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AIP Services

CH-8602 WANGEN BEI DÜBENDORF

AIP

AMDT 013 2023

Effective Date 28 DEC 2023

RMK

Filing instruction: Insert this AMDT into AIP after inserting AIRAC AMDT of same effective date, if issued.

1. Insert the following pages:

GEN 0.2 - 11/12	28 DEC 2023
GEN 0.4 - 1/2	28 DEC 2023
GEN 0.4 - 3/4	28 DEC 2023
GEN 0.4 - 5/6	28 DEC 2023
GEN 0.4 - 7/8	28 DEC 2023
AD 0.6 - 1/2	28 DEC 2023
AD 0.6 - 3/4	28 DEC 2023
AD 0.6 - 5/6	28 DEC 2023
AD 0.6 - 7/8	28 DEC 2023
AD 0.6 - 9/10	28 DEC 2023
AD 0.6 - 11/12	28 DEC 2023
AD 0.6 - 13/14	28 DEC 2023
AD 1.2 - 1/2	28 DEC 2023
AD 1.3 - 1/2	28 DEC 2023
LSZB AD 2 - 1/2	28 DEC 2023
LSZB AD 2 - 3/4	28 DEC 2023
LSZB AD 2 - 9/10	28 DEC 2023
LSZB AD 2 - 19/20	28 DEC 2023
LSZC AD 2 - 1/2	28 DEC 2023
LSZC AD 2 - 9/10	28 DEC 2023

Destroy the following pages:

GEN 0.2 - 11/12	30 NOV 2023
GEN 0.4 - 1/2	AIRAC 28 DEC 2023
GEN 0.4 - 3/4	AIRAC 28 DEC 2023
GEN 0.4 - 5/6	AIRAC 28 DEC 2023
GEN 0.4 - 7/8	AIRAC 28 DEC 2023
AD 0.6 - 1/2	02 NOV 2023
AD 0.6 - 3/4	02 NOV 2023
AD 0.6 - 5/6	02 NOV 2023
AD 0.6 - 7/8	02 NOV 2023
AD 0.6 - 9/10	02 NOV 2023
AD 0.6 - 11/12	02 NOV 2023
AD 0.6 - 13/14	02 NOV 2023
AD 1.2 - 1/2	19 MAY 2022
AD 1.3 - 1/2	02 NOV 2023
LSZB AD 2 - 1/2	30 NOV 2023
LSZB AD 2 - 3/4	30 NOV 2023
LSZB AD 2 - 9/10	30 NOV 2023
LSZB AD 2 - 19/20	15 JUL 2021
LSZC AD 2 - 1/2	23 MAR 2023
LSZC AD 2 - 9/10	20 MAY 2021

2. Record entry of amendment on page GEN 0.2

3. This AIP AMDT incorporates information contained in the following publications:

NOTAM: B1532/23

AIP SUP: NIL

AIC: NIL

Enroute chart: NIL

4. Following SUP and AIRAC SUP are still in force:

Checklist SUP: 001 2023, 002 2023

Checklist AIRAC SUP: 003 2023

Insert the following pages:		Destroy the following pages:	
LSGC AD 2 - 1/2	28 DEC 2023	LSGC AD 2 - 1/2	AIRAC 07 SEP 2023
LSGC AD 2 - 3/4	28 DEC 2023	LSGC AD 2 - 3/4	AIRAC 07 SEP 2023
LSGC AD 2 - 5/6	28 DEC 2023	LSGC AD 2 - 5/6	AIRAC 07 SEP 2023
LSGC AD 2 - 7/8	28 DEC 2023	LSGC AD 2 - 7/8	AIRAC 02 NOV 2023
LSGC AD 2 - 9/10	28 DEC 2023	LSGC AD 2 - 9/10	AIRAC 02 NOV 2023
LSGC AD 2 - 11/12	28 DEC 2023	LSGC AD 2 - 11/12	AIRAC 02 NOV 2023
LSGC AD 2 - 13/14	28 DEC 2023	LSGC AD 2 - 13/14	AIRAC 02 NOV 2023
LSGC AD2 - 15/16	28 DEC 2023	LSGC AD2 - 15/16	AIRAC 02 NOV 2023
LSGG AD 2 - 1/2	28 DEC 2023	LSGG AD 2 - 1/2	05 OCT 2023
LSGG AD 2 - 3/4	28 DEC 2023	LSGG AD 2 - 3/4	04 NOV 2021
LSGG AD 2 - 5/6	28 DEC 2023	LSGG AD 2 - 5/6	02 NOV 2023
LSGG AD 2 - 7/8	28 DEC 2023	LSGG AD 2 - 7/8	02 NOV 2023
LSGG AD 2 - 9/10	28 DEC 2023	LSGG AD 2 - 9/10	AIRAC 23 MAR 2023
LSGG AD 2 - 13/14	28 DEC 2023	LSGG AD 2 - 13/14	26 JAN 2023
LSGG AD 2 - 43/44	28 DEC 2023	LSGG AD 2 - 43/44	AIRAC 02 NOV 2023
LSZG AD 2 - 1/2	28 DEC 2023	LSZG AD 2 - 1/2	05 OCT 2023
LSZG AD 2 - 15/16	28 DEC 2023	LSZG AD 2 - 15/16	AIRAC 13 JUL 2023
LSZA AD 2 - 1/2	28 DEC 2023	LSZA AD 2 - 1/2	06 OCT 2022
LSZA AD 2 - 3/4	28 DEC 2023	LSZA AD 2 - 3/4	02 DEC 2021
LSZA AD 2 - 7/8	28 DEC 2023	LSZA AD 2 - 7/8	13 JUL 2023
LSZA AD 2 - 9/10	28 DEC 2023	LSZA AD 2 - 9/10	18 MAY 2023
LSZA AD 2 - 19/20	28 DEC 2023	LSZA AD 2 - 19/20	AIRAC 04 NOV 2021
LSMP AD 2 - 1/2	28 DEC 2023	LSMP AD 2 - 1/2	15 JUN 2023
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LSZR AD 2 - 1/2	28 DEC 2023	LSZR AD 2 - 1/2	07 SEP 2023
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LSZR AD 2 - 5/6	28 DEC 2023	LSZR AD 2 - 5/6	07 SEP 2023
LSZR AD 2 - 7/8	28 DEC 2023	LSZR AD 2 - 7/8	07 SEP 2023
LSZR AD 2 - 9/10	28 DEC 2023	LSZR AD 2 - 9/10	07 SEP 2023
LSZR AD 2 - 19/20	28 DEC 2023	LSZR AD 2 - 19/20	AIRAC 05 OCT 2023
LSZS AD 2 - 1/2	28 DEC 2023	LSZS AD 2 - 1/2	13 JUL 2023
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LSZS AD 2 - 5/6	28 DEC 2023	LSZS AD 2 - 5/6	11 AUG 2022
LSZS AD 2 - 7/8	28 DEC 2023	LSZS AD 2 - 7/8	26 JAN 2023
LSZS AD 2 - 9/10	28 DEC 2023	LSZS AD 2 - 9/10	01 DEC 2022
LSZS AD 2 - 11/12	28 DEC 2023	LSZS AD 2 - 11/12	AIRAC 23 FEB 2023
LSZS AD 2 - 13/14	28 DEC 2023		
LSGS AD 2 - 1/2	28 DEC 2023	LSGS AD 2 - 1/2	26 JAN 2023
LSGS AD 2 - 3/4	28 DEC 2023	LSGS AD 2 - 3/4	14 JUL 2022
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LSGS AD 2 - 9/10	28 DEC 2023	LSGS AD 2 - 9/10	23 MAR 2023
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LSZH AD 2 - 1/2	28 DEC 2023	LSZH AD 2 - 1/2	30 NOV 2023
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LSZH AD 2 - 71/72	28 DEC 2023	LSZH AD 2 - 71/72	AIRAC 23 MAR 2023
LSZH AD 2.24.1 - 1/2	28 DEC 2023	LSZH AD 2.24.1 - 1/2	30 NOV 2023

AIP Amendment			
NR/Year	Effective date	Date inserted	Inserted by
006/2021	17-Jun-2021	17-Jun-2021	
007/2021	15-Jul-2021	15-Jul-2021	
008/2021	12-Aug-2021	12-Aug-2021	
009/2021	09-Sep-2021	09-Sep-2021	
010/2021	07-Oct-2021	07-Oct-2021	
011/2021	04-Nov-2021	04-Nov-2021	
012/2021	02-Dec-2021	02-Dec-2021	
013/2021	30-Dec-2021	30-Dec-2021	
001/2022	27-Jan-2022	27-Jan-2022	
002/2022	24-Feb-2022	24-Feb-2022	
003/2022	24-Mar-2022	24-Mar-2022	
004/2022	21-Apr-2022	21-Apr-2022	
005/2022	19-May-2022	19-May-2022	
006/2022	16-Jun-2022	16-Jun-2022	
007/2022	14-Jul-2022	14-Jul-2022	
008/2022	11-Aug-2022	11-Aug-2022	
009/2022	08-Sep-2022	08-Sep-2022	
010/2022	06-Oct-2022	06-Oct-2022	
011/2022	03-Nov-2022	03-Nov-2022	
012/2022	01-Dec-2022	01-Dec-2022	
013/2022	29-Dec-2022	29-Dec-2022	
001/2023	26-Jan-2023	26-Jan-2023	
002/2023	23-Feb-2023	23-Feb-2023	
003/2023	23-Mar-2023	23-Mar-2023	
004/2023	20-Apr-2023	20-Apr-2023	
005/2023	18-May-2023	18-May-2023	
006/2023	15-Jun-2023	15-Jun-2023	
007/2023	13-Jul-2023	13-Jul-2023	
008/2023	10-Aug-2023	10-Aug-2023	
009/2023	07-Sep-2023	07-Sep-2023	
010/2023	05-Oct-2023	05-Oct-2023	
011/2023	02-Nov-2023	02-Nov-2023	
012/2023	30-Nov-2023	30-Nov-2023	
013/2023	28-Dec-2023	28-Dec-2023	

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GEN 0.4 CHECKLIST OF AIP PAGES

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GEN 0.2 - 5	AIRAC 28 DEC 2023
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GEN 0.2 - 7	AIRAC 30 NOV 2023
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GEN 0.2 - 9	AIRAC 30 NOV 2023
GEN 0.2 - 10	AIRAC 30 NOV 2023
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GEN 0.3 - 2	AIRAC 28 DEC 2023
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GEN 0.4 - 3	28 DEC 2023
GEN 0.4 - 4	28 DEC 2023
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GEN 1.2 - 1	11 DEC 2014
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GEN 1.2 - 5	20 APR 2023
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GEN 1.2 - 7	11 DEC 2014
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GEN 1.2 - 10	14 JUL 2022
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GEN 1.4 - 1	11 DEC 2014
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GEN 1.5 - 1	18 JUL 2019
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GEN 2.4 - 2	AIRAC 28 DEC 2023
GEN 2.4 - 3	AIRAC 28 DEC 2023
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GEN 2.4 - 5	AIRAC 28 DEC 2023
GEN 2.4 - 6	AIRAC 28 DEC 2023
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GEN 4.2 - 8	30 MAR 2017
GEN 4.2 - 9	30 MAR 2017
GEN 4.2 - 10	30 MAR 2017
GEN 4.2 - 11	23 MAR 2023
GEN 4.2 - 12	23 MAR 2023
GEN 4.2 - 13	23 MAR 2023
GEN 4.2 - 14	23 MAR 2023
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AD 0.6 TABLE OF CONTENT TO PART 3

AD 0 PART 3 Aerodrome (AD)

AD 1 AERODROMES/HELIPORTS - INTRODUCTION

AD 2 AERODROMES

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AD 1.2 RESCUE AND FIRE FIGHTING SERVICES (RFFSs) AND SNOW PLAN

1. Rescue and fire fighting services

According to ICAO and EASA, the MNM level of protection provided at an AD for rescue and firefighting depends on the dimensions of aeroplanes using the AD, with the following aerodrome category being applicable:

Category	Aeroplane overall length (m)	MAX fuselage width (m)
1	- 9	2
2	9-12	2
3	12-18	3
4	18-24	4
5	24-28	4
6	28-39	5
7	39-49	5
8	49-61	7
9	61-76	7
10	76-90	8

For the largest aerodromes, AD 2.6 and VFR Manual, AD INFO, § 8 provide information on the AVBL fire protection. The indication includes the aerodrome category always available and, if necessary, the higher categories available under condition.

At some AD, fire protection is only AVBL O/R with sufficient prior notice (PPR), due to personnel reasons.

Where no indication of fire protection is given, which is the case for most of the small aerodromes, at the most hand-held and small fire extinguishers are provided at the AD.

Aircraft Removal:
A disabled ACFT hindering or blocking the AD operation can only be removed after release by the Swiss Accident Investigation Board. Since the aircraft operator is responsible for his aircraft, he also has the responsibility for the removal. However, aerodromes may provide a removal service to prevent a runway from being blocked for too long.
For the largest aerodromes, AD 2.6 provides information on the maximal aircraft removal capacity available on site. For complex case and/or for larger aircraft, removal equipment is shared between airports.

2. Snow plan

Certified aerodromes as well as non-certified aerodromes (airfields) with a paved runway and movements of aircraft with a maximum take-off mass (MTOM) of more than 5,700 kg are required to establish a snow plan, which includes snow clearance as well as the assessment and publication of the runway surface conditions by means of SNOWTAM.

2.1 Organization of winter service

Aerodrome operators shall, in cooperation with the local air traffic control service provider (if any) and other relevant partners, define procedures for winter operations in a snow plan. The snow plan shall describe how snow, slush, ice, frost, standing water and other contaminants shall be removed as quickly and completely as possible from the surface of a paved runway or FATO and how the condition of contaminated movement areas is assessed and reported.

2.2 Surveillance of movement areas

The snow plan specifies the tasks and competences of the organisational decision-makers (snow-committee).

2.3 Measuring methods and measurements taken

The assessment of the runway surface condition is primarily carried out by means of a visual assessment of the coverage, type and depth of contamination. A measurement with an authorised, calibrated friction measuring device serves as an additional source of information only.

2.4 Actions taken to maintain the usability of movement area

The following friction measuring devices are used to support the assessment of runway surface friction:

LSZB	Mu-Meter
LSGG	Surface Friction Tester
LSZA	Skiddometer
LSZR	Skiddometer
LSGK	Decelerometer
LSZS	Decelerometer
LSGS	Skiddometer
LSZH	Skiddometer
Other aerodromes	NIL

2.5 System and means of reporting

The runway surface condition is assessed with the help of the Runway Condition Assessment Matrix (RCAM) and recorded via Runway Condition Report (RCR) and transmitted by SNOWTAM, ATIS (if any) and radio communication channels. The main components of the RCR are the coverage, type and depth of contamination as well as the Runway Condition Code (RWYCC). Additional information is also provided as required. This includes for example reduced runway length, reduced runway width, conditions of TWYs or chemically treated RWYs.
Upgrading and Downgrading of the RWYCC is allowed under special circumstances described in the FOCA directive AD I-008.

2.6 Cases of runway closure

Temporary closures of the movement area due to contamination or snow clearance will be communicated via ATC/AFIS or aeronautical radio. Closures of the movement area for longer periods of time will be published via NOTAM.

2.7 Distribution of information about snow conditions

Information on Runway Surface Condition, TWYs and aprons are disseminated as follows:

Aerodrome	Publication channel
LSGC, LSGE, LSGG, LSGK, LSGL, LSGS, LSZM, LSMP, LSTS, LSZA, LSZB, LSZC, LSZF, LSZG, LSZL, LSZQ, LSZR, LSZS, LSZH	SNOWTAM (when appropriate)
LSGG, LSGS, LSZA, LSZB, LSZG, LSZL, LSZR, LSZS, LSZH	ATIS
LSGC, LSGG, LSGS, LSMP, LSZA, LSZB, LSZC, LSZG, LSZL, LSZR, LSZS, LSZH	ATC/AFIS - During operations on contaminated RWYs ATC/AFIS may transmit information on runway surface condition, including information from pilot reports.

All other aerodromes provide information on the runway surface condition either via telephone, answering machine or via the aerodrome's website. Corresponding information regarding the information channel is contained in the VFRM, AD INFO of the particular aerodrome. These publications do not comply with the Global Reporting Format for Runway Surface Conditions (GRF).

