine at 2045* UTC at the latest. Departures are not permitted between 2130* and 0500* UTC. Exemptions can only be authorized by the Airport Authority in unforeseen and exceptional cases.

2.20.1.3.3 Approach

2.20.1.3.3.1 Landings are not permitted between 2230* and 0500* UTC. Exemptions can only be authorized by the Airport Authority in unforeseen and exceptional cases.

2.20.1.4 Private traffic

2.20.1.4.1 Departure and landing are not permitted between 2100* and 0500* UTC.

* ETE adjust by minus 1 HR

2.20.1.4.2 *Departure*

A Pilot in command can only expect to receive a departure clearance if he is ready to start the turbo-jet or turbo-prop engine or, in the case of piston engine aircraft, if he is ready to taxi at 2045* UTC at the latest.

2.20.1.4.3 For NVFR flights the checkpoints CITY, BREMGARTEN or ATTIKON will be applicable.

2.20.1.5 **Exemptions****2.20.1.5.1** Urgent flights

- Urgent flights with special authorization by FOCA, namely State aircraft with Diplomatic Clearance;
- Search and rescue flights;
- Police and supervision flights;
- Flights carrying sick or injured persons;
- Relief flights in disaster cases;
- Forced landing due to technical or other safety reasons;
- Alternate landing due to meteorological conditions.

2.20.1.5.2 Permission requests

In justified cases, the Airport Authority may grant exemptions on request for particular or specified cases not stipulated in paragraph 15.

An application for such requests shall be submitted to:
Zurich Airport Authority TEL: +41 (0) 43 816 21 11

2.20.2 **Permission request procedures****2.20.2.1** **General**

Air Carriers may not expect a systematically slot allocation for night flight movements for the period from 2045* and 0500* UTC. All slot requests will be finally authorized by Slot Coordination Switzerland in order to obtain the local noise restrictions.

2.20.2.2 **Scheduled air traffic and charter flights**

Scheduled air traffic and charter flights are subject to schedule co-ordination made by Slot Coordination Switzerland. Permission requests for slots shall be submitted to:

Slot Coordination Switzerland SITA ZRHACXH or e-mail: info@slotcoord.ch

2.20.2.3 **Other non-scheduled commercial air traffic as well as non-commercial air traffic**

2.20.2.3.1 Non scheduled commercial air traffic and non-commercial air traffic are subject to co-ordination requirement: PPR

2.20.2.3.1.1 Additionally, two outbound and two inbound slots per hour are available for IFR non scheduled commercial air traffic (jets and turbo-prop) MAX 72 hours in advance.

* ETE adjust by minus 1 HR

2.20.2.3.2 Due to limited stands, aircraft with a wing span larger than 24 meters are subject to permission from the airport operator for the parking time.

2.20.2.3.3 Permissions for VFR movements will be given for one of the following periods: 0500* - 0859*; 0900* - 1059*; 1100* - 1259*; 1300* - 1659*; 1700* - 1859*; 1900* - 2059* UTC

Note: Between 0600* - 1200*; 1900* - 2100* UTC movement permissions may not be expected due to almost reached capacity limits caused by scheduled and non-scheduled air traffic.

2.20.2.3.3.1 Requests for each VFR movement shall be made for the preferred landing or take-off time, whereas the permission is valid for the entire period.

2.20.2.3.4 Permissions shall be requested between 0700* - 1600* UTC from

Unique
(Flughafen Zürich AG)
Slot Management
TEL: +41 (0) 43 816 46 37
FAX: +41 (0) 43 816 73 79
e-mail: slot.gasc@unique.ch
AFTN: GG LSZHYGYX
SITA: ZRHAMPP

After closing hours, short-notice requests should be made to: TEL: +41 (0) 43 816 73 16
1600* - 2100* UTC for IFR-flights within the next 24h or cancellation of VFR-flights.
0530* - 0700* UTC only IFR-flights for the actual day.

2.20.2.3.4.1 Permission requests shall contain the following data:

- New request, modification or cancellation;
- Registration mark;
- Type of flight /IFR, test or instruction flight;
- ACFT type;
- LDG and/or TKOF;
- Date;
- Origin;
- ETA in UTC over the initial approach fix (GIPOL, AMIKI, RILAX);
- Estimated Off-Block Time (EOBT LSZH in UTC);
- FLT NR / Call sign.

2.20.2.3.4.2 Slot Management co-ordinate ATC slots in co-operation with the Flow Management Position (FMP) of Zurich ACC.

2.20.2.3.4.3 This additional service, based on the airport slot, will apply exclusively to general aviation departures.

2.20.2.3.4.4 Airport slots have to be requested before filling any flight plan, by calling
TEL: +41 (0) 43 816 46 37. Flight plans have to be filed at least 2 HR before EOBT.

* ETE adjust by minus 1 HR

Filled FLT plans have to include EOBT based on the allocated AP slot. Acknowledgement of flight plan by IFPS has to be ensured by calling AIS TEL: +41 (0) 43 816 39 72.

- 2.20.2.3.4.5 Prior to general aviation departures all pilots/operators have to contact Slot Management: TEL: +41 (0) 43 816 73 16 in order to reconfirm ATC slots issued and transmitted by Central Flow Management Unit (CFMU) Brussels. Prior to departure and after landing all pilots/operators shall report at the C-Office in the General Aviation Centre.
- 2.20.2.3.4.6 Application for ATC slots outside office hours will be automatically connected to FMP.
- 2.20.2.3.4.7 Modifications and cancellations of the already permitted flight as well as all modifications of the PLN times which need a new permission, shall be notified immediately to Slot Management (see § 2.20.2.3.4).
- 2.20.2.3.5 Start up or taxi clearances to IFR and VFR general aviation traffic will be delivered by Apron Control only, if the delay does not exceed 15 min to the received airport slot. If more delay is expected, a new slot has to be requested at the Slot Management.
- 2.20.2.3.6 Not subject to flight plan co-ordination and permission requirements are:
- Air traffic which has to approach Zurich Airport due to security, meteorological or technical reasons;
 - Search and rescue, urgent medical and emergency flights;
 - State aircraft flights with Diplomatic Clearance by FOCA;
 - Helicopter under VFR.
- 2.20.2.3.7 Technical check flight have to be co-ordinated with ATC TWR (TEL: +41 (0) 43 816 39 03) at least one hour prior ETD. The following declarations should be stated:
- Requested flight program;
 - Routing;
 - Requested flight level;
 - Special flight program parts;
 - Duration of special flight program parts.

ATC may instruct other times and/or routings respective impose other restrictions. Subsequently a corresponding flight plan has to be filed.