At aerodromes without ATC/AFIS and/or without ATIS, pilots may request information on runway surface conditions via radio on the frequency of the particular aerodrome.

Estimated Surface Friction	Code
Good	5
Good to Medium	4
Medium	3
Medium to Poor	2
Poor	1

AD 1.3 INDEX OF AERODROMES AND HELIPORTS

	Type of traffic permitted to use the aerodrome/heliport			
Aerodrome/heliport name Location indicator	International - National (INTL - NTL)	IFR - VFR	S = Scheduled NS = Non-scheduled P = Private	Reference to AD Section and remarks
1	2	3	4	5
Aarau Kantonsspital (HEL) LSHA	NTL	NIL	P	NIL
Alpnach (MIL) LSMA	MIL	NIL	NIL	NIL
Ambri LSPM	NTL	VFR	P	VFR Manual, AD INFO
Amlikon (Restricted) LSPA	NTL	VFR	P	VFR Manual, AD INFO
Bad Ragaz LSZE	NTL	VFR	P	VFR Manual, AD INFO
Bâle Mulhouse LFSB	INTL - NTL	IFR - VFR	S - NS - P	see AIP FRANCE www.sia.aviation-civile.gouv.fr
Balzers (HEL) LSXB	NTL	VFR	P	VFR Manual, HEL AGA & AD INFO
Bellechasse (Restricted) LSTB	NTL	VFR	P	VFR Manual, AD INFO
Bern-Belp LSZB	INTL - NTL	IFR - VFR	S - NS - P	AD 2 LSZB VFR Manual, AD INFO
Bern Inselspital (HEL) LSHI	NTL	NIL	P	NIL
Bern-Sand (HEL) LSNB	MIL	NIL	NIL	NIL
Bex LSGB	NTL	VFR	P	VFR Manual, AD INFO
Biel-Kappelen LSZP	NTL	VFR	P	VFR Manual, AD INFO
Bière (HEL) LSNI	MIL	NIL	NIL	NIL
Birrfeld LSZF	INTL - NTL	VFR	NS - P	VFR Manual, AD INFO
Blumental (Winter AD) LSWB	NTL	VFR	P	VFR Manual, VFR AGA
Bressaucourt LSZQ	INTL - NTL	VFR	NS - P	VFR Manual, AD INFO
Buochs LSZC	INTL - NTL	VFR	P	AD 2 LSZC VFR Manual, AD INFO
Bure (HEL) LSNU	MIL	NIL	NIL	NIL
Buttwil LSZU	NTL	VFR	P	VFR Manual, AD INFO
Collombey-Muraz (HEL) (Restricted) LSEC	NTL	VFR	P	VFR Manual, HEL AGA
Courtelary LSZJ	NTL	VFR	P	VFR Manual, AD INFO
Dittingen (Restricted) LSPD	NTL	VFR	P	VFR Manual, AD INFO
Dübendorf (MIL) LSMD	MIL	NIL	NIL	NIL
Ecuvillens LSGE	INTL - NTL	VFR	NS - P	VFR Manual, AD INFO
Emmen (MIL) LSME	MIL	NIL	NIL	NIL

	Type of traffic permitted to use the aerodrome/heliport			
Aerodrome/heliport name Location indicator	**International - National (INTL - NTL)**	**IFR - VFR**	**S = Scheduled NS = Non-scheduled P = Private**	**Reference to AD Section and remarks**
1	**2**	**3**	**4**	**5**
Erstfeld (HEL) (Restricted) LSXE	NTL	VFR	P	VFR Manual, HEL AGA
Frauenfeld (MIL) LSNF	MIL	NIL	NIL	NIL
Fricktal-Schupfart LSZI	INTL - NTL	VFR	P	VFR Manual, AD INFO
Gampel (HEL) (Restricted) LSEG	INTL - NTL	VFR	P	VFR Manual, HEL AGA
Genève LSGG	INTL - NTL	IFR - VFR	S - NS - P	AD 2 LSGG VFR Manual, AD INFO
Gossau (HEL) (Restricted) LSXO	NTL	VFR	P	VFR Manual, HEL AGA & AD INFO
Gösgen (HEL) LSNO	MIL	NIL	NIL	NIL
Grenchen LSZG	INTL - NTL	IFR - VFR	NS - P	AD 2 LSZG VFR Manual, AD INFO
Gruyères LSGT	NTL	VFR	P	VFR Manual, AD INFO
Gstaad-Inn (Winter HEL) (Restricted) LSEA	NTL	VFR	P	VFR Manual, HEL AGA
Gsteigwiler (HEL) LSXG	NTL	VFR	P	VFR Manual, HEL AGA & AD INFO
Haltikon (HEL) LSXN	NTL	VFR	P	VFR Manual, HEL AGA
Hausen am Albis (Restricted) LSZN	NTL	VFR	P	VFR Manual, AD INFO
Holziken (HEL) LSXH	NTL	VFR	P	VFR Manual, HEL AGA
Interlaken (HEL) (Restricted) LSXI	NTL	VFR	P	VFR Manual, HEL AGA & AD INFO
Interlaken Spital (HEL) LSHK	NTL	NIL	P	NIL
Kägiswil (Restricted) LSPG	NTL	VFR	P	NIL
Lachen (Water AD) LSPW	NTL	VFR	P	VFR Manual, VFR AGA
La Côte LSGP	NTL	VFR	P	VFR Manual, AD INFO
Langenthal LSPL	NTL	VFR	P	VFR Manual, AD INFO
Lauberhorn (Winter AD) LSWL	NTL	VFR	P	VFR Manual, VFR AGA
Lausanne-La Blécherette LSGL	INTL - NTL	VFR	NS - P	VFR Manual, AD INFO
Lauterbrunnen (HEL) LSXL	NTL	VFR	P	VFR Manual, AD INFO & HEL AGA
Les Éplatures LSGC	INTL - NTL	IFR - VFR	NS - P	AD 2 LSGC VFR Manual, AD INFO
Leysin (HEL) LSEY	NTL	VFR	P	VFR Manual, HEL AGA & AD INFO
Locarno LSZL	INTL - NTL	VFR	NS - P	VFR Manual, AD INFO
Locarno (MIL) LSMO	MIL	NIL	NIL	NIL

LSZB - BERN - BELP

LSZB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZB - BERN - BELP

LSZB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 54 44N 007 29 58E - Intersection RWY and TWY C
2	**Direction and distance from the CITY**	6 km SE Bern
3	**Elevation/Reference temperature**	*1675 ft* - 23.5°C
4	**Geoid undulation at AD ELEV PSN**	163.4 ft
5	**MAG VAR/Annual change**	2° E (2019.5) / 0°11' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Flughafen Bern AG Flugplatzstrasse 31 CH-3123 Belp Phone: +41 (0) 31 960 21 11 (Authority) +41 (0) 31 960 21 31 (Ground Services, REQ processed daily 0700 - 1800 (0600 - 1700) Fax: +41 (0) 31 960 21 12 (Authority) AFS: LSZBYDYX LSZBZPZX (ARO) Email: info@bernairport.ch URL: https://www.bernairport.ch
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZB AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	**Opening hours:** For ACFT up to 3.5 tonnes MTOM MON - SUN 0700 - 2000 (0600 - 1900)(TKOF only until 1900 (1800)) For ACFT above 3.5 tonnes MTOM MON - SUN 0700 - 1800 (0600 - 1700)
2	**Customs and immigration**	AD OPR HR
3	**Health and sanitation**	AD OPR HR
4	**AIS Briefing Office**	AD OPR HR
5	**ATS Reporting Office (ARO)**	CTC ARO Zurich; TEL +41 (0) 43 931 61 61
6	**MET Briefing Office**	AD OPR HR
7	**ATS**	HX
8	**Fuelling**	Self-service station: (MAX wingspan 12M) AVGAS 100LL / UL91 0700 - 2000 (0600 - 1900) Fuel trucks: AVGAS 100LL 0700 - 1800 (0600 - 1700) JET A1 0700 - 2000 (0600 - 1900) (after 1800 (1700) only available O/R MNM 3 HR before ETD/ETA by phone +41 (0) 31 960 21 31) Charging station for electric plane (EASA certified): SKYCHARGE Mobile 0700 - 2000 (0600-1900) only available O/R MNM 3 HR before ETA by phone +41 (0) 31 960 21 11
9	**Handling**	AD OPR HR
10	**Security**	Security screening / critical part O/R
11	**De-icing**	AD OPR HR

12	**Remarks**	Extensions: Special permission is required for flights outside official opening hours and is possible during the following times: **Scheduled FLT:** MON-SUN 0500 - 2130 (0400 - 2030) for TKOF 0500 - 2200 (0400 - 2100) for LDG No APCH clearance will be issued to ACFT which have not reached the DIST of 8 NM from the AP (DME IBE) at 2145 (2045). For DEP, the ACFT needs to be ready for TAX at 2115 (2015), at the latest. **Other FLT:** MON-FRI 0600 - 1900 (0500 - 1800) for TKOF 0600 - 2100 (0500 - 2000) for LDG SAT 0600 - HRH (min 1700) (0500 -1800) for TKOF 0600 - HRH (min 1700) (0500 -1900) for LDG SUN 0700 - 1900 (0600 - 1800) for TKOF 0700 - 2100 (0600 - 2000) for LDG Extensions O/R MNM 3 HR before ETD/ETA by phone +41 (0) 31 960 21 31. See also NOTAM for changes to operating HR.

LSZB AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities:**	Forklift (2000 kg). Nearest railway siding: Kehrsatz 1.8 km Cargo handling including DG (Dangerous Goods) only on request and prior to approval by airport authorities.
2	**Fuel/oil types**	Jet A1, AVGAS 100 LL, AVGAS UL91 15 W-50
3	**Fuelling facilities/capacity**	AVGAS 100 LL: 1 Mercedes Benz “A380”- 9000 litres 1 self-service tank - 20000 litres (see LSZB AD 2.20) AVGAS UL91: 1 self-service tank - 9500 litres (see LSZB AD 2.20) Jet A1: 1 Mercedes Benz “070” - 19000 litres 1 Mercedes Benz “071” - 19000 litres No defuelling for regular operations Charging station for electric plane (SKYCHARGE Mobile/EASA certified)
4	**De-icing facilities**	OCT 01 - APR 30: available Operator: Flughafen Bern AG De-icing fluids available: Type I = Clariant Safewing MP I 1938 ECO (80) Type II = Clariant Safewing MP II Flight De-icing trucks: 1 JBT Tempest II 1 JBT Tempest AirFirst On stand de-icing: Y3-Y4 CAC: REF LSZB AD 2.20
5	**Hangar space for visiting aircraft**	O/R Operator: Flughafen Bern AG Phone: +41 (0) 31 960 21 11 Email: info@bernairport.ch
6	**Repair facilities for visiting aircraft**	For ACFT up to 5700 kg (major ACFT repairs and major engine repairs): Airmatec Flugplatzstrasse 19 3123 Belp Phone: +41 (0) 31 961 07 07 Email: info@airmatec.ch For HEL (according capability list): Swiss Helicopter Maintenance AG Muristrasse 114a 3123 Belp Phone: +41 (0) 31 818 88 22 Email: info.belp@shm-ag.ch

7	**Remarks**	Ground handling agent and parking permission: compulsory for scheduled and charter FLTs and all taxi FLTs and non commercial air transport • with ACFT above 3.5 tonnes MTOM to and from Schengen destinations • for all ACFT to and from Non-Schengen destinations Ground Services Bern Phone: +41 (0) 31 960 21 31 Fax: +41 (0) 31 960 21 41 SITA: BRNKKXH FREQ: 131.410 MHz (Ground Services Bern) RTF: GROUND SERVICES BERN Email: groundservices@bernairport.ch

LSZB AD 2.5 PASSENGER FACILITIES

1	**Hotels**	In the city
2	**Restaurants**	At AD and in the city
3	**Transportation**	Buses, taxis and car rental from AD
4	**Medical facilities**	Ambulance O/R; hospital at Belp and in the city O/R
5	**Bank and Post Office**	Cash dispenser, stamps available at AD within AD OPS HRS
6	**Tourist Office**	Tourist Office and Convention Bureau of Berne Post: main railway station P.O. Box 3001 Berne CH-3008 Berne Phone: +41 (0) 31 328 12 12 Fax: +41 (0) 31 328 12 77
7	**Remarks**	**Inadmissible persons** Due to limited infrastructure AVBL for the custody and care of inadmissible persons such passengers can stay at the facilities of the AP **for a period of no longer than 24 hrs**. In all circumstances, persons found inadmissible have to be removed by the operator the day after the ARR of such passengers using its own services or by alternate removal arrangements, at the latest. The operator will have to bear all costs in relation to such removal as apportioned to operators in accordance with applicable rules of public international and national law.

LSZB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 3 0700 - 1800 (0600 - 1700) Category 2 1800 - 2000 (1700 - 1900) Higher category O/R MNM 3 HR before ETA/ETD, by phone +41 (0) 31 960 21 31 for scheduled traffic category 4 or higher according to aircraft type
2	**Rescue equipment**	4 fire engines, 1 ramp-control vehicle
3	**Capability for removal of disabled aircraft**	Lifting bags and electrical jacks available
4	**Remarks**	NIL

LSZB AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	2 towed jet sweeper, 3 snow ploughs, 1 wiper, 2 RWY de-icers, 2 ACFT de-icers
2	**Clearance priorities**	1. RWY ASPH 2. TWY C 3. TWY K & F 4. TWY A, B, D 5. Apron 6. Other
3	**Remarks**	RDF: Basic Solutions Runway De-icing Fluid GEN3 6-4 RWY 14/32 de-icing with GAC (glycerol-/acetatbasic fluids)

LSZB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Designation, surface and strength of Aprons**	ASPH - PCN up to 46 F/C/X/T GRASS - 0.25 MPa
2	**Designation, width, surface and strength of Taxiways**	Widths: TWY A: 7.5 m; TWY B: 15.5 m; TWY C: 18.0 m; TWY D: 10.0 m TWY E: 9.0 m; TWY F: 20.5 m; TWY G: 7.5 m TWY K: BTN TWY B and TWY C:14.0 m; BTN TWY C and Stand Y7: 16.0 m BTN Stand Y7 and TWY E: 10.0 m; BTN TWY E and TWY F: 18.0 m. Surface: TWY A, B, C, D, F and K: ASPH, PCN 46 F/C/X/T. TWY E: GRASS, max. 5.7 t MTOM. TWY G: GRASS, 0.25 MPa MAX wingspan: TWY A: 13.0 m; TWY B, D: 21.5 m; TWY C, F: 36.0 m; TWY E, G: 15.0 m TWY K: 21.5 m except 34.3 m BTN stand Y3 and stand Y7. RMK: 36.0 m on stand Y3A as access/egress directly viaTWY C. MAX outer main gear wheel span: TWY A, E, G: 4.5 m; TWY B: 9.0 m; TWY C: 9.3 m; TWY D: 5.5 m; TWY F: 11.5 m TWY K: BTN TWY B and TWY C: 8.3 m; BTN TWY C and Stand Y7: 9.3 m. BTN stand Y7 and TWY E: 6.0 m; BTN TWY E and TWY F: 9.3 m.
3	**ACL location and elevation**	At apron / *510 m / 1673 ft*
4	**Location of VOR checkpoints**	NIL
5	**Location of INS checkpoints**	NIL
6	**Remarks**	Grass TWY A, C and G closed.

LSZB AD 2.9 SURFACE MOVEMENT GUIDANCE, CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Sectors Yellow and GREEN: ACFT stand identification markings as well as lead-in, stop and lead-out lines. Sector BLUE: Safety line only (box). Apron safety lines east of TWY A resp. TWY K. Marshalling available for sector YELLOW, GREEN and BLUE. On the apron, wing tip clearance is guaranteed if the cockpit of the ACFT follows the CL markings. Restrictions: See ACFT PRKG Chart LSZB AD 2.24.2.
2	**RWY/TWY markings and LGT**	Paved RWY markings: D-THR, THR, designation, aiming point and centre line. GRASS RWY markings / markers: Designation, width and edge / width and edge (white flags). RWY LGT: See LSZB AD 2.14 Paved TWY markings: Centre line (including on turn pads) and intermediate holding position. Enhanced TWY centre line, RWY holding position and mandatory instruction at all intersections with RWY 14/32. Unpaved TWY markings / markers: RWY holding position at all intersections with the RWYs / TWY edge (blue flags). TWY LGT: Edge lights on TWY C and F. RWY guard lights on TWY A, B, C, D, E and F. Mandatory instruction signs at all RWY holding positions. Information signs on the movement area.
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	RWY holding positions at TWY B, C, D and E are located 65 m from RWY 14/32 centre line (EASA 75 m). Special operational procedures are in force to ensure RWY strip clearance.

LSZB AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF landing area**	Main Apron: TLOF stand 1: 46 54 39.15 N / 007 30 11.50 E TLOF stand 2: 46 54 38.33 N / 007 30 11.97 E TLOF stand 3: 46 54 38.72 N / 007 30 12.65 E TLOF stand 4: 46 54 39.10 N / 007 30 13.32 E Apron Swiss Helicopter: TLOF stand 1: 46 54 23.04 N / 007 29 52.08 E TLOF stand 2: 46 54 22.32 N / 007 29 52.44 E
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	TLOFs on Main Apron and at Swiss Helicopter: *510 m / 1673 ft*
3	**TLOF and FATO area dimensions, surface, strength, marking**	Main Apron: TLOF stand 1: ASPH, max. OAL / RD 16.0 m, PPR. TLOF stands 2 to 4: ASPH, max. OAL 13.0 m / RD 11.0 m, home based OPR only except with marshalling by airport authority, air taxi via TWY sector Blue. When TLOF stand 1 is occupied, TEMPO no OPS on TLOF stands 3 and 4. FATO: IFR HEL use paved RWY 14/32.
4	**True BRG of FATO**	RWY 14: 140° RWY 32: 320°
5	**Declared distance available**	See LSZB AD 2.13 for RWY 14-32
6	**APP and FATO lighting**	See LSZB AD 2.14 for RWY 14-32
7	**Remarks**	Swiss Helicopter located S-SW of AD site. Special procedures apply for REGA and Swiss Air Force.

LSZB AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	**Bern CTR** 47 04 26N 007 28 03E - 46 58 18 N 007 35 15E - arc of circle 5.02 NM on 46 55 09N 007 29 32E - clockwise 46 52 00N 007 23 50E - 46 58 10N 007 16 35E - 47 04 26N 007 28 03E
2	**Vertical limits**	*5000 ft AMSL (1500 m)*
3	**Airspace classification**	D
4	**ATS unit call sign Language(s)**	En; En and Ge for Non-Commercial VFR traffic.
5	**Transition altitude**	*6000 ft*
6	**Remarks**	ACT: HX - ATIS (monitoring compulsory)

LSZB AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
APP	Bern Arrival	127.325 MHz	HX	Language: En
APP	Bern Departure	127.325 MHz	HX	Language: En
ATIS		125.130 MHz	H24	Phone: Service: +41 (0) 22 417 40 76
TWR	Bern Tower	121.025 MHz 119.700 MHz* 121.500 MHz**	HX	*ALTN FREQ **EMERG Language: En; En and Ge for Non-Commercial VFR traffic.
CLD	Bern Delivery	121.690 MHz	HX	Check status on ATIS

LSZB 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
ILS 14-LOC CAT I	IBE	110.10 MHz	H24	46 54 22.5N 007 30 24.3E		LOC PSN 165 m FM THR 32 RWY 14: LOC course 138° MAG. Front course sector angle 5.0°. Restricted coverage (published procedures covered): at 25 NM -10° E to +10° W from CL above *6000 ft AMSL* at 17 NM -29° E to +26° W from CL above *4800 ft AMSL*.
GP 14		334.40 MHz	H24	46 55 00.9N 007 29 40.4E		GP Angle 4.0°. PSN: 187 m FM THR 14. GP HGT THR 14: 43 ft / 13.2 m
DME 14	IBE	38X	H24	46 54 22.0N 007 30 20.7E	*1684 ft*	DME PSN: 1656 m FM THR 14, 77 m W of CL. Zero range at DME station. Restricted coverage (published procedures covered): at 25 NM -10° E to NM +10° W from CL above *6000 ft AMSL*. at 17 NM -18° E to +22° W from CL above *4800 ft AMSL*.

LSZB AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions and remarks:

Special operations:
Expect HEL IFR APCH and DEP outside ATC HR up to *6000 ft AMSL* and according to special authorisation.

2. Procedure for non based HEL

PPR for non based HEL on:
Phone: +41 (0) 31 960 21 11
Fax: +41 (0) 31 960 21 12

3. Procedure for departure

For IFR FLT start-up clearance is compulsory.
Upon start-up request, pilot shall indicate the current ATIS designator. Start-up shall be requested on FREQ 121.690 MHz "Bern Delivery". If Delivery is not active start-up shall be requested on FREQ 121.025 MHz “Bern TWR”. Status of delivery position is available on ATIS.

4. ACFT guidance on apron

4.1 General

Taxiing on the APRON is at the PIC’s discretion. No ATC service is provided. TWR will issue ADVS, as far as practicable.

4.2 Area of responsibility

The exact BDRY of responsibility is shown on the charts LSZB AD 2.24

4.3 Operational hours

HX; REF: LSZB AD 2.3

LSZB AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

LSZB AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

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LSZC - BUOCHS

LSZC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZC - BUOCHS

LSZC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 58 28 N 008 23 49 E RWY midpoint
2	**Direction and distance from the CITY**	2 km W Buochs
3	**Elevation/Reference temperature**	*1475 ft AMSL* - 24.7°C
4	**Geoid undulation at AD ELEV PSN**	158.8 ft
5	**MAG VAR/Annual change**	2° E (2016.5) / 0° 9.7' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Airport-Buochs AG Fadenbrücke 20 CH-6374 **Buochs** Phone: +41 (0) 41 622 06 11 Fax: +41 (0) 41 622 06 10 TWR: +41 (0) 41 624 59 01 AFS: LSZCZTZX Email: info@airportbuochs.ch URL: http://www.airportbuochs.ch/
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZC AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	MON - FRI: 0700 - 1105 (0600 - 1005) / 1215 (1115) - SS MAX 1900 (1800) SAT: 0700 - 1100 (0600 - 1000) / 1300 (1200) - SS MAX 1900 (1800) SUN/HOL: 0900 - 1100 (0800 - 1000) / 1300 (1200) - SS MAX 1700 (1600) HOL: REF AIP GEN 2.1.6., Local HOL REF LSZC AD 2.2.2
2	**Customs and immigration**	REF LSZC AD 2.20
3	**Health and sanitation**	NIL
4	**AIS Briefing Office**	AD OPR HR
5	**ATS Reporting Office (ARO)**	NIL
6	**MET Briefing Office**	NIL; REF LSZC AD 2.11
7	**ATS**	MON-FRI 0630 - 1105 (0530 - 1005) / 1215 - 1605 (1115 - 1505) Other times and SAT/SUN: O/R. MNM 24 HR before DEP, MNM 3 days before ARR due to local traffic regulations, see LSZC AD 2.20
8	**Fuelling**	O/R during AD OPR HR
9	**Handling**	Limited service O/R during AD OPR HR
10	**Security**	NIL
11	**De-icing**	NIL
12	**Remarks**	**AD: PPR**

LSZC AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities:**	NIL
2	**Fuel/oil types**	Jet A1 / MOBIL JET OIL II / Eastman (BP) 2380 Turbine Oil
3	**Fuelling facilities/capacity**	By fuel truck
4	**De-icing facilities**	NIL

5	**Hangar space for visiting aircraft**	O/R
6	**Repair facilities for visiting aircraft**	By Pilatus Ltd. maint O/R, limited to Pilatus ACFT only
7	**Remarks**	NIL

LSZC AD 2.5 PASSENGER FACILITIES

1	**Hotels**	Close to AD and surrounding cities
2	**Restaurants**	Close to AD and surrounding cities
3	**Transportation**	Taxis
4	**Medical facilities**	Hospital in the city (Stans)
5	**Bank and Post Office**	In the city
6	**Tourist Office**	NIL
7	**Remarks**	NIL

LSZC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Rescue and Firefighting Service (RFFS): • Allowed operations are: - non-CAT operation - CAT operations with aeroplanes with MTOM ≤ 2250 kg - HEL with MTOM ≤ 3175 kg • Personnel not necessarily on site • 1 fire extinguisher available east side of grey tent (H15) • 10 fire extinguisher available on the fence north side of tarmac • For CAT operations with aeroplanes with MTOM > 2250 kg: - O/R during ATS HR Category 3 - 5, 24 HR before ETD / ETA
2	**Rescue equipment**	2 fire trucks
3	**Capability for removal of disabled aircraft**	Up to 5.7 tonnes immediately, others O/R
4	**Remarks**	NIL

LSZC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	Snow removal available O/R
2	**Clearance priorities**	RWY, TWY, Apron
3	**Remarks**	All seasons

LSZC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Apron surface and strength**	ASPH: PCN 45/F/BX/U
2	**Taxiway width, surface and strength**	Width: TWY A: 12.0 m TWY B, C: 12.0 m TWY D: min 10.1 m, BTN TWY B - Pilatus factory 9.4 m, TWY E: 12.0 m; TWY F: 9.8 m. Surface: ASPH: PCN 45/F/BX/U
3	**ACL location and elevation**	NIL
4	**VOR/INS checkpoints**	NIL
5	**Remarks**	NIL

1.1.3 Approach procedure

1.1.3.1 Special regulation for IFR approach RNP A

Procedure limited to pilots operating for Pilatus Aircraft Ltd.

The APCH shall be used during HR of daylight only.
CTR 2 Emmen needs to be ACT for APCHs below *3500 ft AMSL.*

1.1.3.2 RAIM

No NOTAM RAIM service will be provided. It is the operator's responsibility to check RAIM availability. Due to the high terrain, a mask angle of 12.5 DEG should be chosen. EUROCONTROL provides the AUGUR tool for checking RAIM. It is AVBL from the following link: https://augur.eurocontrol.int

1.1.3.3 Procedure description of RNP A (see chart LSZC AD 2.24.10 - 1)

RNP A						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
-	RONIX	N	+6000	180	-	-
TF	ZC700	N	-	150	129° (130.7°T)	3.6
TF	ZC701	N	-	-	181° (182.9°T)	2.0
TF	KUSIX	N	+4500	-	216° (217.9°T)	2.7
TF	ZC760	Y	-	-	216° (217.8°T)	5.6
DF	ZC752	N	-	150	-	-
TF	ZC753	N	-	-	038° (039.9°T)	5.6
TF	RONIX	N	+6000	-	082° (083.5°T)	9.3

1.2 VFR procedure

Refer to VFR Manual, LSZC AD INFO.

1.3 Supplementary provisions regarding VFR-flights

Refer to VFR Manual, LSZC AD INFO.

2. Minima for IFR departures (TKOF minima)

RWY	ACFT CAT	RVR (m) / Ceiling (ft AGL)			RMK
		No LGT AVBL	REDL or RCLL AVBL	REDL and RCLL AVBL	
24	A	1400/---	1400/---	---	NIL
	B	1400/---	1400/---	---	
	C	1400/---	1400/---	---	
	D	1400/---	1400/---	---	

LSZC AD 2.23 ADDITIONAL INFORMATION

1. List of significant points (Terminal)

NAV point	COORD WGS84		Purpose
	LAT	LONG	
1	2		3
KUSIX	N 47 07 06.8	E 008 28 47.0	RNP APCH LSZC
ZC601	N 46 52 22.6	E 008 04 04.6	SID LSZC
ZC700	N 47 11 14.6	E 008 31 23.3	RNP APCH LSZC, GNSS LFN on trial
ZC701	N 47 09 16.6	E 008 31 14.7	RNP APCH LSZC
ZC752	N 47 08 13.3	E 008 08 36.2	RNP APCH LSZC
ZC753	N 47 12 32.6	E 008 13 54.5	RNP APCH LSZC
ZC760	N 47 02 41.4	E 008 23 45.7	RNP APCH LSZC

2. Bird concentrations in the vicinity of the airport

Tracer shots will be fired OCNL.

LSZC AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart	LSZC AD 2.24.1-1
Aerodrome Obstacle Chart - Type A - RWY 24	LSZC AD 2.24.4.1
SID RWY 24 - NON RNAV	LSZC AD 2.24.7.1
STAR to RONIX - RNAV 1	LSZC AD 2.24.9-1
IAC RNP A CAT A/B	LSZC AD 2.24.10-1
IAC VIS APCH	LSZC AD 2.24.10-3

LSZC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

LSGC - LES ÉPLATURES

LSGC AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSGC - LES ÉPLATURES

LSGC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	47 05 03 N 006 47 36 E - 234°/441 m from THR 23
2	**Direction and distance from the CITY**	2 km SW La Chaux-de-Fonds
3	**Elevation/Reference temperature**	*3368 ft* - 20.0°C
4	**Geoid undulation at AD ELEV PSN**	163.6 ft
5	**MAG VAR/Annual change**	2°.17' E (2019.5) / 0°09' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: ARESA Aéroport Régional Les Eplatures SA Boulevard des Eplatures 56 CH-2300 La Chaux-de-Fonds Phone: +41 (0) 32 925 97 97 AFS: LSGCYDYX Email: info@leseplaturesairport.ch
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSGC AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	1. 0700 (0600) - SS / MAX 1900 (1800) 2. AD CLSD: DEC 25, DEC 26, JAN 01
2	**Customs and immigration**	As AD Administration; Customs procedure and documents see: URL: http://www.leseplaturesairport.ch
3	**Health and sanitation**	NIL
4	**AIS Briefing Office**	As AD Administration
5	**ATS Reporting Office (ARO)**	As AD Administration
6	**MET Briefing Office**	NIL
7	**ATS**	As AD Administration
8	**Fuelling**	As AD Administration
9	**Handling**	As AD Administration / services O/R
10	**Security**	NIL
11	**De-icing**	NIL
12	**Remarks**	Other hours O/R by phone to AD Administration

LSGC AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	NIL
2	**Fuel/oil types**	JET A1, AVGAS 100LL 80, 100, W80, W100, W15W50, EXXON 23-80
3	**Fuelling facilities/capacity**	JET A1: dock with 30 m pipe / 180 L/MIN AVGAS 100LL: dock with 15 m pipe / 25 L/MIN
4	**De-icing facilities**	NIL
5	**Hangar space for visiting aircraft**	Limited - O/R to AD Administration
6	**Repair facilities for visiting aircraft**	Hangarage, major aircraft repairs and minor engine repairs for ACFT up to 5700kg
7	**Remarks**	Oxygen available in limited quantities

LSGC AD 2.5 PASSENGER FACILITIES

1	**Hotels**	Near AD and in city
2	**Restaurants**	2 restaurants at AD
3	**Transportation**	Buses, Taxis, Car rental O/R
4	**Medical facilities**	Hospital in city
5	**Bank and Post Office**	Near AD and in city
6	**Tourist Office**	In city Phone: +41 (0)32 889 68 95
7	**Remarks**	NIL

LSGC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 1 Category 2 - 4: O/R 24 HR before ETA/ETD
2	**Rescue equipment**	O/R
3	**Capability for removal of disabled aircraft**	NIL
4	**Remarks**	NIL

LSGC AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	2 Snow blower, 2 Snow ploughs, 2 Sweepers
2	**Clearance priorities**	1. RWY 2. TWY 3. Apron 4. Other areas
3	**Remarks**	NOV 01 - MAR 31 It is essential to check RWY conditions by TEL

LSGC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Designation, surface and strength of Aprons**	ASPH: - PCN 20 F/C/Y/T
2	**Designation, width, surface and strength of Taxiways**	TWY West and East: 9 m; intersection A: 20 m; intersection B: 16.5 m; intersection C: 12.5 m; All TWY ASPH: PCN 20 F/C/Y/T
3	**ACL location and elevation**	Holding point 05: *3363 ft* - Holding point 23: *3343 ft*
4	**Location of VOR checkpoints**	NIL
5	**Location of INS checkpoints**	NIL
6	**Remarks**	NIL

LSGC AD 2.9 SURFACE MOVEMENT GUIDANCE, CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Parking sectors Green and Orange: Marshalling and towing only, coloured perimeter markings. Parking sector Blue and Purple: Self-taxiing, max span 11 m (Blue) and 13 m (Purple), coloured centre lines.
2	**RWY/TWY markings and LGT**	Markings: RWY (designation, THR, TDZ, CL, begin and end), TWY (CL and holding positions). LGT: SALS 23, THR, REDL, RENL, no TWY LGT.
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	TWY between intersections A and B is located within the runway strip. No use without ATC instructions.