2.20.3 Duty of notification for technical transit flight

- 2.20.3.1 In case that airworthiness of an aircraft is impaired by damages, technical failures or other reasons and the lawful repair of the aircraft on the spot is not possible, all take-off of technical transit flight from Zurich Airport are subject to approval from the Airport Authority. Such a flight has to be notified to the Airport Authority by FAX +41 (0) 43 816 47 57, prior to the submission of the ATC flight plan.

This message shall contain the following data:

- Purpose of the planned transit flight;
- Planned flight route;
- Kind and dimensions of the impairment of airworthiness;
- Any possible restrictions of the aircraft manufacturer and/or the authority of the state of registry.

2.20.3.2 The approval will be confirmed by the Airport Authority.

In order to judge the circumstances, required specialists (FOCA, maintenance agencies at the AP, air traffic services) can be called in.

2.20.4 Notification of ground time

For non-scheduled commercial flights and for private flights with aeroplanes and HEL, an indication of the ground elapse time in the flight plan under item 18 is required provided such flight plan is prescribed (e.g. RMK/ground time 2 HR). Parking sectors 1 to 7 ground time more than 48 HR: On request by airport authority only on TEL: +41 (0) 43 816 21 17.

2.20.5 Special regulations for TMA/CTR ZURICH

Procedures for: IFR; VFR; noise abatement and VFR flight of non-radio aircraft.

2.20.6 Guidance of ACFT on apron/Apron Control

2.20.6.1 General

The Airport Authority is operating a ground control radio station (way securing service) with call sign „Zurich Apron“.

Sprache/Language: En

2.20.6.2 Area of responsibility

The exact boundary of the area of responsibility is shown on the chart LSZH AD 2.24.3 - 1 and LSZH AD 2.24.3 - 3.

2.20.6.3 Operational hours

2.20.6.3.1 Radio contact with Apron Control is available from 0430* til 2230* UTC.

2.20.6.3.2 Between 2230* and 0430* UTC, aircraft on the apron are guided by „Follow me“ car if needed/requested.

2.20.6.3.3 In exceptional conditions the radio contact with Apron Control will also be available after 2230* UTC.

2.20.6.4 Procedures

2.20.6.4.1 Clearances

Apron Control will only issue clearances which apply to area of responsibility. In particular, a clearance to taxi to a take-off runway **does not** include the clearance to cross a runway or to taxi onto that runway.

2.20.6.4.2 Transmission of messages

2.20.6.4.2.1 Apron Control will only transmit messages belonging to its competence.

2.20.6.4.2.2 Handling requests will not be transmitted by Apron Control.

* ETE adjust by minus 1 HR.

2.20.6.4.3 Arriving aircraft

2.20.6.4.3.1 Arriving aircraft shall taxi independently to the parking position as instructed by Apron Control.

2.20.6.4.3.2 If, while taxiing into a dock-parking position, the crew notices that the docking guidance system has not been put into operation or is otherwise unserviceable, they shall stop the aircraft immediately.

The unserviceability has to be notified on the Apron Control frequency.

The aircraft shall not taxi any further, until a „Follow-me“ car has taken over the guidance.

2.20.6.4.3.3 General Aviation aircraft shall taxi to the published GA sectors as instructed by Apron Control. The final guidance will be provided by marshaller.

2.20.6.4.4 Departing aircraft**2.20.6.4.4.1 General**

Zurich airport operates a departure traffic management system called "darts". For every departure, the system calculates the earliest possible off-block or start-up time. This calculation is based on STD or ETD, ATC slot, SID, departure fix, wake turbulence category, aircraft type, the operational RWY concept and the taxi time from the parking stand to the departure RWY.

Accurate ETD Management is therefore a prerequisite for a punctual departure.

Crews shall request the ATC clearance in accordance with the following procedures - otherwise the flight will be affected by additional delay, when the ACFT is not fully ready at the declared time.

2.20.6.4.4.1.1 ATC Clearance**2.20.6.4.4.1.1.1 Crew action prior to start-up**

1. All passengers on board;
2. All doors closed;
3. Tractor connected, if required;
4. Prepared to push-back and/or start-up without delay.

2.20.6.4.4.1.1.2 Clearance delivery

If the aircraft is ready within the next few minutes - at latest 5 minutes prior to STD/ETD or 10 minutes prior to CTOT - the crew shall contact Clearance Delivery on 121.800 MHz to request the ATC clearance.

2.20.6.4.4.1.2 Start-up and/or push-back clearance

After the ATC clearance has been issued, the aircraft will be instructed to stand-by on either Apron North 121.850 MHz or Apron South 121.750 MHz. According to the actual traffic situation and the calculation of the departure management system, Apron North or South clears the Crew for start-up and push-back (when needed) according to the planned departure time.

2.20.6.4.4.2 VFR

Aircraft operating according to VFR will directly contact „Zurich Apron“ on **121.750 MHz** (south of RWY 28) or **FREQ 121.850 MHz** (north of RWY 28). After having received a taxi clearance, pilots will be instructed to contact „Zurich Tower“ or „Zurich Ground“.

2.20.6.5 Helicopters

Helicopters will only receive instruction from ATC. Take-off and landing is only admitted on the areas officially designated for this purpose; hovering is not authorized. The Airport Authority may grant exceptions.

They contact „Zurich Tower“ on **118.100 MHz** directly.

2.20.6.6 Push-back and tow procedures

2.20.6.6.1 Aeroplanes **without** Auxiliary Power Unit (APU):

1. Request ATC clearance with „Zurich Delivery“, **FREQ 121.800 MHz**;
2. Stand by with „Zurich Apron“ on **FREQ 121.750 MHz** (south of RWY 28) or **FREQ 121.850 MHz** (north of RWY 28) for start-up;
3. Request clearance with „Zurich Apron“ on **FREQ 121.750 MHz** (south of RWY 28) or **FREQ 121.850 MHz** (north of RWY 28) for push-back resp. tow manoeuvre;
4. Push-back resp. tow manoeuvre;
5. Request taxi clearance with „Zurich Apron“ on **FREQ 121.750 MHz** (south of RWY 28) or **FREQ 121.850 MHz** (north of RWY 28).

2.20.6.6.2 Aeroplanes **with** Auxiliary Power Unit (APU):

1. Request ATC clearance with „Zurich Delivery“, **FREQ 121.800 MHz**;
2. Stand by with „Zurich Apron“ on **FREQ 121.750 MHz** (south of RWY 28) or **FREQ 121.850 MHz** (north of RWY 28) for push-back resp. tow manoeuvre;
3. Push-back resp. tow manoeuvre;
4. Request clearance with „Zurich Apron“ on **FREQ 121.750 MHz** (south of RWY 28) or **FREQ 121.850 MHz** (north of RWY 28) for start-up;
5. Request taxi clearance with „Zurich Apron“ on **FREQ 121.750 MHz** (south of RWY 28) or **FREQ 121.850 MHz** (north of RWY 28).

2.20.6.6.3 If necessary other procedures can be requested or authorized by Apron Control, e.g.: Engines start-up before or during push-back manoeuvre.

2.20.6.6.4 For the towing or push-back of an operating aeroplane a general authorization will only be given to the cockpit crew. Detailed instructions will be transmitted directly by Apron Control on the tow vehicle's FREQ to the driver after the clearance has been issued to the cockpit crew.

2.20.6.6.5 All instructions for the tow or push-back of aeroplanes with maintenance personnel in the cockpit will be transmitted directly by Apron Control on the tow vehicle's FREQ to the driver.

2.20.6.7 Miscellaneous

2.20.6.7.1 When requesting start-up, push-back, tow or taxi clearance from „Zurich Delivery“ resp. „Zurich Apron“ the parking position shall **always** be indicated.

- 2.20.6.7.2 Clearances for push-back or taxi may only be requested if the aeroplane is ready to immediately carry out the manoeuvre.
- 2.20.6.7.3 Changes of FREQ must be carried out immediately as instructed.
- 2.20.6.7.4 In exceptional operational conditions „Follow-me“ cars are available for aeroplane guidance.
- 2.20.6.7.5 For safety reasons and noise monitoring as well as to ensure proper operations, the running of engines (e.g. short and idle), not used for taxiing out, is subject to prior permission.
Permissions shall be requested either from „Zurich Apron“ on **121.750 MHz** (south of RWY 28) or FREQ **121.850 MHz** (north of RWY 28) or from the Airport Authority TEL: +41 (0) 43 816 21 11.
For run-up see § 2.21.5

2.20.7 Ground handling

- 2.20.7.1 Operators of scheduled air traffic and charter flights (including ferry- and positioning flights) are obliged to choose one of the following ground handling agents mentioned in article § 2.20.7.1.1.

2.20.7.1.1 Ground handling agents:

Swissport Zürich AG
Operation Control
BZRO
P.O. Box
CH-8058 Zurich-Airport

TEL: +41 (0) 43 812 62 53
FAX: +41 (0) 43 812 90 52
e-mail: zrh.staco@swissport.com
SITA: ZRHKCXH
FREQ: 131.650 MHz

Jet Aviation Handling Ltd.
P.O. Box
CH-8058 Zurich-Airport

TEL: +41 (0) 58 158 83 11
FAX: +41 (0) 58 158 83 15
SITA: ZRHSCPP
e-mail: jaha@jetaviation.ch
FREQ: 130.450 MHz

2.20.7.2 General aviation

Ground handling agents:

Jet Aviation Handling Ltd.
Private Aircraft Handling
P.O. Box 1513
CH-8058 Zurich-Airport

TEL: +41 (0) 58 158 84 66
FAX: +41 (0) 58 158 84 75
SITA: ZRHPPHPP
FREQ: 130.450 MHz

ExecuJet Switzerland AG
FBO
Business Aviation Center
P.O. Box 1
CH-8058 Zurich-Airport

TEL: +41 (0) 44 876 56 56
FAX: +41 (0) 44 876 56 57
SITA: ZRHEH8X
FREQ: 130.250 MHz

e-mail: flightsupport@execujet.ch
Internet: www.execujet.ch

2.20.8 Procedures for IFR departures

- 2.20.8.1 When a flight is subject to an ATC slot, the pilot shall keep listening watch on "Clearance Delivery" **121.800 MHz** 20 minutes prior to beginning of the slot.

2.20.8.2

2.20.8.3

2.20.8.4 Aircraft type must be reported with start-up clearance; indication of wake turbulence category is not necessary.

2.20.9 De-icing

2.20.9.1 All aircraft departing from LSZH are planned for remote de-icing

Exceptions:

- Pre-de-icing of aircraft parked over night
- According to exception list published in "Winter Operation at Zurich Airport"
- Manual available under <http://www.unique.ch/manuals>
- By decision of De-icing Coordination

2.20.9.2 De-icing - Status

The de-icing status at Zurich airport can be one of the two following:

2.20.9.2.1 De-icing on request

- Crew call 'DE-ICING COORDINATION' FREQ **130.375** MHz and request de-icing latest 15 minutes before STD/ETD
- Crew will be informed about the de-icing procedure foreseen (on-stand or remote de-icing)

2.20.9.2.2 General De-icing (as published by ATIS):

- All aircraft are planned for de-icing, no special request required
- Crew check with 'DE-ICING COORDINATION' FREQ **130.375** MHz which de-icing procedure foreseen (on-stand or remote de-icing)

2.20.9.3 De-icing - Procedures

2.20.9.3.1 On-stand de-icing:

- Crew request ATC Clearance when ready and de-icing completed
- Avoid blocking of ready to go flights by early start-up request

2.20.9.3.2 Remote de-icing: LSZH AD 2.24.1 - 1

- Crew confirm aircraft is ready for remote de-icing including fully ready for push-back resp. tow and/or start-up

2.20.9.4 ATC – Procedures:

2.20.9.4.1 Aircraft, de-iced on stand

- After de-icing on stand is completed, crew request ATC clearance with "ZURICH DELIVERY", FREQ **121.800** MHz
- Stand by on FREQ **121.750** MHz (South of RWY 28) or **121.850** MHz (north of RWY 28) "ZURICH APRON" for start-up and/or push-back resp. tow
- Push-back resp. tow manoeuvre
- Request taxi clearance with "ZURICH APRON" FREQ **121.750** MHz (south of RWY 28) or **121.850** MHz (north of RWY 28)

2.20.9.4.2 Aircraft foreseen for remote de-icing

- When ready for start-up and/or push back resp. tow, crew request ATC clearance with "ZURICH DELIVERY", FREQ 121.800 MHz, announcing "for remote de-icing"
- Stand by on FREQ **121.750** MHz (South of RWY 28) or **121.850** MHz (north of RWY 28) "ZURICH APRON" for start-up and/or push back resp. tow
- Push back or tow manoeuvre
- Request taxi clearance with "ZURICH APRON" FREQ **121.750** MHz (south of RWY 28) or **121.850** MHz (north of RWY 28)
- Taxi to the assigned remote de-icing pad following instructions given by 'ZURICH APRON' and 'ZURICH GROUND' FREQ **121.900** MHz
- Reaching the de-icing position within the pad, hold position and contact the remote de-icing pad coordinator on second radio set FREQ 121.600 MHz (pad Charlie) or FREQ 121.650 MHz (pad Foxtrot) or FREQ 130.375 MHz (pads D13/D14, Holding Bay 10)
- Keep monitoring ZURICH APRON or ZURICH GROUND (pad Holding Bay 10 only)

When the remote de-icing process is completed, request ZURICH APRON or ZURICH GROUND (pad Holding Bay 10 only) to continue taxiing.