LSGC AD 2.10 AERODROME OBSTACLES

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 05 (1)	Building	*3349*	47 05 14 N 006 48 00 E	Crane/Cranes marked/LGTD	*3461*	47 04 58 N 006 47 12 E	B0517/00
AOC 05 (2)	Antenna	*3350*	47 05 14 N 006 48 01 E	Tower/Mast	*4738*	47 04 42 N 006 53 14 E	B0694/00
AOC 05 (3)	Pole	*3352*	47 05 15 N 006 48 00 E	Tower/Mast	*4551*	47 03 50 N 006 51 21 E	B0707/00
AOC 05 (4)	Antenna	*3354*	47 05 16 N 006 48 02 E	Antenna marked/LGTD	*3402*	47 05 09 N 006 47 44 E	B0144/01
AOC 05 (5)	Pole	*3359*	47 05 18 N 006 48 04 E	Cable	--------	47 08 51 N 006 52 51 E- 47 08 40 N 006 52 47 E	B0546/03
AOC 05 (6)	Building	*3366*	47 05 14 N 006 48 08 E	Antenna	*3970*	47 00 38 N 006 47 12 E	B0383/04
AOC 05 (7)	Tree/Trees	*3369*	47 05 18 N 006 48 05 E	Crane/Cranes marked/LGTD	*3419*	47 05 02 N 006 47 45 E	B0124/22
AOC 05 (8)	Antenna	*3377*	47 05 18 N 006 48 12 E				
AOC 05 (9)	Tree/Trees	*3396*	47 05 17 N 006 48 17 E				
AOC 05 (10)	Tree/Trees	*3404*	47 05 19 N 006 48 16 E				
AOC 05 (11)	Building	*3412*	47 05 23 N 006 48 13 E				
AOC 05 (12)	Antenna	*3415*	47 05 23 N 006 48 13 E				
AOC 05 (13)	Antenna	*3430*	47 05 24 N 006 48 14 E				
AOC 05 (14)	Antenna	*3449*	47 05 26 N 006 48 20 E				
AOC 05 (15)	Power line	*3483*	47 05 18 N 006 48 56 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 05 (16)	Building	*3524*	47 05 19 N 006 49 10 E				
AOC 05 (17)	Building	*3533*	47 05 20 N 006 49 13 E				
AOC 05 (18)	Tree/Trees	*3671*	47 05 23 N 006 49 43 E				
AOC 05 (19)	Tree/Trees	*3678*	47 05 24 N 006 49 43 E				
AOC 05 (20)	Tree/Trees	*3691*	47 05 25 N 006 49 45 E				
AOC 05 (21)	Tree/Trees	*3715*	47 05 22 N 006 49 49 E				
AOC 23 (1)	Pole	*3369*	47 04 50 N 006 47 14 E				
AOC 23 (2)	Tree/Trees	*3416*	47 04 49 N 006 47 14 E				
AOC 23 (3)	Tree/Trees	*3417*	47 04 41 N 006 46 57 E				
AOC 23 (4)	Tree/Trees	*3431*	47 04 38 N 006 46 48 E				
AOC 23 (5)	Tree/Trees	*3460*	47 04 36 N 006 46 40 E				
AOC 23 (6)	Tree/Trees	*3495*	47 04 34 N 006 46 37 E				
AOC 23 (7)	Tree/Trees	*3537*	47 04 30 N 006 46 26 E				
Refer also to LSGC AOC 05/23, LSGC AD 2.24.4-1							

LSGC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	MeteoSwiss
2	**Hours of service**	H24
3	**Office responsible for TAF preparation** **Periods of validity**	MeteoSwiss, Geneva 9 hours
4	**Type of landing forecast**	NIL
5	**Briefing/consultation provided**	Self Briefing Service (www.skybriefing.com)
6	**Flight documentation** **Language(s) used**	Digital En, Ge, Fr
7	**Charts and other information available for briefing or consultation**	All area forecast charts available worldwide
8	**Supplementary equipment available for providing information**	Internet connection in the briefing room
9	**ATS units provided with information**	Les Eplatures TWR
10	**Additional information (limitation of service, etc.)**	TEL: Weather briefing: 0900 162 767 (Fr), 0900 162 737 (Ge); accessible within Switzerland

LSGC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR COORD	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
05	054° GEO 052° MAG	1090 x 27	PCN 20 F/C/Y/T ASPH	47 04 52.89N 006 47 15.95E	*3368 ft*	AVG -0.746%
23	234° GEO 232° MAG			47 05 12.22N 006 47 55.32E	*3346 ft*	AVG +0.746%

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
1	8	9	10	11	12
05	NIL	60	1150 x 60	NIL	Non-instrument RWY Pavement surface width 30m RESA: 30 m Grooved
23	NIL	30		NIL	Non-instrument RWY Pavement surface width 30m RESA: 30 m Grooved

LSGC AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
05	1090	1150	1090	1054	Additional 40 m starter extension available, subject to Airport Authority approval
23	1090	1120	1090	1059	Additional 54 m starter extension available, subject to Airport Authority approval

LSGC AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	ALS Type, LEN, INTST	THR LGT Colour, INTST, WBAR	VASIS Type, PSN, MEHT	RTZL LEN, INTST	RCLL LEN, spacing, colour, INTST	REDL LEN, spacing, colour, INTST	RENL Colour, INTST	SWY LGT LEN, colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	NIL	RTHL G, LIH	APAPI 4.3° L 9.5 m	NIL	NIL	37 m, 80 m, R, LIH; 688 m, 80 m, W, LIH; 365 m, 80 m, Y, LIH	R, LIH	NIL	NIL
23	SALS 420 m LIH	RTHL G, LIH	APAPI 3.83° L 8.4 m	NIL	NIL	30 m, 80 m, R, LIH; 695 m, 80 m, W, LIH; 365 m, 80 m, Y, LIH	R, LIH	NIL	NIL

LSGC 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**	NIL
3	**TWY edge and centre line lighting**	NIL
4	**Secondary power supply/switch-over time**	NIL
5	**Remarks**	Obstruction marking and lighting

LSGC AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	NIL
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	1026 m / *3366 ft*
3	**TLOF and FATO area dimensions, surface, strength, marking**	FATO on RWY 05/23 ASPH, PCN 20 F/C/Y/T. No specific marking
4	**True BRG of FATO**	RWY 05: 054° RWY 23: 234°
5	**Declared distance available**	See: LSGC AD 2.13 for RWY 05/23
6	**APP and FATO lighting**	RWY LGT
7	**Remarks**	APCH via RWY and air taxi to apron. Follow ATC instruction.

LSGC AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	**Les Eplatures CTR** 47 00 51N 006 38 53E - along Swiss BDRY - 47 03 27N 006 42 31E - 47 03 47N 006 42 43E - 47 07 31N 006 49 40E - 47 10 44N 006 56 02E - 47 08 08N 006 58 27E - 47 06 00N 006 52 15E - 47 01 47N 006 47 30E - 46 58 51N 006 43 11E - 47 00 51N 006 38 53E
2	**Vertical limits**	*6500 ft*
3	**Airspace classification**	D
4	**ATS unit call sign Language(s)**	En, En and Fr for Non-Commercial VFR traffic.
5	**Transition altitude**	*7000 ft*
6	**Remarks**	ACT: HX

LSGC AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
TWR	Les Eplatures Tower	118.125 MHz	HX	NIL

LSGC 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
NIL						

LSGC AD 2.20 LOCAL AERODROME REGULATIONS

1. Airport regulations

No RDO ACFT, strictly PPR by phone to AD administration.

2. ACFT taxi and parking

Taxi on paved RWY and TWY only. Parking sectors Blue and Purple available for small aircraft, parking sectors Green and Orange for ICAO code letter A and B aircraft. Coloured lines (green, blue, purple and orange) delimit all parking areas. Panels indicate the positions and names of parking lines and sectors.

3. Summer times

High-density altitudes up to 6000 ft possible. Publication on METAR when temperatures are above 25°C.

4. Winter times

Operations only performed on non-contaminated RWY. Request information by TEL prior to flight in the period from OCT to APR. Runway condition broadcasted on METAR during ATS OPR HR.

5. School and training flights - technical test flights - use of runways

IFR and VFR school flights PPR.
No circuits permitted between 1100 and 1230 (1000 and 1130), after 1800 (1700), SUN and HOL.

LSGC AD 2.21 NOISE ABATEMENT PROCEDURES

1. General provisions

No go-around over city permitted for IFR school and training FLT (APCH RWY 23).

2. Use of the runway system during the day period

TKOF RWY 23 preferred for single engine ACFT.

LSGC AD 2.22 FLIGHT PROCEDURES

1. 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	
05	A	1500/1000	1500/1000	---	NIL
	B	1500/1000	1500/1000	---	
23	A	1500/800	1500/800	---	
	B	1500/800	1500/800	---	

1.1 SID Descriptions

1.1.0.1 Visual SID RWY 05 - RNAV (see chart LSGC AD 2.24.7 -1)

DESIGNATOR	RWY 05			
	ROUTE			
	Lateral	Vertical	Contact	Remark
FRIBOURG 6N (FRI 6N) PDG 4.0% to *5300ft* MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611 to BOMEC. At BOMEC turn left (MAX IAS 150kt during turn). Proceed to PALLU. Climb in the PALLU HLDG pattern to FL110. Proceed to FRI.	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at *4300ft* or above, GC611 at *6900ft* or above.	NIL	RNAV applicable when passing GC610
DEKAM 3M PDG 4.0% to *5300ft* MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611, BOMEC to DEKAM.	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at *4300ft* or above, GC611 at *6900ft* or above.	NIL	RNAV applicable when passing GC610
SAINT-PREX 6M (SPR 6M) PDG 4.0% to *5300ft* MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611 to BOMEC. At BOMEC turn left (MAX IAS 150kt during turn). Proceed via PALLU, FLORY to SPR.	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at *4300ft* or above, GC611 at *6900ft* or above.	NIL	RNAV applicable when passing GC610
SAINT-PREX 6N (SPR 6N) PDG 4.0% to *5300ft* MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC610 (Stone quarry). Proceed via GC611 to BOMEC. At BOMEC turn left (MAX IAS 150kt during turn). Proceed to PALLU. Climb in the PALLU HLDG pattern to FL110. Proceed via FLORY to SPR..	INITIAL CLIMB CLEARANCE FL080 Cross GC610 at *4300ft* or above, GC611 at *6900ft* or above.	NIL	RNAV applicable when passing GC610

Visual SID FRI 6N - RNAV							
Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMEC	Y		-	-	052° (054.4°T)	1.5
DF	PALLU	Y	L	-	-150	-	-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
TF	FRI	N	-	-	-	134° (135.9°T)	25.5
Remark: Distance from end of RWY05 to GC610 is 2.67NM							

Visual SID DEKAM 3M - RNAV							
Path terminator	**Waypoint**	**Flyover**	**Turn direction**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMEC	N	-	-	-	052° (054.4°T)	1.5
TF	DECAM	N	-	-	-	052° (054.4°T)	6.1
Remark: Distance from end of RWY05 to GC610 is 2.67 NM							

Visual SID SPR 6M - RNAV							
Path terminator	**Waypoint**	**Flyover**	**Turn direction**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMEC	Y		-	-	052° (054.4°T)	1.5
DF	PALLU	N	L	-	-150	-	-
TF	FLORY	N	-	-	-	217° (219.3°T)	13.5
TF	SPR	N	-	-	-	190° (192.1°T)	27.0
Remark: Distance from end of RWY05 to GC610 is 2.67 NM							

Visual SID SPR 6N - RNAV							
Path terminator	**Waypoint**	**Flyover**	**Turn direction**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	GC610	Y	-	+4300	-	-	-
TF	GC611	N	-	+6900	-	052° (054.3°T)	5.5
TF	BOMEC	Y		-	-	052° (054.4°T)	1.5
DF	PALLU	Y	L	-	-150		-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
TF	FLORY	N	-	-	-	217° (219.3°T)	13.5
TF	SPR	N	-	-	-	190° (192.1°T)	27.0
Remark: Distance from end of RWY05 to GC610 is 2.67 NM							

HLDG BOMEC:
INBD TR052, turns left, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

HLDG PALLU:
INBD TR052, turns right, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

1.1.0.2 Visual SID RWY 23 - RNAV (see chart LSGC AD 2.24.7 - 3)

DESIGNATOR	RWY 23			
	ROUTE			
	Lateral	Vertical	Contact	Remark
FRIBOURG 5B (FRI 5B) PDG 4.8% to *4900ft* MNM climb gradient 5.9% to *4900ft* from LSGC DER23 and 5.0% thereafter for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). At *4900ft*, but not before GC630, turn left (MAX IAS 150kt during turn). Climb in the PALLU HLDG pattern to FL110. Proceed to FRI	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at *4100ft* or above, PALLU at *7000ft* or above.	NIL	No turn before DER. RNAV applicable when passing GC630
DEKAM 3A PDG 4.8% to *4900ft* MNM climb gradient 5.9% to *4900ft* from LSGC DER23 and 5.0% thereafter for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). At *4900ft*, but not before GC630, turn left (MAX IAS 150kt during turn). Proceed via PALLU, BOMEC to DEKAM.	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at *4100ft* or above, BOMEC at *7000ft* or above.	NIL	No turn before DER. RNAV applicable when passing GC630
SAINT-PREX 5A (SPR 5A) PDG 4.8% to *4700ft* MNM climb gradient 5.0% for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). Proceed via GC631, FLORY to SPR	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at *4100ft* or above, GC631 at *6500ft* or above.	NIL	No turn before DER. RNAV applicable when passing GC630
SAINT-PREX 5B (SPR 4B) PDG 4.8% to *4900ft* MNM climb gradient 5.9% to *4900ft* from LSGC DER23 and 5.0% thereafter for airspace	Maintain visual GND contact until GC630 (Long industrial building followed by a sports field). At *4900ft*, but not before GC630, turn left (MAX IAS 150kt during turn). Climb in the PALLU HLDG pattern to FL110. Proceed via FLORY to SPR.	INITIAL CLIMB CLEARANCE FL080 Cross GC630 at *4100ft* or above, PALLU at *7000ft* or above.	NIL	No turn before DER. RNAV applicable when passing GC630

Visual SID FRI 5B - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC630	Y	-	+4100	-	-	-
CA	-	N	-	+4900	-	226° (228.6°T)	-
DF	PALLU	Y	L	+7000	-150	-	-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
DF	FRI	N	-	-	-	134° (135.9°T)	25.5

Visual SID DEKAM 3A - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC630	Y	-	+4100	-	-	-
CA	-	N	-	+4900	-	226° (228.6°T)	-
DF	PALLU	N	L	-	-150	-	-
TF	BOMEC	N	-	+7000	-	052° (054.1°T)	10.0
TF	DEKAM	N	-	-	-	052° (054.4°T)	6.1

Visual SID SPR 5A - RNAV

Path terminator	Waypoint	Flyover	Turn direction	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
DF	GC630	Y	-	+4100	-	-	-
TF	GC631	N	-	+6500	-	226° (228.6°T)	3.2
TF	FLORY	N	-	-	-	207° (209.5°T)	6.9
TF	SPR	N	-	-	-	190° (192.2°T)	27.0

Visual SID SPR 5B - RNAV							
Path terminator	**Waypoint**	**Flyover**	**Turn direction**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	GC630	Y	-	+4100	-	-	-
CA	-	N	-	+4900	-	226° (228.6°T)	-
DF	PALLU	Y	L	+7000	-150	-	-
HA	PALLU	Y	R	FL110	-150	052° (054.1°T)	1 min
TF	FLORY	N	-	-	-	217° (219.3°T)	13.5
TF	SPR	N	-			190° (192.1°T)	27.0

HLDG BOMEC:
INBD TR052, turns left, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

HLDG PALLU:
INBD TR052, turns right, OUBD leg 1 min, MNM HLDG ALT 7000ft, MAX HLDG FL110. MAX IAS 150kt.

2. STAR Descriptions

2.1 STAR ARPUS TO PALLU - RNAV (see chart LSGC AD 2.24.9.1 - 1)

	ARPUS TO PALLU - RNAV		
	ROUTE		
DESIGNATOR	**Lateral**	**Vertical**	**Remark**
ARPUS 3E	From ARPUS proceed via HR, ARNOT, DEKAM (MAX IAS 150kt), BOMEC to PALLU	HR MIN FL090, ARNOT MAX FL090, PALLU MNM *7000ft*.	HLDG ARPUS: Ref: AIP France

STAR ARPUS 3E - RNAV							
Path terminator	**Waypoint**	**Flyover**	**Turn direction**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	ARPUS	Y	-	-	-	-	-
TF	HR	N	L	+FL090	-	156° (157.9°T)	7.2
TF	ARNOT	N	-	-FL090	-	139° (141.3°T)	12.2
TF	DEKAM	N	R	+7000	-150	139° (141.0°T)	12.5
TF	BOMEC	N	-	+7000	-	232° (234.4°T)	6.1
TF	PALLU	Y	-	+7000	-	232° (234.3°T)	10.0

2.2 STAR TO PALLU - RNAV (see chart LSGC AD 2.24.9.2 - 1)

DESIGNATOR	TO PALLU		
	ROUTE		
	Lateral	Vertical	Remark
FRIBOURG 2R (FRI 2R)	Proceed from FRI to PALLU.	Maintain MNM FL110 to PALLU.	NIL
DEKAM 3R	From DEKAM proceed via BOMEC to PALLU	Cross BOMEC at *7000ft* or above, PALLU at *7000ft* or above	NIL
SAINT-PREX 3R (SPR 3R)	From SPR proceed via FLORY to PALLU	Maintain MNM FL110 to PALLU	NIL

STAR FRI 2R - RNAV						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	FRI	N	-	-	-	-
TF	PALLU	N	+FL110	-	314° (316.2°T)	25.5

STAR DEKAM 3R - RNAV						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	DEKAM	N	-	-	-	-
TF	BOMEC	N	+7000	-	232° (234.5°T)	6.1
TF	PALLU	N	+7000	-	232° (234.3°T)	10.0

STAR SPR 3R - RNAV						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	SPR	N	-	-	-	-
TF	FLORY	N	-	-	010° (012.0°T)	27.0
TF	PALLU	N	+FL110	-	037° (039.1°T)	13.5

HLDG PALLU:
INBD TR052, turns right, OUBD leg 1 min, MNM HLDG ALT *7000ft*, MAX HLDG FL110. MAX IAS 150kt.

2.3 Approach procedures:

APAPI has to be strictly followed in visual segment of all IFR-approaches due to obstacles on short final.

2.3.1 Procedure description of RNP RWY 05 (see chart LSGC AD 2.24.10 - 1)

From PALLU						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	PALLU	N	-FL110 +7000	-150	-	-
TF	FLORY	N	+7000	-150	217° (219.3°T)	13.6
TF	GC750	N	+7000	-150	336° (338.3°T)	2.8
TF	GC751	N	+7000	-	048° (050.1°T)	3.3
TF	GC752	Y	-	-	048° (050.2°T)	8.6
TF	GC753	Y	+7000	-	048° (050.3°T)	10.3
DF	PALLU	Y	-FL110 +7000	-130	-	-
HM	PALLU	Y	-FL110 +7000	-150	052° (054.1°)	-

From FLORY						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	FLORY	N	+7000	-150	-	-
TF	GC750	N	+7000	-150	336° (338.3°T)	2.8
TF	GC751	N	+7000	-	048° (050.1°T)	3.3
TF	GC752	Y	-	-	048° (050.2°T)	8.6
TF	GC753	Y	+7000	-	048° (050.3°T)	10.3
DF	PALLU	Y	-FL110 +7000	-130	-	-
HM	PALLU	Y	-FL110 +7000	-150	052°(054.1°)	-

2.3.2 Procedure description of RNP RWY 23 (see chart LSGC AD 2.24.10 - 3)

From BALIR						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	BALIR	N	+7000	-	-	-
TF	GC701	N	+7000	-	241° (243.2°T)	4.4
TF	DEKAM	N	+7000	-	232° (234.7°T)	3.7
TF	BOMEC	N	+7000	-	232° (234.5°T)	6.1
TF	RW23	Y	-	-	232° (234.4°T)	9.7
DF	GC704	Y	-	-	232° (234.3°T)	4.0
DF	PALLU	Y	-FL110 +7000	-150	-	-
HM	PALLU	Y	-FL110 +7000	-150	052°(054.1°)	-

From PALLU						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	PALLU	N	-FL110 +7000	-150	-	-
TF	BOMEC	N	+7000	-	052° (054.1°T)	10.0
TF	GC706	N	+7000	-	024° (026.2°T)	6.8
TF	DEKAM	N	+7000	-	139° (141.3°T)	3.2
TF	BOMEC	N	+7000	-	232° (234.5°T)	6.1
TF	RW23	Y	-	-	232° (234.4°T)	9.7
TF	GC704	Y	-	-	232° (234.3°T)	4.0
DF	PALLU	Y	-FL110 +7000	-150	-	-
HM	PALLU	Y	-FL110 +7000	-150	052°(054.1°)	-

LSGC AD 2.23 ADDITIONAL INFORMATION

1. List of significant points (Terminal)

NAV point	COORD WGS84		Back-up Definition			Purpose
	LAT	LONG	Radial	DME	NAV	
1	2		3			4
ARPUS	N 47 40 21.3	E 006 39 56.8	---	---	---	STAR LSGC
BOMEC	N 47 10 50.4	E 006 59 26.9	---	---	---	STAR/SID LSGC
FRI VOR	N 46 46 39	E 007 13 25	---	---	---	STAR/SID LSGC
GC610	N 47 06 47.5	E 006 51 09.6	---	---	---	SID LSGC
GC611	N 47 09 58.1	E 006 57 39.6	---	---	---	SID LSGC
GC630	N 47 02 41.4	E 006 43 37.2	---	---	---	SID LSGC
GC631	N 47 00 33.2	E 006 40 05.0	---	---	---	SID LSGC
GC701	N 47 16 31.0	E 007 11 08.4	---	---	---	IAC LSGC
GC704	N 47 02 51.0	E 006 43 07.8	---	---	---	IAC LSGC
GC706	N 47 16 54.1	E 007 03 49.5	---	---	---	IAC LSGC
GC750	N 46 57 07.2	E 006 33 35.2	---	---	---	IAC LSGC
GC751	N 46 59 13.5	E 006 37 16.3	---	---	---	IAC LSGC
GC752	N 47 04 41.6	E 006 46 53.0	---	---	---	IAC LSGC
GC753	N 47 11 16.7	E 006 58 31.9	---	---	---	IAC LSGC
SPR VOR	N 46 28 07	E 006 26 53	---	---	---	STAR/SID LSGC

LSGC AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart	LSGC AD 2.24.1 - 1
Aircraft Parking Chart	LSGC AD 2.24.2 - 1
Aerodrome Obstacle Chart - Type A - RWY 05/23	LSGC AD 2.24.4 - 1
Visual SID RWY 05 - RNAV	LSGC AD 2.24.7 - 1
Visual SID RWY 23 - RNAV	LSGC AD 2.24.7 - 3
STAR ARPUS TO PALLU - RNAV	LSGC AD 2.24.9.1 - 1
STAR TO PALLU - RNAV	LSGC AD 2.24.9.2 - 1
IAC RNP RWY 05 CAT A, B	LSGC AD 2.24.10 - 1
IAC RNP RWY 23 CAT A, B	LSGC AD 2.24.10 - 3

LSGC AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

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LSGG - GENÈVE

LSGG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSGG - GENÈVE

LSGG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 14 18N 006 06 34E RWY, 2000 m from RWY end 04
2	**Direction and distance from the CITY**	322°, 4 km from Genève
3	**Elevation/Reference temperature**	*1411 ft* 24.8°C
4	**Geoid undulation at AD ELEV PSN**	172.3 ft
5	**MAG VAR/Annual change**	2° E (2018.5) 0°10' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	**Administration:** Post: Aéroport International de Genève Case postale 100 CH-1215 Genève 15 AFS: LSGGYDYX URL: http://www.gva.ch/ Phone: +41 (0) 22 717 71 11 Fax: +41 (0) 22 798 43 77 Email: info.aig@gva.ch **Airport Duty Manager:** Phone: +41 (0) 22 717 79 79 Email: airport.manager@gva.ch **Aviation Authority:** Police aérienne Phone: +41 (0) 22 717 71 28 Email: pa@gva.ch **Airport Operations:** Phone: +41 (0) 22 717 71 27 Phone: +41 (0) 22 717 71 26 (PPR) Fax: +41 (0) 22 717 71 31 Email: ops@gva.ch
7	**Types of traffic permitted** (**IFR**/**VFR**)	IFR / VFR
8	**Remarks**	NIL

LSGG AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	Airport Duty Manager: H24
2	**Custom and immigration**	H24
3	**Health and sanitation**	H24
4	**AIS Briefing Office**	0500 - 2300 (0400 - 2200)
5	**ATS Reporting Office (ARO)**	H24
6	**MET Briefing Office**	H24
7	**ATS**	H24
8	**Fuelling**	0400 - 2200 (0300 - 2100), O/R 2201 - 0359 (2101 - 0259)
9	**Handling**	0400 - 2300 (0300 - 2200), O/R 2301 - 0359 (2201 - 0259)
10	**Security**	H24
11	**De-icing**	0400 - 2300 (0300 - 2200), O/R 2301 - 0359 (2201 - 0259)
12	**Remarks**	Swiss and French customs. BTN 2331 - 0459 (2231 - 0359), expect the operational availability of the RWY within 40 min and only for MEDEVAC, HEMS, SAR, EMERG and flights holding a prior approval from the Airport Duty Manager, due to regular maintenance works.

LSGG AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	All modern facilities
2	**Fuel/oil types**	JET A1, AVGAS 100LL 65, 80, 100/120, E80, E100, W100, W120+Turbine
3	**Fuelling facilities/capacity**	No limitations
4	**De-icing facilities**	• Scheduled traffic: SWISSPORT, Dnata • Non-scheduled traffic and General Aviation: JET AVIATION, TAG AVIATION, DASSAULT AVIATION
5	**Hangar space for visiting aircraft**	LGT ACFT: 1 Hangar 101 x 20x 4,10 m 1 Hangar 80 x 20 x 5,10 m 1 Hangar 80 x 20 x 5,50 m Commercial and general aviation: 1 Hangar 170 x 62,5 x 15 m Workshop 80 x 42,5 x 4,15 m
6	**Repair facilities for visiting aircraft**	Hangarage, major aircraft repairs and major engine repairs up to 5700 kg A 300, 310, 319, 320, 330, 340, B 727, 737, 747, 757, 767, BAC 111, BAE 125, Beech 90, 100, 200, 300, 400, Canadair 600, 601, 604, CASA 212, Cessna 500, 550, 560, Convair 580, Falcon 10, 20, 50, 900, 2000, G-II59, G-I59, G-4, G-5, Lear 20, 23, 24, 25, 31, 35, 36, 55, 60, Lockheed 731, 1011, MD80, Mitsubishi 300, PC12, Piper 31, 42, Rockwell 690.
7	**Remarks**	Oxygen and related servicing

LSGG AD 2.5 PASSENGER FACILITIES

1	**Hotels**	In city and around the AP
2	**Restaurants**	Swiss and French restaurants, fast food, bar at the AP
3	**Transportation**	Buses, taxis, trains, car rental
4	**Medical facilities**	First aid at AP, hospitals in the city, 2 ambulances
5	**Bank and Post Office**	At AP and in city
6	**Tourist Office**	At AP and in city
7	**Remarks**	NIL

LSGG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	0500 - 2330 (0400 - 2230): Category 9 and O/R category 10 2331 - 0459 (2231 - 0359): Category 7 and O/R category 9
2	**Rescue equipment**	Available, 1 rescue boat, 6 inflatable rafts for 37 passengers each, 2 inflatable raft for 65 passengers each.
3	**Capability for removal of disabled aircraft**	B-747
4	**Remarks**	Ambulances available H24

LSGG AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	13 Jetbrooms, 10 snow ploughs, 16 trucks, 4 de-icers, 6 snow blowers
2	**Clearance priorities**	Runway, taxiways, then Apron
3	**Remarks**	Snow removal assured RWY 04/22 de-iced / anti-iced with KFOR (potassium formate fluids) or with NAFO (sodium formate solids)

LSGG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Designation, surface and strength of Aprons**	South parking sectors (90, 95, D, A, Satellites 20, 30, 40, positions 1 to 11, positions 61 to 66, positions 73 to 76, positions 83, 84): CONC - PCN 60 R/B/W/T. Positions 85 to 89, positions 15 to 19, positions 69 to 72, positions 54 to 58, positions 48, 151, 152, 181, 182, 191, 192: CONC - PCN 90 R/B/W/T. TAG aviation, positions 67, 68: ASPH - PCN 50 F/B/W/T. North Apron: ASPH - PCN 40 F/C/W/T.
2	**Designation, width, surface and strength of Taxiways**	TWY A, B, C, D, E, G and Outer: WID 23 m. TWY Inner, Link 4 and Link 5 located within the overall paved apron area. CONC - PCN 90 R/B/W/T TWY F: WID: 20 m. ASPH - PCN 52 F/B/W/T TWY Y and Z: WID 10.5 m. CONC - PCN 60 R/B/W/T
3	**ACL location and elevation**	Beginning RWY 04: *1407.5 ft* Beginning RWY 22: *1363 ft* Parking sectors A, D and 70-88: *1393 ft* Parking sectors 2-61: *1377 ft*
4	**Location of VOR checkpoints**	NIL