- 2.20.9.4.3 Between 1st November and 31st March it is prohibited to drain the aircraft's drinking water tanks onto the tarmac.

LSZH AD 2.21 NOISE ABATEMENT PROCEDURES**2.21.1 General**

- 2.21.1.1 The following regulations are in force to avoid excessive aircraft noise in the populated areas in the vicinity of Zurich AP:
- 2.21.1.1.1 Jet aircraft not licensed in accordance with ICAO Annex 16, Volume 1, Chapter 3 are not permitted.
- 2.21.1.1.2 Deviation from published route and procedures are only permitted if the safety of the aircraft is affected; subject to Art. 27 of the ordinance concerning the aviation infrastructure (OAI).
- 2.21.1.1.3 Aircraft operators provable unable to comply with these regulations and procedures have to submit alternative procedures to the Airport Authority.
- 2.21.1.1.4 VFR flights:
Refer to VFR Manual, AD INFO, VFR RAC 4-3 LSZH

2.21.2 Approaches**2.21.2.1 ILS approach:**

- 2.21.2.1.1 The descent shall be arranged so as to maintain ENR configuration as long as possible considering safety and ATC requirements. Speed reduction and extension of landing gear and high lift devices are to be planned in such a way, that landing configuration is established and correct approach speed is reached shortly prior to or at D5 IKL respective IZH.

2.21.2.2 Other approaches:

- 2.21.2.2.1

2.21.2.2.2

2.21.2.2.3 Visual circuits shall be flown at 3000 ft AMSL or higher whenever visibility and cloud base permits. Overflying of densely populated areas is to be avoided as far as possible.

2.21.2.3 Landing RWY

Due to restrictions about the use of German airspace landing runways shall be used as follows:

2.21.2.3.1 Weekdays

2.21.2.3.1.1 Between 0500* and 0607* UTC landings shall normally be made on RWY 34.

2.21.2.3.1.2 Between 0608* and 1959* UTC landings shall normally be made on RWY 14 and 16.

2.21.2.3.1.3 Between 2000* and 0459* UTC landings shall normally be made on RWY 28.

2.21.2.3.1.4 Other runways may only be used due to operational or meteorological reasons.

2.21.2.3.2 SAT and SUN and German Holidays:

2.21.2.3.2.1 Between 0500* and 0807* UTC landings shall normally be made on RWY 34.

2.21.2.3.2.2 Between 0808* and 1859* UTC landings shall normally be made on RWY 14 and 16.

2.21.2.3.2.3 Between 1900* and 0459* UTC landings shall normally be made on RWY 28.

2.21.2.3.2.4 Other runways may only be used due to operational or meteorological reasons.

2.21.2.3.3 German holidays will be published in an AIC Series A.

2.21.2.4 Reverse thrust

More than idle reverse shall not be used except when necessitated for operational or safety reasons.

2.21.2.5 Auxiliary Power Units (APU)

2.21.2.5.1 Docking stands

Primarily, the stationary airport pneumatic and electrical service units shall be used. Alternatively, mobile units shall be used.

2.21.2.5.2 Other stands

For pneumatic and power supply of aircraft not parked at docking stands, mobile units shall be used.

* ETE adjust by minus 1 HR.

- 2.21.2.5.3 Airborne APU shall only be started:
- 2.21.2.5.3.1 To start engine, but earliest 5 minutes before off-block time.
- 2.21.2.5.3.2 If maintenance work on the aircraft makes it unavoidable; in that case the service period shall be kept as short as possible.
- 2.21.2.5.3.3 If the stationary or mobile units are not available or unserviceable for specific aircraft types. In that case APU shall be started at earliest 60 minutes before off-block time and kept in operation not more than 20 minutes after the on-block time.
- 2.21.2.5.3.4 In particular cases, the Airport Manager of the Airport Authority may permit longer service periods after the on-block time.

2.21.3 Departures

2.21.3.1 Departure routes

2.21.3.1.1 Deviations from the Standard Instrument Departure Routes (SID) published in AIP are only permitted at and above 5000 ft AMSL. Between 2101* and 0500* UTC, deviation from a SID leading into AWY A9 is only permitted at FL 80 or above with permission of Air Traffic Control.

2.21.3.2 Departure procedures

2.21.3.2.1 As far as possible a rolling take-off shall be executed. The engine-power shall be increased only after entering the take-off RWY.

2.21.3.2.2 After lift-off the maximum climb gradient considering flight safety shall be maintained.

2.21.3.2.3 For jet aircraft the climb shall be carried out as follows:

a. Fan jet equipped aircraft:

1. Take-off up to 2900 ft AMSL

- take-off power;
- lift increasing device in take-off setting;
- speed V_2+10 kt (or according to climb angle limitation).

2. When at 2900 ft AMSL

- speed V_2+10 kt (or according to climb angle limitation).
- thrust reduction to not less than climb power.

3. 2900 ft AMSL to 4500 ft AMSL

- speed V_2+10 kt (or limited by body angle).

4. At 4500 ft AMSL

- normal en-route climb speed (increase speed and retract high-lift devices).

b. Automatic measuring equipment is used to monitor adherence to § 2.21.3.2.3.

2.21.3.3 Take-off runways

2.21.3.3.1 Between 0600* and 1959* UTC normally all take-offs shall be made on runway 28.

- 2.21.3.3.2 When take-off on RWY 28 is not possible due to operational reasons, RWY 10, 34, 32, or 16 shall be used.
- 2.21.3.3.3 Between 2000* and 0559* UTC all take-off of jet aircraft shall be made on RWY 32 or 34.
- 2.21.3.3.4 Between 2000* and 0559* UTC take offs on RWY 34 shall be executed from intersection with TWY R8 unless the whole runway length is required for safety reasons.
- 2.21.3.3.5 Deviations from § 2.21.3.3.1/2/3 are permitted for safety reasons, meteorological and RWY conditions.
- 2.21.3.3.6 Aircraft exceeding noise index 96 (<http://www.unique.ch/manuals>) are not admitted for departure between 2100* and 2330* UTC.
- 2.21.3.3.7 Aircraft with a non-stop flight distance of 5000 km and above and not exceeding noise index 98 (<http://www.unique.ch/manuals>) are admitted for departure between 2100* and 2330* UTC.

2.21.4 Instruction and check flights

- 2.21.4.1 Noise abatement procedures are also applicable for instruction and check flights.
- 2.21.4.2 Deviations are admissible within a flight program approved by FOCA.