5 Location of INS checkpoints

NR	COORD WGS 84	NR	COORD WGS 84	NR	COORD WGS 84
1	46 13 44.92N 006 06 14.72E	16	46 14 01.17N 006 06 38.14E	27	46 13 51.44N 006 06 11.30E
2	46 13 45.77N 006 06 16.70E	17	46 14 03.09N 006 06 40.87E	28	46 13 51.43N 006 06 12.81E
3	46 13 46.93N 006 06 18.13E	18	46 14 04.66N 006 06 43.39E	31	46 13 54.96N 006 06 20.73E
3A	46 13 46.97N 006 06 18.60E	181	46 14 04.19N 006 06 43.01E	32	46 13 52.59N 006 06 18.95E
4	46 13 47.97N 006 06 19.46E	182	46 14 05.87N 006 06 43.32E	33	46 13 53.64N 006 06 15.65E
5	46 13 48.92N 006 06 20.84E	19	46 14 06.56N 006 06 46.19E	34	46 13 56.08N 006 06 17.28E
8	46 13 49.70N 006 06 22.47E	191	46 14 06.09N 006 06 45.81E	42	46 13 56.79N 006 06 25.20E
9	46 13 51.36N 006 06 24.43E	192	46 14 07.69N 006 06 46.08E	43	46 13 57.86N 006 06 21.84E
10	46 13 52.24N 006 06 25.83E	21	46 13 50.64N 006 06 13.73E	44	46 14 00.30N 006 06 23.49E
11	46 13 53.18N 006 06 27.21E	22	46 13 49.67N 006 06 13.70E	48	46 14 42.28N 006 07 29.40E
		23	46 13 48.90N 006 06 12.55E	48A ARR	46 14 43.34N 006 07 29.47E
15	46 13 59.24N 006 06 35.44E	24	46 13 48.83N 006 06 11.17E	48A DEP	46 14 44.25N 006 07 28.19E
151	46 13 58.78N 006 06 35.08E	25	46 13 49.56N 006 06 09.95E	48B ARR	46 14 42.39N 006 07 28.08E
152	46 14 00.45N 006 06 35.36E	26	46 13 50.61N 006 06 09.96E	48B DEP	46 14 43.29N 006 07 26.80E
54	46 14 31.00N 006 07 10.66E				
55	46 14 32.04N 006 07 12.19E	121	46 13 50.73N 006 06 14.54E	G1	46 14 14.22N 006 05 56.57E
56	46 14 33.09N 006 07 13.73E	123	46 13 48.36N 006 06 12.88E	G2	46 14 13.75N 006 05 55.88E
57	46 14 34.14N 006 07 15.26E	125	46 13 49.43N 006 06 09.46E	G3	46 14 13.28N 006 05 55.19E
58	46 14 36.17N 006 07 18.14E	127	46 13 51.86N 006 06 11.11E	G4	46 14 12.82N 006 05 54.52E
61	46 14 03.10N 006 06 29.50E	A1	46 13 33.18N 006 05 51.60E	H1	46 14 15.17N 006 06 07.56E
62	46 14 04.10N 006 06 30.80E	A2	46 13 32.30N 006 05 50.60E	H2	46 14 15.54N 006 06 08.02E
63	46 14 05.80N 006 06 33.40E	A3	46 13 31.23N 006 05 50.28E	H3	46 14 15.85N 006 06 08.56E
64	46 14 06.64N 006 06 34.84E	A4	46 13 32.02N 006 05 49.11E	H4	46 14 16.54N 006 06 09.57E
64A	46 14 05.81N 006 06 33.99E	A5	46 13 32.89N 006 05 47.93E	H5	46 14 17.23N 006 06 10.57E
65	46 14 08.00N 006 06 36.60E	A6	46 13 33.72N 006 05 46.75E	H6	46 14 17.91N 006 06 11.57E
66	46 14 08.90N 006 06 38.00E	A7	46 13 34.13N 006 05 46.12E	H8	46 14 01.03N 006 05 53.00E
66A	46 14 08.60N 006 06 38.00E	A8	46 13 34.60N 006 05 46.82E	H REGA	46 14 01.19N 006 05 48.73E
67	46 14 12.36N 006 06 42.58E	A9	46 13 35.40N 006 05 48.00E		
68	46 14 13.54N 006 06 44.31E				
69	46 14 14.27N 006 06 47.57E	D1	46 13 27.20N 006 05 45.75E	I1	46 14 05.08N 006 05 54.14E
70	46 14 16.26N 006 06 48.65E	D2	46 13 27.88N 006 05 46.51E	I2	46 14 05.67N 006 05 53.29E
71	46 14 17.10N 006 06 51.33E	D3	46 13 27.85N 006 05 44.54E		
72	46 14 16.61N 006 06 50.62E	D4	46 13 28.48N 006 05 45.33E		
73	46 14 18.25N 006 06 53.82E	D5	46 13 27.71N 006 05 45.81E		

5	Location of INS checkpoints					
	74	46 14 19.21N 006 06 55.23E			L0	46 14 06.89N 006 05 55.01E
	75	46 14 20.12N 006 06 56.70E	E1	46 14 13.37N 006 06 01.82E	L1	46 14 07.44N 006 05 55.82E
	76	46 14 21.08N 006 06 58.10E	E2	46 14 12.84N 006 06 01.16E	L2	46 14 08.00N 006 05 56.63E
			E3	46 14 12.38N 006 06 00.47E	L3	46 14 08.55N 006 05 57.44E
	83	46 13 44.25N 006 06 05.59E	E4	46 14.11.96N 006 05 59.76E	L4	46 14 09.10N 006 05 58.25E
	84	46 13 43.12N 006 06 04.01E	E5	46 14 11.49N 006 05 59.07E	L5	46 14 09.65N 006 05 59.06E
	85	46 13 41.65N 006 06 01.60E	E6	46 14 11.03N 006 05 58.38E	L6	46 14 10.20N 006 05 59.87E
	85A	46 13 41.09N 006 06 00.62E	E7	46 14 10.57N 006 05 57.71E	L7	46 14 10.75N 006 06 00.68E
	86	46 13 40.60N 006 05 59.30E			L8	46 14 11.30N 006 06 01.48E
	86A	46 13 40.70N 006 05 59.60E	F1	46 14 14.78N 006 05 59.82E	L9	46 14 11.85N 006 06 02.29E
	87	46 13 39.70N 006 05 56.80E	F2	46 14 14.31N 006 05 59.14E	L10	46 14 12.44N 006 06 03.15E
	87A	46 13 39.91N 006 05 57.00E	F3	46 14 13.84N 006 05 58.45E		
	88	46 13 39.20N 006 05 54.19E	F4	46 14 13.37N 006 05 57.76E	PC1	46 14 44.79N 006 07 31.97E
	89	46 13 38.29N 006 05 55.14E	F5	46 14 12.90N 006 05 57.07E	PC2	46 14 43.75N 006 07 32.31E
	89A	46 13 38.80N 006 05 52.79E	F6	46 14 12.43N 006 05 56.39E	PC3	46 14 42.50N 006 07 32.81E
	89B	46 13 38.33N 006 05 53.94E	F7	46 14 11.98N 006 05 55.71E	PC4	46 14 41.51N 006 07 33.10E
	89C	46 13 37.30N 006 05 55.19E			PC5	46 14 40.69N 006 07 32.53E
	90A	46 13 36.17N 006 05 48.86E			PC6	46 14 39.83N 006 07 31.14E
	90B	46 13 35.16N 006 05 50.28E			PC7	46 14 38.80N 006 07 30.17E
	90C	46 13 34.16N 006 05 51.70E			PC8	46 14 38.34N 006 07 28.59E
					PC9	46 14 40.10N 006 07 28.30E
	95A	46 13 30.93N 006 05 40.87E			PC10	46 14 41.09N 006 07 27.96E
	95B	46 13 31.57N 006 05 41.82E			PE1	46 14 45.31N 006 07 32.67E
	95C	46 13 32.21N 006 05 42.77E			PF1	46 14 40.59N 006 07 34.34E
	95D	46 13 31.19N 006 05 41.25E			PF2	46 14 37.17N 006 07 29.55E
	95E	46 13 31.94N 006 05 42.35E				

6	Remarks	The TWY system north of the RWY fulfils ACFT code letter B operations with MAX wingspan 21.5 m. The TWY system south of the RWY fulfils ACFT code letter E operations (MAX wingspan 65 m). Due to proximity of TWY and taxilane with terminal buildings and equipment areas use minimum power when taxiing IN/OUT ACFT stands to avoid jet blast. Exceptions and particularities are listed below: Link 0, Link 1, Link 2, Link 3 and TWY Inner (between Link 0 and Link 4): MAX wingspan 48.0 m. Link A and Link D: MAX wingspan 36.0 m. TWY C: The clearance distance between outer main gear and taxiway edge is at least 3.8 m for A346, when nose wheel is over taxiway centre line (EASA requirement: 4.5 m). TWY F: Usable in CAT I conditions only. Available to ACFT up to wake turbulence CAT MEDIUM, except B757 and TU154. Restrictions to vacate RWY04: TWY F is available for ACFT up to wake turbulence CAT MEDIUM, except B757 and TU154; TWY E is available for ACFT up to wake turbulence CAT MEDIUM. Restrictions to vacate RWY22: TWY B is available for ACFT up to wake turbulence CAT MEDIUM. TWY Outer and ACFT stands 87 to 89A, and 95A to 95E: Wing tip clearance for an ACFT with 65 m wingspan lies BTN 7.5 m and 10 m. TWY Outer and Inner west of Link 1: Wing tip to wing tip clearance may be reduced to at least 7.5 m depending on taxiing ACFT. B748, A124 or EQV code letter F ACFT (except A388) may operate under special conditions (marshalling, dedicated ACFT stand).

LSGG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM, MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	"Follow-me" cars (Ref to § 8.3.4) **ACFT stand 80s:** ACFT stand manoeuvring guidance lights AVBL. **Parking PSNs NR** **1, 2, 3, 4, 5, 8, 9, 10, 11, 15, 151, 152, 16, 17, 18, 181, 182, 19, 191, 192, 83, 84, 85, 86:** Alignment of ACFT: Align ACFT with the VER chevrons which indicate if the ACFT is left, right or centred on the taxilane. Stopping of ACFT: Slow down and stop as indicated by the closing rate indicator.
2	**RWY/TWY markings and LGT**	RWY markings: DTHR, THR, designation, aiming point, TDZ, centre line and side stripe. TWY: centre line, holding positions (REF: LSGG AD 2.24) North Apron: no TWY centre lights
3	**Stop bars and RWY guard lights**	LIH, R A,B,C,D,E, F (uncontrolled, LVP only), G,Y,Z
4	**Other RWY protection measures**	NIL
5	**Remarks**	**Stop at parking PSNs:** The pilot has to stop by lining up his left shoulder with the STOP line transmitted by "Geneva Apron". If the Aircraft Positioning and Information System (APIS) is switched off, the stand is not cleared for entry. Request assistance from "Geneva Apron". Nose-in parking ACFT have to use push back when LVE the parking PSN. RWY 04/22 marking aids: Refer to Aerodrome chart 1:13'000 REF: LSGG AD 2.24.1 - 1

LSGG AD 2.10 AERODROME OBSTACLES

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 04 (1)	Tree/Trees	*1383*	46 15 13 N 006 07 47 E	Crane/Cranes marked/LGTD	*1734*	46 16 30 N 006 05 40 E	A0653/18
AOC 04 (2)	Tree/Trees	*1388*	46 15 13 N 006 07 46 E	Crane/Cranes marked/LGTD	*1463*	46 15 36 N 006 08 37 E	A0248/08
AOC 04 (3)	Tree/Trees	*1402*	46 15 13 N 006 08 00 E	Antenna LGTD	*1572*	46 13 35 N 006 07 11 E	A0049/02
AOC 04 (4)	Tree/Trees	*1415*	46 15 12 N 006 08 03 E	Pole LGTD	*1424*	46 14 16 N 006 06 48 E	A0273/07
AOC 04 (5)	Tree/Trees	*1423*	46 15 21 N 006 07 54 E	Antenna marked/LGTD	*1539*	46 13 32 N 006 06 01 E	
AOC 04 (6)	Tree/Trees	*1427*	46 15 22 N 006 07 56 E	Antenna marked/LGTD	*1535*	46 13 07 N 006 08 31 E	
AOC 04 (7)	Tree/Trees	*1430*	46 15 21 N 006 07 59 E	Crane/cranes	*1536*	46 13 13 N 006 08 15 E	
AOC 04 (8)	Tree/Trees	*1445*	46 15 29 N 006 08 12 E	Tower/Mast LGTD	*1522*	46 13 48 N 006 06 29 E	
AOC 04 (9)	Tree/Trees	*1496*	46 15 35 N 006 08 11 E	Antenna marked/LGTD	*1398*	46 14 54 N 006 07 41 E	
				Antenna marked/LGTD	*1529*	46 13 30 N 006 05 58 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***		
				Building marked/LGTD	*1535*	46 12 49 N 006 07 20 E	
				Antenna marked/LGTD	*1522*	46 14 02 N 006 07 11 E	
AOC 22 (1)	Localizer	*1429*	46 13 29 N 006 05 22 E	Building LGTD	*1523*	46 14 11 N 006 06 58 E	A0051/02
AOC 22 (2)	Building	*1430*	46 13 23 N 006 05 21 E	Antenna LGTD	*1565*	46 13 49 N 006 07 08 E	
AOC 22 (3)	Building	*1430*	46 13 24 N 006 05 18 E	Building marked/LGTD	*1539*	46 14 03 N 006 05 04 E	
AOC 22 (4)	Building	*1435*	46 13 28 N 006 05 12 E	Tree/trees	*1493*	46 15 36 N 006 08 22 E	
AOC 22 (5)	Building	*1442*	46 13 27 N 006 05 10 E	Antenna marked/LGTD	*1453*	46 13 33 N 006 05 14 E	A0438/13
AOC 22 (6)	Tree/Trees	*1445*	46 13 21 N 006 05 19 E	Antenna marked/LGTD	*1575*	46 13 19 N 006 07 19 E	
AOC 22 (7)	Tree/Trees	*1450*	46 13 22 N 006 05 14 E	Antenna marked/LGTD	*1428*	46 14 27 N 006 06 24 E	A0437/13
AOC 22 (8)	Tree/Trees	*1454*	46 13 24 N 006 05 09 E	Pole LGTD	*1398*	46 14 43 N 006 07 27 E	A0108/02
AOC 22 (9)	Tree/Trees	*1466*	46 13 20 N 006 05 13 E	Pole LGTD	*1507*	46 13 26 N 006 05 49 E	A0054/09
AOC 22 (10)	Tree/Trees	*1470*	46 13 22 N 006 05 07 E	Antenna LGTD	*1490*	46 14 15 N 006 06 59 E	A0124/12
AOC 22 (11)	Tree/Trees	*1473*	46 13 22 N 006 05 05 E	Crane/Cranes marked/LGTD	*1586*	46 12 58 N 006 07 14 E	B0431/08
AOC 22 (12)	Tree/Trees	*1487*	46 13 16 N 006 05 50 E	Crane/Cranes marked/LGTD	*1497*	46 13 49 N 006 06 26 E	A0210/08
AOC 22 (13)	Tree/Trees	*1511*	46 12 59 N 006 05 49 E	Pole marked	*1369*	46 15 02 N 006 07 36 E	A0364/09
AOC 22 (14)	Building	*1523*	46 12 59 N 006 04 47 E	Antenna marked/LGTD	*1470*	46 13 50 N 006 05 44 E	A0251/02
AOC 22 (15)	Tree/Trees	*1533*	46 12 56 N 006 04 43 E	Antenna marked/LGTD	*1391*	46 15 00 N 006 07 48 E	A0436/13
AOC 22 (16)	Tree/Trees	*1547*	46 12 48 N 006 04 33 E	Antenna LGTD	*1523*	46 14 00 N 006 07 09 E	A0329/02
				Anemometer marked/LGTD	*1396*	46 14 54 N 006 07 20 E	A0355/09
				Anemometer marked/LGTD	*1396*	46 14 55 N 006 07 20 E	A0353/09
				Antenna marked/LGTD	*1383*	46 15 07 N 006 07 35 E	A0435/13
				Antenna LGTD	*1744*	46 14 04 N 006 02 27 E	A0103/12
				Antenna marked/LGTD	*1402*	46 14 55 N 006 07 18 E	A0434/13
				Antenna	*1594*	46 13 52 N 006 07 19 E	A0154/12
				Pole marked/LGTD	*1436*	46 14 07 N 006 06 36 E	A0320/12
				Pole marked/LGTD	*1437*	46 14 05 N 006 06 33 E	A0319/12

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		
				Pole marked/LGTD	1441	46 14 11 N 006 06 44 E	A0411/12
				Pole marked/LGTD	1441	46 14 12 N 006 06 47 E	A0412/12
				Crane/Cranes marked/LGTD	1522	46 13 23 N 006 04 26 E	A0657/13
				Measuringmast marked/LGTD	1410	46 14 20 N 006 06 12 E	A0395/14
				Antenna LGTD	1523	46 14 04 N 006 07 15 E	A0143/03
				Tree/trees	1483	46 14 29 N 006 06 28 E	A0378/03
				Tree/trees	1447	46 14 35 N 006 06 47 E	A0379/03
				Tree/trees	1447	46 14 47 N 006 07 03 E	A0380/03
				Antenna marked/LGTD	1503	46 13 00 N 006 04 56 E	A0333/03
				Antenna marked/LGTD	1539	46 14 28 N 006 07 52 E	A0099/04
				Antenna LGTD	1460	46 14 12 N 006 05 53 E	A0206/04
				Antenna LGTD	1453	46 13 27 N 006 05 37 E	A0216/06
				Antenna marked/LGTD		46 14 55 N 006 07 19 E	A0334/07
				Measuringmast marked/LGTD	1440	46 13 50 N 006 05 46 E	A0394/14
				Pole marked/LGTD	1430	46 14 13 N 006 06 44 E	A0384/14
				Crane/Cranes marked/LGTD	1602	46 13 15 N 006 06 10 E	A0573/18
Refer also to LSGG AOC 04/22, LSGG AD 2.24.4 - 1							

LSGG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	MeteoSwiss
2	**Hours of service**	H24
3	**Office responsible for TAF preparation** **Periods of validity**	MeteoSwiss, Geneva 30 hours
4	**Type of landing forecast**	Trend; issuance: HH+20, HH+50
5	**Briefing/consultation provided**	Self Briefing Service (www.skybriefing.com), (TAMSI[1]), Briefing officer
6	**Flight documentation** **Language(s) used**	Digital and hard copy En, Ge, Fr
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**	Geneva TWR / APP
10	**Additional information (limitation of service, etc.)**	Geneva Weather Centre AVBL H24 from dedicated TEL (internal number 8231). TEL: Weather briefing: 0900 162 767 (Fr), 0900 162 737 (Ge); accessible within Switzerland. Lightning alert: Siren followed by red FLG lights are ACT on apron areas in case of high risk of lightning within a 5 km range of the AP. End of alert: Red FLG lights are extinguished together with discontinued siren for five SEC.