2.21.5 Run-up

- 2.21.5.1 Run-ups are tests of engine installed in the aircraft, at power settings above idle rpm.
- 2.21.5.2 On the Apron, TWY and RWY run-ups require permission from the Airport Authority. No run-ups are permitted between 2100* and 0500* UTC. Outside these hours both duration and power setting for such run-ups shall be kept at a minimum.
- 2.21.5.3 On the aprons of the maintenance base, run-ups of jet engine may only be performed when using silencers. Run-ups of prop-engine are not permitted between 2100* and 0500* UTC.
- 2.21.5.4 Exceptions:
The Airport Authority may permit run-ups of jet engine without silencers on the maintenance base:
- when the silencers cannot be used for technical or meteorological reasons;
 - if the silencers are not compatible with the type of aircraft in question.
- 2.21.5.5 SR-Technics issues special regulations for the operation of silencers. They are subject to the approval of the Airport Authority.

LSZH AD 2.22 FLIGHT PROCEDURES**2.22.1 SPECIAL REGULATIONS FOR CONTROL ZONE (CTR) AND
TERMINAL CONTROL AREA (TMA)****IFR PROCEDURE****2.22.1.1 STAR**

Procedures to be followed by arriving aircraft are contained on the charts STANDARD INSTRUMENT ARRIVAL ROUTES (NON RNAV STAR / RNAV STAR).

2.22.1.2 ILS category III

The category III instrument landing system (RWY 14 and 16) and the associated equipment are in compliance with ICAO Standard and recommended practices. Details are given in LSZH AD 2.19 and IAC.

2.22.1.3 Approach procedures:ENR 1.5.

Aircraft type must be reported at first radio contact with "Zurich Arrival"; indication of wake turbulence category is not necessary.

2.22.1.4**2.22.1.5 Special landing procedure for RWY 14 and 16 ("swing-over")**

Due to maintain an efficient air traffic flow, the ATC may propose to aircraft during an instrument approach to RWY 14 or 16 a visual final approach with landing on the other RWY of both.

On final approach and on pilots request, a visual "swing-over" to the other runway of both may be granted by ATC if the traffic situation permits.

It is the responsibility of the pilot-in-command to decide whether he accepts the "swing-over" procedure with regard to present MET conditions and operational conditions of the aircraft.

Missed approaches have to be executed according to the procedures published for the last allocated and cleared runway acknowledged by pilots.

2.22.1.6 Displaced touchdown point RWY 14 for CAT A and B aircraft

To reduce runway occupancy time, operators with CAT A and B aircraft are requested to use displaced touchdown point RWY 14 as far as practicable. This touchdown point is marked with two yellow arcs (diameter 16 m) left and right of RWY centre line and lies 1050 m beyond landing THR RWY 14.

Conditions of availability:

- Visibility 3000 m;
- No RWY contamination (snow, slush or ice).

2.22.1.7

2.22.1.7.1

2.22.1.7.2

2.22.1.7.2.1

2.22.1.7.2.2

2.22.1.7.3

2.22.1.7.4

2.22.1.7.5

2.22.1.7.6

2.22.1.7.7

2.22.1.7.8

2.22.1.8 Hold Short Operation RWY 28 (secondary intersecting RWY)

2.22.1.8.1 The hold short operation allows approaches with admitted aircraft types and in compliance with defined conditions on RWY 28 (secondary intersecting RWY) with simultaneous approaches and departures on RWY 16/34 (primary intersecting RWY). The landing distance available (LDA) on RWY 28 for this operation is **1411 m**. This distance is marked on RWY 28 with "Taxi Holding Position Marking" (Hold Short Line on the RWY) and alternating RWY guard lights on both sides of RWY.

2.22.1.8.2 The hold short operation on RWY 28 is applicable for all approach procedures on that RWY and the aircraft admitted for it according to § 2.22.1.8.5 and crews.

It is **not** allowed to apply the hold short operation under the following circumstances:

- a) The cloud ceiling is less than 450 m AGL (1500 ft AGL); or
- b) The visibility is less than 5 km; or
- c) The secondary intersecting runway (RWY 28) is wet and also subject to tail wind component; or
- d) The secondary intersecting runway (RWY 28) is affected by reported and/or detected low level wind shear; or
- e) The secondary intersecting runway (RWY 28) is contaminated for example by snow, ice, standing water or rubber deposit to the extent that aircraft braking action could be adversely affected; or
- f) The braking action on the declared reduced landing distance of the secondary intersecting runway (RWY 28) is reported or measured as less than "GOOD".

2.22.1.8.3 ATC:

- gives the clearance for hold short operation only to crews, which have confirmed to be able for it and only if the aircraft is admitted for it;
- informs both crews participating on simultaneous operation;
- ensures, that the hold short instructions transmitted together with the landing clearance are confirmed by readback.

2.22.1.8.4 Pilots:

- report, if they are able to comply with hold short procedure RWY 28;
- confirm the received traffic information;
- confirm by readback the received hold short instructions.

2.22.1.8.5 List of admitted ACFT

- All single-engine ACFT up to 5700 kg MTOM
- ATR-42-200/-300/-320 (**except** ATR-72) ICAO ACFT type designator = AT43
- Queen Air 65-B80 ICAO ACFT type designator = BE65
- Travel Air 95 ICAO ACFT type designator = BE95
- Cessna 310 ICAO ACFT type designator = C310
- Cessna 421 "Golden Eagle" ICAO ACFT type designator = C421
- Cessna 425 "Corsair/Conquest" ICAO ACFT type designator = C425
- Cessna 500, 501 "Citation I" ICAO ACFT type designator = C500
- Cessna 550, 551 "Citation II" ICAO ACFT type designator = C550
- Dash 7 ICAO ACFT type designator = DHC7
- Dash 8 (**except** DHC-8/311) ICAO ACFT type designator = DH8A
- Dornier DO-28 ICAO ACFT type designator = DO28
- Dornier DO-228 ICAO ACFT type designator = D228
- Fokker 50 ICAO ACFT type designator = F50
- Piper, Navaho, Cheyenne PA-31/31P ICAO ACFT type designator = PA31
- Piper Aztec PA-23/250 ICAO ACFT type designator = PA27
- SAAB SF-340 A and B ICAO ACFT type designator = SF34

2.22.1.9 SID

2.22.1.9.1 Procedures to be followed by departing aircraft are contained on the charts STANDARD INSTRUMENT DEPARTURE ROUTES (NON RNAV SID / RNAV SID).

2.22.1.9.2 Deviations from the Standard Instrument Departure Routes (SID) published in AIP are only permitted at and above 5000 ft AMSL. Between 2101* and 0500* UTC, deviation from a SID leading into AWY A9 is only permitted at FL 80 or above with permission of Air Traffic Control.

2.22.1.10 Diversion from LSZH to LFSB during specific weather conditions in LSZH

The specific weather conditions are:

- visibility less than 5 km and/or
- ceiling less than 2000 ft.

For alternate fuel planning purposes to LFSB in these conditions, flight crews shall consider the applicable missed approach procedure for RWY 34 in LSZH to GIPOL, thereafter direct HOC, followed by approximately 25 NM of radar vectored distance to the final approach for RWY 16 in LFSB. The distance resulting from the radar vectors in LFSB shall be regarded as an estimate, depending on traffic and airspace restrictions around LFSB (if RWY 34 is in use in LFSB, the vectored distance could increase to 40 NM).

This results in the following calculation (using shortest distances):

Missed APP LSZH RWY 34	28 NM
GIPOL to HOC	16 NM
HOC via radar vectors to final approach LFSB RWY 16	25 NM
Final approach to RWY 16	6 NM

This calculation results in a total distance of 75 NM.

If a RWY other than RWY 34 is in use in LSZH, the appropriate recalculation shall be performed.

2.22.2 VFR PROCEDURE

Refer to VFR Manual, AD INFO, VFR RAC 4-3 LSZH

* ETE adjust by minus 1 HR.

2.22.3 JAA minima for Zurich AP

RWY	STRAIGHT-IN RWY	A	B	C	D
14	CAT 2 ILS/DME	1502 ft (100 ft) ¹⁾ RA 95 ft - RVR 300 m	1502 ft (100 ft) ¹⁾ RA 95 ft - RVR 300 m	1502 ft (100 ft) ¹⁾ RA 95 ft - RVR 300 m	1502 ft (100 ft) ^{1) 2)} RA 95 ft - RVR 350 m
	ILS/DME	1602 ft (200 ft) RA 187 ft - RVR 550m	1602 ft (200 ft) RA 187 ft - RVR 550m	1602 ft (200 ft) RA 187 ft - RVR 550m	1602 ft (200 ft) RA 187 ft - RVR 550m
	ALS out	RVR 1000 m	RVR 1000 m	RVR 1000 m	RVR 1000 m
	LOC	1900 ft (498 ft) RVR 1000 m	1900 ft (498 ft) RVR 1200 m	1900 ft (498 ft) RVR 1200 m	1900 ft (498 ft) RVR 1600 m
	ALS out	RVR 1500 m	RVR 1500 m	RVR 2000 m	RVR 2000 m
	SRE	2040 ft (638 ft) RVR 1000 m	2040 ft (638 ft) RVR 1200 m	2040 ft (638 ft) RVR 1200 m	2040 ft (638 ft) RVR 1600 m
	ALS out	RVR 1500 m	RVR 1500 m	RVR 2000 m	RVR 2000 m
16	CAT 2 ILS/DME (missed APCH climb gradient 4.6% to 2700 ft)	1490 ft (100 ft) ¹⁾ RA 93 ft - RVR 300 m	1490 ft (100 ft) ¹⁾ RA 93 ft - RVR 300 m	1490 ft (100 ft) ¹⁾ RA 93 ft - RVR 300 m	1490 ft (100 ft) ^{1) 2)} RA 93 ft - RVR 350 m
	ILS/DME (missed APCH climb gradient 4.6% to 2700 ft)	1590 ft (200 ft) RA 187 ft - RVR 550m	1590 ft (200 ft) RA 187 ft - RVR 550m	1590 ft (200 ft) RA 187 ft - RVR 550m	1590 ft (200 ft) RA 187 ft - RVR 550m
	ALS out	RVR 1000 m	RVR 1000 m	RVR 1000 m	RVR 1000 m
	LOC	1880 ft (490 ft) RVR 1200 m	1880 ft (490 ft) RVR 1300 m	1880 ft (490 ft) RVR 1400 m	1880 ft (490 ft) RVR 1500 m
	ALS out	RVR 1800 m	RVR 1900 m	RVR 2000 m	RVR 2100 m
	VOR/DME	1950 ft (560 ft) RVR 1400 m	1950 ft (560 ft) RVR 1500 m	1950 ft (560 ft) RVR 1600 m	1950 ft (560 ft) RVR 1700 m
	ALS out	RVR 2000 m	RVR 2100 m	RVR 2200 m	RVR 2300 m
SRE	2040 ft (650 ft) RVR 1200 m	2040 ft (650 ft) RVR 1400 m	2040 ft (650 ft) RVR 1400 m	2040 ft (650 ft) RVR 1800 m	
ALS out	RVR 1500 m	RVR 1500 m	RVR 2000 m	RVR 2000 m	
28	VOR/DME	2360 ft (944 ft) VIS 4300 m	2360 ft (944 ft) VIS 4300 m	2360 ft (944 ft) VIS 4300 m	2360 ft (944 ft) VIS 4300 m
34	ILS/DME (missed APCH climb gradient 3.0% to 2400 ft)	1588 ft (200 ft) RVR 550 m	1588 ft (200 ft) RVR 550 m	1588 ft (200 ft) RVR 550 m	1588 ft (200 ft) RVR 550 m
	VOR/DME	2430 ft (1042 ft) VIS 4500 m	2430 ft (1042 ft) VIS 4500 m	2430 ft (1042 ft) VIS 4500 m	2430 ft (1042 ft) VIS 4500 m
	LLZ/DME	1990 ft (602 ft) VIS 2500 m	1990 ft (602 ft) VIS 2500 m	1990 ft (602 ft) VIS 2500 m	1990 ft (602 ft) VIS 2500 m
¹⁾ TDZ LGT or CL LGT out: NIGHT RVR 550 m ²⁾ Autoland: RVR 300 m ³⁾ Additional MET requirements: - no clouds below 3000 ft AAL, - no precipitation, - no wind shear, - no moderate or severe turbulence. ⁴⁾ Ceiling 3500 ft required.				RA = Radio Altimeter	

CIRCLE-TO-LAND 5)	100 KT	135 KT	180 KT	180 KT
6)	2360 ft (944 ft) VIS 1500 m 7)	2470 ft (1054 ft) VIS 1600 m 7)	2710 ft (1294 ft) VIS 2400 m 7)	2710 ft (1294 ft) VIS 3600 m 7)

5) Circling after RWY 28 not applicable.

After ILS 16: Applicable only if ACFT position is definitely within circling area.

6) Prohibited southwest of airport BTN extended centre lines RWY 16 and 28.