1. TAMSI = TAF METAR SIGMET

LSGG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR COORD	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
04	046° GEO 044° MAG	3900 x 50	PCN 81 R/B/W/T CONC	46 13 40.23N 006 05 38.24E	1411 ft	Refer to: AOC RWY 04/22
22	226° GEO 224° MAG			46 15 01.30N 006 07 37.22E	1365 ft	

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
1	8	9	10	11	12
04	NIL	60 x 150	4020 x 300	YES	Precision approach RWY CAT I Grooved surface RESA: 100 x 100 m.
22		60 x 150		YES	Precision approach RWY CAT III Grooved surface RESA: 90 x 100 m.

LSGG AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
04	3900	3960	3900	3570	Full length
	3570	3630	3570	3570	From DTHR 04
	3200	3260	3200	not applicable	Intersection FOXTROTT
	2600	2660	2600		Intersection ECHO
	2750	2810	2750		Intersection ZULU
	1850	1910	1850		Intersection CHARLIE
	1870	1930	1870		Intersection YANKEE
22	3900	3960	3900	3900	Full length
	2600	2660	2600	not applicable	Intersection BRAVO
	2000	2060	2000		Intersections YANKEE/CHARLIE
	1140	1200	1140		Intersection ZULU

Note: RWY 22, limited runway end safety area provided.

LSGG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	ALS Type, LEN, INTST	THR LGT colour, INTST, WBAR	VASIS Type, PSN, MEHT	RTZL LEN, INTST	RCLL LEN, spacing, colour, INTST	REDL LEN, spacing, colour, INTST	RENL colour, INTST	SWY LGT LEN, colour	RMK
1	2	3	4	5	6	7	8	9	10
04 CONC	Calvert CAT I, 720m, LIH	RTHL G, LIH, WBAR; RTIL FLG W	PAPI 3.0°, L, 18.50m	NIL	3000m, 15m, W, LIH; 600m, 15m, R/W, LIH; 300m, 15m, R, LIH	330m, 30m R, LIH; 2970m, 30m, W, LIH; 600m, 30m, Y, LIH	R, LIH	NIL	NIL
22 CONC	Calvert CAT II/III, 900m, LIH	RTHL G, LIH, WBAR; RTIL FLG W	PAPI 3.0°, L, 20.56m	900m, LIH		3300m, 30m, W, LIH; 600m, 30m, Y, LIH	R, LIH	NIL	See note below

Note: Supporting structures for RWY 22 elevated approach lights are non-frangible.

LSGG 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**	NIL
3	**TWY edge and centre line lighting**	EDGE: LIL, B; Apron area, RWY exits, TWY curves. CL: LIH, G; coded Y/G on ILS critical/sensitive areas; TWY A, B, D, E, G, OUTER, INNER, LINK 0,1,2,3,4,5 and holding bays A and G. RETIL: LIH, Y; TWY B, D and E RGL: TWY A*, B, C, D, E, F, G*, Y and Z (* across TWY) Apron + Stop bars: refer to LSGG AD 2.24
4	**Secondary power supply/switch-over time**	Yes / CAT I: MAX 1s; CAT II/III: MAX 1s
5	**Remarks**	Obstacle marking and lighting

LSGG AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	NIL
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	TLOF: *421 m / 1382 ft*
3	**TLOF and FATO area dimensions, surface, strength, marking**	TLOF: 6 HEL stands, ASPH, yellow numbered circles. HEL stands 1 and 3 to 6: MAX overall dimension 17 m, MAX rotor diameter 14 m ALTN HEL stand 2: MAX overall dimension 19 m, MAX rotor diameter 16 m. FATO: not explicitly defined, use nearby TWY Y, CTN to the taxiing TFC.
4	**True BRG of FATO**	NIL
5	**Declared distance available**	NIL
6	**APP and FATO lighting**	NIL
7	**Remarks**	Simultaneous hover operations on HEL stands are not allowed.

LSGG AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions and remarks

1.1 Scheduled air traffic and charter flights

Scheduled air traffic and charter FLTs are subject to schedule coordination performed by Slot Coordination Switzerland.
Permission requests for slots shall be submitted to:
Slot Coordination Switzerland e-mail: slot@slotcoordination.ch
ACFT stopovers of more than 3 hours (including night stops), as well as ACFT type changes are subject to parking stand availability.

1.2 Non-scheduled flights

All non-scheduled flights with origin or destination outside of Schengen-area shall send general declaration to border control prior to ARR or DEP.

1.3 Other non-scheduled commercial air traffic as well as non-commercial air traffic

Non-scheduled commercial air traffic and non-commercial air traffic (airplanes and HEL) are subject to coordination requirement PPR.

Airplanes (IFR):
- PPR availability on http://ppr.gva.ch
- For non-scheduled commercial air traffic PPR slot shall be requested via handling agent (REF: LSGG AD 2.20, § 4).
- For non-commercial air traffic using north apron only, PPR slot can be requested via PPR Office.
- Reservation possible 5 days in advance (Day-5)

Airplanes (VFR)
- PPR for VFR airplanes traffic: refer to VFR Manual LSGG AD INFO.

Helicopters (IFR)
- PPR availability on http://ppr.gva.ch
- For non-scheduled commercial air traffic, PPR slot shall be requested via handling agent (REF: LSGG AD 2.20, § 4).
- Reservation possible 5 days in advance (Day-5)
- For non-commercial air traffic, PPR slot can be requested via PPR Office.
- Reservation possible on the day of operation (Same day).
- Reservation for parking on helipad mandatory through PPR office.

Helicopters (VFR)
- PPR for VFR helicopter traffic: refer to VFR Manual LSGG AD INFO.

PPR Office:
- PPR Office OPN HR: MON to SUN 0700 - 1700 (0600 - 1600).
  Phone number +41 (0) 22 717 71 26.

PPR slot:
- PPR slot has to be requested before filing any flight plan.
- Permission number must be indicated in item 18 of FPL.
- FPL has to include DEP or ARR time based on allocated PPR time frame.
- Any modifications and/or cancellations must be immediately notified to handling agent or to the PPR Office.

1.4 Not subject to permission requirements are:

a. SAR FLTs, medical FLTs, police FLTs, Swiss MIL FLTs and FLTs authorised or operated by FOCA;
b. Air traffic which has to divert to Geneva due to safety, MET, technical or medical reasons, except during specific periods notified by NOTAM.

Despite the PPR exemption criteria, flights must be announced to Airport Operations (+41 (0) 22 717 71 26 or +41 (0) 22 717 71 27) except for emergency cases.

1.5 Helicopters Operations

North Apron: Simultaneous hover operations on HEL stands are not allowed
South Apron: HEL FLTs are subject to special AUTH from Genève AP Authorities (except HUG SAR HEL).
For AUTH, contact airport.manager@gva.ch or the AP Duty Manager + 41 (0) 22 717 79 79.
Request for AUTH has to include:
- Date of FLT (ARR and DEP)
- ARR time (UTC)
- DEP time (UTC)
- Type of HEL
- Reason for operating on south apron

2. Night ban regulations

2.1 General

According to Chapter 4, Section 2 of the VIL (edict 748.131.1 concerning aeronautical infrastructure) on the rules governing night-time FLTs, LDGs and DEPs are banned for:

Commercial Air Transport see § 2.2;
Non-commercial Air Transport see § 2.3.

2.2 Commercial Air Transport

Definition of Commercial Air Transport: ''S'' or ''N'' as per ICAO flight plan see ENR 1.10.
LDGs of Commercial Air Transport are banned from 2300 to 0359 (2200 to 0259) and restricted from 0400 to 0459 (0300 to 0359).

LDGs from 0400 to 0459 (0300 to 0359) are only permitted provided the carrier:

a. has submitted and received prior APV from the Genève AP Authorities to publish an STA during this time frame, and
b. holds a Genève AP slot during this time frame which has been issued by Slot Coordination Switzerland.

Delayed LDGs may be tolerated between 2300 and 2329 (2200 and 2229). Prior APV from the Genève AP Authorities must be obtained.
For LDGs of Chapter (Stage) two ACFT, see § 2.5
Ferry FLT ARRs are:

a. Banned from 2100 to 0459 (2000 to 0359).
b. Derogations from 2100 to 2259 (2000 to 2159) may be given by the Genève AP Authorities.

LDGs of supplementary FLTs during the night bans described in § 2.20.2.2 and carried out during the period from the second FRI before Christmas (25 DEC) to the second MON after the New Year (01 JAN) are only permitted provided the carrier:

a. has submitted and received prior APV from the Genève AP Authorities to publish an STA during this time frame, and
b. holds a Genève AP slot during this time frame issued by Slot Coordination Switzerland.

In the morning, LDGs can only expect to REC an APCH clearance if they are overhead SPR (RWY 22)
or INDIS (RWY 04) or 20 NM track miles to touchdown at the earliest 5 MIN before the respective night ban ends.
LDG clearance will be issued only if touchdown will occur after the end of the night ban.
In the evening, LDGs can only expect to REC an APCH clearance if they are overhead SPR (RWY 22)
or INDIS (RWY 04) or 20 NM track miles to touchdown no later than 10 MIN before the respective night ban comes into effect.
LDG clearance will be issued only if touchdown will occur before the night ban.

DEPs of Commercial Air Transport are:

a. banned from 2300 to 0459 (2200 to 0359)
b. restricted from 2100 to 2259 (2000 to 2159).
c. ACFT shall be fully ready at the holding point at latest 10 minutes before the applicable night regulation comes into effect.
d. Departure remains subject to traffic.

DEPs from 2100 to 2259 (2000 to 2159) are only permitted provided:

a. ACFT with a noise index less than 98 EPNdb are used to DESTs (non-stop FLTs only) of more than 5000 km (2700 NM), or
b. ACFT with a noise index less than 96 EPNdb are used for all other DESTs.
c. Non-Scheduled Commercial ACFT of noise category 4 or 5 holding a valid PPR and prior APV from the Genève AP Authorities.

Delayed DEPs may be tolerated between 2300 and 2329 (2200 and 2229). Prior APV from the Genève AP Authorities must be obtained.
For DEPs of Chapter (Stage) two ACFT see § 2.5.

Ferry FLT DEPs are:

a. Banned from 2100 to 0459 (2000 to 0359).
b. Derogations from 2100 to 2259 (2000 to 2159) may be given by the Genève AP Authorities.

DEPs of supplementary FLTs during the night bans described in § 2.20.2.3 and carried out during the period from the second FRI before Christmas (25 DEC) to the second MON after the New Year (01 JAN) are only permitted provided the carrier:

a. has submitted and received prior APV from the Genève AP Authorities to publish an STD during this time frame, and
b. holds a Genève AP slot during this time frame issued by Slot Coordination Switzerland.

Prior permission is required from the Genève AP Authorities by all commercial air transport operations during the night bans described in § 2.2. Permission to operate during the night ban is only granted in exceptional circumstances.

LSGG AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

LSGG AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

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LSZG - GRENCHEN

LSZG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZG - GRENCHEN

LSZG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	47 10 53 N 007 24 59 E RWY midpoint
2	**Direction and distance from the CITY**	1.5 km SE Grenchen
3	**Elevation/Reference temperature**	*1411 ft AMSL* - 24.0° C
4	**Geoid undulation at AD ELEV PSN**	160.5 ft
5	**MAG VAR/Annual change**	2° E (2016) / 0° 11' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Regionalflugplatz Jura-Grenchen AG CH-2540 **Grenchen** Phone: +41 (0) 32 396 96 96 AFS: LSZGYDYX Email: office@airport-grenchen.ch URL: http://www.airport-grenchen.ch/
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZG AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	1. JAN-DEC 0700 (0600) - HRH; MAX 2000 (1900) 2. Outside OPR HR O/R - 1500 (1400) 3. WED AD OPN till 1900 (1800) for Night FLT (VFR + IFR) except DEC 26 and JAN 02 4. AD CLSD: DEC 25, DEC 26, JAN 01 HRH = Day and night limits. REF: GEN 2.7.
2	**Customs and immigration**	AD OPR HR; Customs procedures and documents see: URL: https://zollform.airport-grenchen.ch Declaring goods O/R customs Bern TEL +41 (0) 58 462 68 69
3	**Health and sanitation**	NIL
4	**AIS Briefing Office**	AD OPR HR
5	**ATS Reporting Office (ARO)**	NIL
6	**MET Briefing Office**	NIL
7	**ATS**	HX
8	**Fuelling**	AD OPR HR
9	**Handling**	NIL
10	**Security**	NIL
11	**De-icing**	NIL
12	**Remarks**	NIL

LSZG AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	NIL
2	**Fuel/oil types**	JET A1, AVGAS 100LL 80/100; 15W50
3	**Fuelling facilities/capacity**	HEL without landing gear airtaxi to H4.
4	**De-icing facilities**	NIL
5	**Hangar space for visiting aircraft**	Restricted
6	**Repair facilities for visiting aircraft**	Hangar, major aircraft repairs and minor engine repairs for ACFT up to 5700 kg
7	**Remarks**	Oxygen and related servicing (working days only)

LSZG AD 2.5 PASSENGER FACILITIES

1	**Hotels**	At AD and in city
2	**Restaurants**	At AD and in city
3	**Transportation**	Buses, Taxi, Rental car available O/R TEL +41 (0) 32 396 96 96
4	**Medical facilities**	Ambulance O/R; Hospital in Solothurn
5	**Bank and Post Office**	In city
6	**Tourist Office**	In city
7	**Remarks**	NIL

LSZG AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 1 Higher category (MAX 3): O/R 3 HR before ETA/ETD
2	**Rescue equipment**	1 fire vehicle, defibrillator, rescue vessel
3	**Capability for removal of disabled aircraft**	NIL
4	**Remarks**	NIL

LSZG AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	Snow removal available
2	**Clearance priorities**	NIL
3	**Remarks**	Seasonal availability: All seasons

LSZG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Apron surface and strength**	ASPH: - PCN 30 F/C/Y/T
2	**Taxiway width, surface and strength**	10.5 m ASPH: - PCN 30 F/C/Y/T TWY A and D: max. wingspan 24.0 m TWY N: max. wingspan 21.0 m Details: ref to LSZG AD 2.24.2 - 1
3	**ACL location and elevation**	Apron *1411 ft*
4	**VOR/INS checkpoints**	NIL
5	**Remarks**	NIL

LSZG AD 2.23 ADDITIONAL INFORMATION

1. List of significant points (Terminal)

NAV point	COORD WGS84		Purpose
	LAT	LONG	
1	2		3
ZG100	N 47 10 59.4	E 007 25 05.5	SID/IAC LSZG
ZG201	N 47 09 58.3	E 007 21 44.6	SID LSZG
ZG202	N 46 57 54.5	E 007 16 53.3	SID LSZG
ZG501	N 47 07 58.2	E 007 21 14.8	SID LSZG
ZG502	N 47 11 05.0	E 007 33 26.8	SID LSZG
ZG503	N 47 11 22.2	E 007 27 31.2	IAC LSZG
ZG504	N 47 10 04.0	E 007 22 29.4	IAC LSZG
ZG505	N 47 08 12.8	E 007 24 08.2	IAC LSZG
ZG506	N 47 14 33.2	E 007 47 58.5	IAC LSZG
ZG601	N 47 11 14.9	E 007 27 15.4	SID LSZG
ZG602	N 47 07 32.4	E 007 22 56.7	SID LSZG
ZG603	N 47 02 50.9	E 007 20 02.2	SID LSZG
ZG604	N 47 11 40.9	E 007 30 52.1	SID LSZG
ZG605	N 47 05 29.3	E 007 29 59.8	SID LSZG
ZG606	N 46 54 48.0	E 007 20 33.3	SID LSZG