7) For all circlings to RWY 28 VIS 4000 m

Take-off RWY 16, 28, 32, 34 1)

Low Visibility Procedures must be in force					
	REDL, CL LGT and multiple RVR required	REDL and CL LGT	RCL markings (day only) or REDL	RCL markings (day only) or REDL	NIL (day only)
A			250 m	400 m	500 m
B	150 m 2) 4)	200 m	300 m		600 m
C					
D	200 m 3) 4)	250 m	400 m		800 m

1) Take-off RWY 14 is subject to activation by Airport Authority

2) 125 m provided the conditions under Appendix 1 to JAR-OPS 1.430 (a) (4) (i), (A) to (E) are met

3) 150 m provided the conditions under Appendix 1 to JAR-OPS 1.430 (a) (4) (i), (A) to (E) are met

4) 75 m provided the conditions under Appendix 1 to JAR-OPS 1.430 (a) (4) (i), (A) to (E) are met and the aircraft consists of an approved lateral guidance system for take-off

Take-off RWY 10

	RCL markings (day only) or REDL	NIL (day only)
A		500 m
B	400 m	600 m
C		
D		800 m

2.22.4 Minima for IFR departures (TKOF minima)

RWY	ACFT CAT	Vis (m) / Ceiling (ft AGL)			RMK
		No LGT AVBL	REDL or RCLL AVBL	REDL and RCLL AVBL	
10	A	500/---	400/---	400/---	Due to LIL
	B	600/---	400/---	400/---	
	C	600/---	400/---	400/---	
	D	800/---	400/---	400/---	
All EXC 10	A	500/---	250/---	150/---	
	B	600/---	300/---	150/---	
	C	600/---	300/---	150/---	
	D	800/---	400/---	200/---	

LSZH AD 2.23 ADDITIONAL INFORMATION

2.23.1 List of significant points

NAV point	COORD WGS84		Back-up Definition			Purpose
	N LAT	E LONG	Radial	DME	NAV	
1	2		3			4
AFOLT	47 14 11	008 27 38	195	13.7	KLO	RNAV SID LSZH
ALBIX	47 14 59	008 33 52	169 109	26.9 39	TRA HOC	NON RNAV STAR/NON RNAV SID LSZH
AMIKI	47 34 26	009 02 15	097	9	ZUE	RNAV STAR/NON RNAV STAR LSZH, HLDG
ARTAG	47 09 52	008 30 50	184	17.6	KLO	RNAV SID LSZH
BERSU	47 08 08	007 56 29	232	31.3	KLO	RNAV STAR LSZH, HLDG
BLM DVOR	47 37 58	007 29 58	---	---	---	RNAV STAR/NON RNAV STAR LSZH
BREGO	47 23 23	008 20 46	055 244	22 9.1	WIL KLO	RNAV SID/NON RNAV SID LSZH
DEGES	47 24 45	009 12 07	096	26.9	KLO	RNAV SID LSZH
DOPIL	47 04 12	008 01 00	223	31.7	KLO	RNAV STAR LSZH
EDUMI	47 45 41	008 27 31	011 305	4.4 17.7	TRA ZUE	IAC LSZH
EGABI	47 18 26	008 39 49	152	10.2	KLO	VOR/DME APCH 34 LSZH
ERMUS	47 13 56	008 14 41	223	18.3	KLO	RNAV STAR LSZH
ETOXU	47 43 33	009 33 02	087	45.2	TRA	RNAV STAR/NON RNAV STAR LSZH

NAV point	COORD WGS84		Back-up Definition			Purpose
	N LAT	E LONG	Radial	DME	NAV	
1	2		3			4
GERSA	47 02 22	008 31 56	181	25.1	KLO	RNAV SID LSZH
GIPOI	47 30 19	008 02 27	261	32	ZUE	RNAV STAR/NON RNAV STAR LSZH, HLDG
HOC DVOR	47 28 00	007 39 56	---	---	---	RNAV STAR/SID, NON RNAV STAR/SID LSZH
KELIP	46 57 22	008 45 42	164	31.3	KLO	RNAV STAR LSZH
KLO DVOR	47 27 26	008 32 44	---	---	---	
KOLUL	47 28 02	008 49 22	087	11.3	KLO	RNAV SID LSZH
LAMAX	47 37 14	008 54 14	056	17.6	KLO	RNAV STAR LSZH
MANID	47 16 03	008 41 41	152	12.9	KLO	VOR/DME APCH 34 LSZH
MATIV	47 35 35	009 11 32	073	27.5	KLO	RNAV STAR LSZH
MILNI	47 17 47	008 39 33	---	10.3	IZS	ILS/DME APCH 34 LSZH
MKR K	47 27 35	008 34 06	080	---	KLO	RNAV SID/NON RNAV SID LSZH
MOMOL	47 27 42	008 40 16	087	5.1	KLO	RNAV SID LSZH
MOSIT	47 04 09	008 44 38	161	24.7	KLO	RNAV STAR LSZH, HLDG
NATOR	48 10 12	008 19 17	330	40	ZUE	RNAV STAR/NON RNAV STAR LSZH
NEGRA	47 43 20	009 25 38	087	40.2	TRA	RNAV STAR/NON RNAV STAR LSZH
NOLKA	47 08 53	008 07 34	223	25.2	KLO	RNAV STAR LSZH
OSDAN	47 29 02	008 49 14	178	6.5	ZUE	IAC LSZH
RAVED	47 43 45	009 40 10	087	50	TRA	HLDG
RILAX	47 56 34	008 30 49	011	15.5	TRA	RNAV STAR/NON RNAV STAR LSZH, HLDG

NAV point	COORD WGS84		Back-up Definition			Purpose
	N LAT	E LONG	Radial	DME	NAV	
1	2		3			4
SONGI	47 46 40	008 43 55	022	20.7	KLO	RNAV SID LSZH
SUL DVOR	48 22 54	008 38 41	---	---	---	RNAV STAR/NON RNAV STAR LSZH
TADOB	47 10 59	008 05 23	228	24.8	KLO	RNAV STAR LSZH
TGO DVOR	48 37 06	009 15 33	---	---	---	RNAV STAR/NON RNAV STAR LSZH
URNAS	47 00 08	008 38 18	169	42	TRA	NON RNAV STAR LSZH, HLDG
UTIXO	47 15 09	008 41 20	---	13.2	IZS	ILS/DME APCH 34 LSZH
VEBIT	47 16 07	008 00 21	243	24.8	KLO	RNAV SID LSZH
WIL VOR	47 10 42	007 54 21	---	---	---	NON RNAV STAR/NON RNAV SID LSZH
ZUE DVOR	47 35 32	008 49 04	---	---	---	RNAV SID/NON RNAV SID LSZH
ZH502	47 27 55	008 45 59	087	9	KLO	RNAV SID/NON RNAV SID LSZH
ZH503	47 34 30	008 42 35	257 043	4.5 9.7	ZUE KLO	RNAV SID LSZH
ZH504	47 27 23	008 53 49	090	14.3	KLO	RNAV SID LSZH
ZH506	47 30 26	008 46 51	073	10	KLO	RNAV SID LSZH
ZH525	47 26 24	009 00 40	093	19	KLO	RNAV SID LSZH
ZH526	47 15 33	008 37 15	166	12.3	KLO	RNAV SID LSZH
ZH551	47 18 08	008 10 00	055	13	WIL	NON RNAV SID LSZH
ZH552	47 25 44	008 23 30	255	6.5	KLO	RNAV SID/NON RNAV SID LSZH
ZH553	47 25 20	008 21 22	255	8	KLO	NON RNAV SID LSZH
ZH556	47 20 18	008 23 05	223	9.7	KLO	RNAV SID LSZH
ZH557	47 18 47	008 24 13	214	10.4	KLO	RNAV SID LSZH
ZH558	47 19 05	008 08 41	243	18.4	KLO	RNAV SID LSZH

NAV point	COORD WGS84		Back-up Definition			Purpose
	N LAT	E LONG	Radial	DME	NAV	
1	2		3			4
ZH625	47 19 55	008 42 03	140	9.8	KLO	RNAV STAR LSZH
ZH626	47 16 19	008 42 41	149	13	KLO	RNAV STAR LSZH
ZH650	47 21 46	008 32 00	169	20	TRA	NON RNAV STAR LSZH
ZH676	47 27 40	008 30 16	169	14	TRA	NON RNAV STAR LSZH
ZH677	47 34 38	007 44 13	108	10.2	BLM	RNAV STAR/NON RNAV STAR LSZH
ZH701	47 37 51	008 40 04	111	10	TRA	IAC LSZH
ZH702	47 43 59	008 34 03	310	13.2	ZUE	IAC LSZH
ZH725	47 15 12	008 47 53	140	16	KLO	VOR/DME APCH 34 LSZH
ZH726	47 14 50	008 47 15	142	16	KLO	ILS/DME APCH 34 LSZH
ZH775	47 35 18	008 07 44	244	13.9	TRA	IAC LSZH

2.23.2 Advanced Surface Movement Guidance and Control System A-SMGCS

The A-SMGCS at Zurich Airport is supported by SMR and Mode S multilateration, which provides aircraft position information and identification to TWR, Ground and Apron Control. These units will pass information and instructions on appropriate frequencies. (REF: LSZH AD 2.18).

Aircraft operators intending to use Zurich airport shall ensure that Mode S transponders are able to operate when an aircraft is on the ground, transmitting Mode S squitter and replying to Mode S addressed interrogations only.

When an aircraft is on the ground, the transponder shall be inhibited to reply to Mode S all-call interrogation and replies to Mode A/C interrogations shall also be suppressed.

Flight crew shall select the assigned Mode A (squawk) code and activate the Mode S transponder at the request for push-back or taxi, whichever is first, and after landing until reaching the aircraft stand. The transponder shall be switched off immediately after parking.

Activation of a Mode S transponder normally means selecting the AUTO or XPDR position and transponders provided with on-the-ground sensors are automatically switched in this function before take-off and after landing. If using a transponder not fitted with an on-ground-sensor then refer to the operator's guide. Selection of STAND-BY mode will not activate the Mode S transponder and selecting ON could override the required suppression of SSR Mode A replies and Mode S all-call replies when an aircraft is on the ground.

LSZH AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart	LSZH AD 2.24.1 - 1
Ground movement chart SOUTH	LSZH AD 2.24.3 - 1
Ground movement chart NORTH	LSZH AD 2.24.3 - 3
Aerodrome Obstacle Chart - ICAO RWY 10	LSZH AD 2.24.4 - 1
Aerodrome Obstacle Chart - ICAO RWY 28	LSZH AD 2.24.4 - 3
Aerodrome Obstacle Chart - ICAO RWY 16	LSZH AD 2.24.4 - 5
Aerodrome Obstacle Chart - ICAO RWY 34	LSZH AD 2.24.4 - 7
Aerodrome Obstacle Chart - ICAO RWY 32	LSZH AD 2.24.4 - 9
Aerodrome Obstacle Chart - ICAO RWY 14	LSZH AD 2.24.4 - 11
Precision Approach Terrain Chart RWY 16	LSZH AD 2.24.5 - 1
Precision Approach Terrain Chart RWY 14	LSZH AD 2.24.5 - 3
TRANSITION AFTER DEPARTURE ROUTES DEGES / SONGI / ZUE	LSZH AD 2.24.6 - 1
TRANSITION AFTER DEPARTURE ROUTES VEBIT	LSZH AD 2.24.6 - 3
RNAV SID RWY 28	LSZH AD 2.24.7.1 - 1
RNAV SID RWY 10	LSZH AD 2.24.7.2 - 1
RNAV SID RWY 34	LSZH AD 2.24.7.3 - 1
RNAV SID RWY 16	LSZH AD 2.24.7.4 - 1
RNAV SID RWY 32	LSZH AD 2.24.7.5 - 1
TEMPO RNAV SID RWY 14	LSZH AD 2.24.7.6 - 1
NON RNAV SID RWY 28	LSZH AD 2.24.7.7 - 1
NON RNAV SID RWY 10	LSZH AD 2.24.7.8 - 1
NON RNAV SID RWY 34	LSZH AD 2.24.7.9 - 1
NON RNAV SID RWY 16	LSZH AD 2.24.7.10 - 1
NON RNAV SID RWY 32	LSZH AD 2.24.7.11 - 1
TEMPO NON RNAV SID RWY 14	LSZH AD 2.24.7.12 - 1
RNAV STAR TO GIPOL	LSZH AD 2.24.9.1 - 1
RNAV STAR TO AMIKI	LSZH AD 2.24.9.2 - 1
RNAV/NON RNAV STAR LINK ROUTES TO RILAX / TRA	LSZH AD 2.24.9.3 - 1
NON RNAV STAR TO GIPOL	LSZH AD 2.24.9.4 - 1
NON RNAV STAR TO AMIKI	LSZH AD 2.24.9.5 - 1
IAC ILS/DME RWY 14 CAT I/II/III	LSZH AD 2.24.10.1 - 1
IAC LLZ/DME RWY 14	LSZH AD 2.24.10.2 - 1
IAC ILS/DME RWY 16 CAT I/II/III	LSZH AD 2.24.10.3 - 1
IAC LLZ/DME RWY 16	LSZH AD 2.24.10.4 - 1
IAC VOR/DME KLO RWY 16	LSZH AD 2.24.10.5 - 1
IAC VOR/DME RWY 28	LSZH AD 2.24.10.6 - 1
IAC ILS/DME RWY 34 CAT I	LSZH AD 2.24.10.7 - 1
IAC LLZ/DME RWY 34	LSZH AD 2.24.10.8 - 1
IAC VOR/DME RWY 34	LSZH AD 2.24.10.9 - 1
MMN OBST CLR CHART (based on vectoring criteria)	LSZH AD 2.24.13 - 1