LSZG AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

Name		Page
Aerodrome Chart	CTR	LSZG AD 2.24.1 - 1
Aerodrome Chart	RMZ	LSZG AD 2.24.1 - 3
Aircraft Parking Chart	CTR	LSZG AD 2.24.2 - 1
Aircraft Parking Chart	RMZ	LSZG AD 2.24.2 - 3
Aerodrome Obstacle Chart - Type A - RWY 06/24		LSZG AD 2.24.4 - 1
SID RWY 06/24 RNAV		LSZG AD 2.24.7 - 1
SID RWY 06 - RNAV (GNSS)		LSZG AD 2.24.7 - 3
SID RWY 24 - RNAV (GNSS)		LSZG AD 2.24.7 - 5
SID RWY 06/24 - RNAV 1		LSZG AD 2.24.7 - 7
SID RWY 06/24 - NON RNAV		LSZG AD 2.24.7 - 9
IAC RNP RWY 24 CAT A/B		LSZG AD 2.24.10 - 1

LSZG AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

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LSZA - LUGANO

LSZA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZA - LUGANO

LSZA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 00 13N 008 54 37E RWY midpoint
2	**Direction and distance from the CITY**	4 km W Lugano
3	**Elevation/Reference temperature**	*915 ft AMSL* - 27.0° C
4	**Geoid undulation at AD ELEV PSN**	166.7 ft
5	**MAG VAR/Annual change**	2° E (2016.5) / 0°10' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Lugano Airport via Aeroporto CH-6982 Agno Phone: +41 (0) 91 610 11 11 Fax: +41 (0) 91 610 11 00 Email: info@luganoairport.ch URL: www.luganoairport.ch **LSZA-Airport Authority:** Phone: +41 (0) 79 917 68 01 Email: airportauthority@luganoairport.ch
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZA AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	AD OPR HR: 0700-1100 (0600-1000) and 1230-1900 (1130-1800) from MON to SUN and HOL.
2	**Customs and immigration**	AD OPR HR
3	**Health and sanitation**	NIL
4	**AIS Briefing Office**	AD OPR HR
5	**ATS Reporting Office (ARO)**	CTC ARO Zurich; Phone: +41 (0) 43 931 61 61
6	**MET Briefing Office**	AD OPR HR
7	**ATS**	AD OPR HR
8	**Fuelling**	AD OPR HR
9	**Handling**	AD OPR HR
10	**Security**	AD OPR HR
11	**De-icing**	AD OPR HR
12	**Remarks**	Extension for all FLTs outside of the AD operating hours between 0600-2100 (0500-2000) with PPR minimum 48 HR notice before ETA/ETD. Each request has to be send via email to gahandling@luganoairport.ch. Exception: Special permission possible 24/7 O/R for HOSP FLT, SAR FLT, FLT of the Swiss Confederation and members of the Swiss Government.

LSZA AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities:**	All modern facilities
2	**Fuel/oil types**	JET A1, AVGAS 100LL
3	**Fuelling facilities/capacity**	No limitations for all types of ACFT permitted at AD
4	**De-icing facilities**	Lugano Airport - Service available from 01 NOV to 30 APR De-icing fluid available: Type II: Killfrost ABC K-Plus
5	**Hangar space for visiting aircraft**	NIL
6	**Repair facilities for visiting aircraft**	Hangar, major aircraft repairs
7	**Remarks**	Airline handling agent: Lugano Airport Phone: +41 (0) 91 610 12 82 Fax: +41 (0) 91 610 12 25 FREQ: 131.430 MHz SITA: LUGKKXH General aviation handling: Lugano Airport Phone: +41 (0) 91 610 11 16 Fax: +41 (0) 91 610 11 19 FREQ: 131.805 MHz AFS: LSZAYDYH Email: gahandling@luganoairport.ch

LSZA AD 2.5 PASSENGER FACILITIES

1	**Hotels**	In city
2	**Restaurants**	At AD and in city
3	**Transportation**	Shuttle buses, trains, taxis, car rentals
4	**Medical facilities**	Ambulance O/R Hospital in city
5	**Bank and Post Office**	In city
6	**Tourist Office**	At AD and in city
7	**Remarks**	NIL

LSZA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 3 Category 4 O/R 3 HR before ETA/ETD HYR category O/R 24 HR before ETA/ETD
2	**Rescue equipment**	Hydraulic and outing tools, 2 rescue boats.
3	**Capability for removal of disabled aircraft**	No limitations for all type of ACFT admitted at AD
4	**Remarks**	NIL

LSZA AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	Snow removal vehicles: 1 RWY de-icer, 1 ACFT de-icer
2	**Clearance priorities**	RWY, TWY, then apron
3	**Remarks**	All seasons: RWY / TWY / apron: De-iced / Anti-iced with KFOR (potassium formate fluids)

LSZA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Designation, surface and strength of Aprons**	ASPH - PCN 30/F/B/W/T
2	**Designation, width, surface and strength of Taxiways**	TWY M and N: MNM 18.6 m (DH8D OPS); TWY L: 15 m ASPH - PCN 30/F/B/W/T
3	**ACL location and elevation**	Apron *902 ft (275 m)*
4	**Location of VOR checkpoints**	NIL
5	**Location of INS checkpoints**	NIL
6	**Remarks**	Slopes on Apron partially exceeding 1%

LSZA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM, MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	ACFT stand identification markings: Lead-in, stop and lead-out lines. Apron safety lines. Taxiing and parking procedures: see LSZA AD 2.24.2 - 1
2	**RWY/TWY markings and LGT**	RWY markings: D-THR, designation, aiming point, touchdown zone and centre line. RWY LGT: see LSZA AD 2.14 TWY markings: Centre line and intermediate holding positions; RWY holding position, enhanced TWY centre line and mandatory instruction at all intersections with RWY. TWY LGT: Edge lights on TWY L, M and N. Runway guard lights on TWY M and N. Mandatory instruction signs at all RWY holding positions. Information signs on the movement area. No RWY turn pad centre line lights provided.
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	NIL

LSZA AD 2.10 AERODROME OBSTACLES

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 01 (1)	Pole	*934*	46 00 37 N 008 54 46 E	Antenna LGTD	*1020*	46 00 09 N 008 54 23 E	
AOC 01 (2)	Pole	*943*	46 00 37 N 008 54 46 E	Crane/Cranes marked/LGTD	*989*	46 00 18 N 008 54 48 E	B1216/21
AOC 01 (3)	Pole	*954*	46 00 38 N 008 54 45 E	Tower/Mast LGTD	*945*	46 00 03 N 008 54 36 E	
AOC 01 (4)	Pole	*970*	46 00 41 N 008 54 46 E	Antenna LGTD	*1529*	46 02 15 N 008 56 20 E	
AOC 01 (5)	Building	*980*	46 00 44 N 008 54 47 E	Antenna LGTD	*1526*	46 00 39 N 008 55 32 E	B0555/01
AOC 01 (6)	Pole	*983*	46 00 47 N 008 54 49 E	Telephone line	45 m AGL	45 59 36 N 008 50 13 E - 45 59 36 N 008 50 06 E	B0016/02
AOC 01 (7)	Building	*985*	46 00 48 N 008 54 48 E	Tower marked/LGTD	*998*	46 00 16 N 008 54 31 E	B0121/02
AOC 01 (8)	Building	*996*	46 00 49 N 008 54 49 E	Tower LGTD	*974*	46 00 43 N 008 54 54 E	B0043/04
AOC 01 (9)	Tree/Trees	*1025*	46 01 08 N 008 55 06 E	Silo	*965*	46 00 53 N 008 54 59 E	B0480/05
AOC 01 (10)	Building	*1040*	46 01 19 N 008 55 12 E	Power line	72 m AGL	45 59 18 N 008 52 23 E - 45 59 18 N 008 52 38 E	B0617/05
AOC 01 (11)	Tree/Trees	*1069*	46 01 38 N 008 55 03 E	Pole LGTD	*2366*	46 02 43 N 008 57 44 E	B0471/07
AOC 01 (12)	Power line	*1100*	46 01 37 N 008 55 22 E	Pole LGTD	*1752*	45 57 49 N 008 52 56 E	B0470/07
AOC 01 (13)	Power line	*1113*	46 01 40 N 008 55 16 E	Pole LGTD	*1886*	46 02 58 N 008 55 54 E	B0469/07
AOC 01 (14)	Power line	*1137*	46 01 45 N 008 55 12 E				
AOC 01 (15)	Power line	*1155*	46 01 42 N 008 55 24 E	Pole marked/LGTD	*989*	46 00 13 N 008 54 28 E	B0099/09
AOC 01 (16)	Tree/Trees	*1214*	46 01 57 N 008 56 08 E	Pole LGTD	*1825*	46 01 28 N 008 56 46 E	B1145/09
AOC 01 (17)	Tree/Trees	*1228*	46 02 05 N 008 56 11 E	Pole LGTD	*1914*	45 58 27 N 008 54 48 E	B1144/09
AOC 01 (18)	Antenna	*1520*	46 02 15 N 008 56 20 E	Power line marked	90 m AGL	46 05 32 N 009 03 11 E - 46 05 33 N 009 02 51 E	C0366/05
AOC 01 (19)	Tree/Trees	*1555*	46 02 24 N 008 56 52 E	Cable CW	80 m AGL	46 03 52 N 008 55 12 E - 46 03 43 N 008 54 43 E	B0054/06
AOC 01 (20)	Tree/Trees	*1660*	46 02 21 N 008 56 58 E	Building	3m AGL	46 00 41 N 008 54 49 E	B0131/07
AOC 01 (21)	Building	*1664*	46 02 19 N 008 57 04 E	Chimney LGTD	25 m AGL	46 01 15 N 008 55 00 E	B0130/07
AOC 01 (22)	Tree/Trees	*1815*	46 02 19 N 008 57 11 E	Antenna marked, LGTD	*5414*	45 55 35 N 009 00 54 E	B0733/08

LSZA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	ALS Type LEN, INTST	THR LGT Colour INTST WBAR	VASIS Type PSN, MEHT	RTZL LEN, INTST	RCLL LEN, spacing, colour, INTST	REDL LEN, spacing, colour, INTST	RENL Colour, INTST	SWY LGT LEN, colour	RMK
1	2	3	4	5	6	7	8	9	10
01	NIL	RTHL G, LIH, WBAR; RTIL FLG W	PAPI 4.17°, L, 6.27 m; PAPI 6.00°, L, 15.54 m	Simple TZL* 323 m FM THR 01, W, LIH	740 m, 30 m, W, LIH; 375 m, 30 m, R/W, LIH; 300 m, 30 m, R, LIH	110 m, 60 m, R, LIH; 830 m, 60 m, W, LIH; 475 m, 60 m, Y, LIH	R, LIH	NIL	PAPI 6.00° only switched on for IGS RWY 01 approaches
19	RLLS, Seq. FLG LGT W LIH; SALS, 360m, LIH	RTHL G, LIH, WBAR; RTIL FLG W	PAPI 4.17°, L, 6.71 m	Simple TZL*, 323 m FM THR 19, W, LIH		280 m, 60 m, R, LIH; 660 m, 60 m, W, LIH; 475 m, 60 m, Y, LIH	R, LIH	NIL	RLLS follows circling Charlie track

* The purpose of simple touchdown zone lights is to provide pilots with enhanced situational awareness in all visibility conditions and to help enable pilots to decide whether to commence a go-around if the aircraft has not landed by a certain point on the runway.

LSZA 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**	NIL
3	**TWY edge and centre line lighting**	TWY edge lighting
4	**Secondary power supply/switch-over time**	< 1 s
5	**Remarks**	Obstruction marking and lighting: partly

LSZA AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	FATO: 46 00 12.87 N / 008 54 36.86 E
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	*276 m / 907 ft*
3	**TLOF and FATO area dimensions, surface, strength, marking**	TLOF HEL stands 1 and 2: MAX Overall LEN 17 m, Rotor Diameter 14 m, ASPH, marked and numbered circles with diameter 6.5 m. TLOF HEL stands 3 and 4: MAX Overall LEN 13 m, Rotor Diameter 11 m, ASPH, marked and numbered circles with diameter 6.5 m. FATO: paved RWY 01-19.
4	**True BRG of FATO**	RWY 01: 019° RWY 19: 199°
5	**Declared distance available**	See: LSZA AD 2.13 for RWY 01/19
6	**APP and FATO lighting**	RWY LGT
7	**Remarks**	Simultaneous hover operations on HEL stands are not allowed

LSZA AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	**Lugano CTR** 45 55 51 N 008 46 22 E - 46 03 43 N 008 54 41 E Arc of circle centred on 46 02 26 N 008 57 10 E, Radius 2.16 NM, clockwise 46 01 21 N 008 59 51 E - 45 52 54 N 008 52 50 E Arc of circle centred on 45 54 15 N 008 49 29 E, Radius 2.70 NM, clockwise 45 55 51 N 008 46 22 E
2	**Vertical limits**	*6500 ft AMSL (2000 m)*
3	**Airspace classification**	D
4	**ATS unit call sign Language(s)**	Lugano TWR En; En and It for Non-Commercial VFR traffic.
5	**Transition altitude**	*6000 ft AMSL (1800 m)*
6	**Remarks**	ACT: HX

LSZA AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	**2**	**3**	**4**	**5**
ATIS		121.175 MHz	H24	TEL Service +41 (0) 22 417 40 88
TWR VDF	Lugano Tower	120.250 MHz 119.700 MHz	HX do.	QDM AVBL O/R ALTN FREQ En; En and It for Non-Commercial VFR traffic.
CLR DEL	Lugano Delivery	121.780 MHz	HX	

LSZA 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**
ILS 01-LOC	ILU	108.90 MHz	H24	46 00 42.15N 008 54 51.21E		LOC PSN: 409 m FM THR 19. **RWY 01:** LOC course 017° MAG. Front course sector width 5°. Restricted coverage: at 10 NM - 30° W to 30° E from CL above *5000 ft* AMSL.
GP 01		329.30 MHz	H24	46 00 01.28N 008 54 34.40E		GP Angle 6.65°. PSN: 123 m FM THR 01. GP HGT THR 01: 48 ft / 14.6 m. Restricted coverage: at 8 NM - 8° W to 8° E from CL above *5000 ft* AMSL.
DME 01	ILU	26X	H24	46 00 41.27N 008 54 49.04E	*942 ft*	DME Co-located with LOC, reads D0.8 at THR 01. Restricted coverage: at 10 NM - 6° W to 14° E from CL above *5000 ft* AMSL. at 10 NM - 25° W to 25° E from CL above *5900 ft* AMSL.

LSZA AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions and remarks

1.1 Commercial and Private traffic

- DEPs and LDGs may be planned according AD OPR HR.
- If out of NML OPS HR, PPR according to Remarks in LSZA AD 2.3

1.2 AD circuits only

- AD circuits can be allowed between 0700-1100 (0600-1000) and 1300- SS [MAX -1700] (1200-SS [MAX -1600]) from Monday to Friday and between 0800-1100 (0700-1000) and 1400-1600 (1300-1500) on Saturday.
- Night VFR flights (circuits) under instruction are allowed from SS to 1900 (1800) from Monday to Friday.
- If out of NML OPS HR, PPR according to Remarks in LSZA AD 2.3

1.3 Apron - Parking

- Taxing on the APRON is at the PIC's discretion. No ATC service is provided. TWR will issue ADVS as far as practicable.
- HEL OPS during the night, air taxi via N.
- Embarking and disembarking crew members, passengers, luggage and catering with the engine running is prohibited.
- Refuelling with the engine running is prohibited. Exceptions can be granted by Lugano AP Authority for EMERG reasons.
- For general aviation ACFT, the parking period for arriving ACFT shall be indicated in item 18 of the flight plan.
- "Follow me" SER on request.
- For handling and fuelling, SER priority is given to SKED FLT.
- Refueling on the grass is forbidden. For any fuel request contact TWR for coordination.
- **Safety Rules for Crews and Passengers**
  All persons on the Airside must wear a high-visibility jacket which complies with EN 471 standard class 2 or 3. With the exception of passengers of scheduled and general aviation FLTs accompanied by the handling agent or crew members wearing high-visibility clothing or vests.
  Crew members arriving without high-visibility clothing or vests must be transported by car by the handling agent.
- **Security Rules for Crew Members**
  Crew members holding an Airport ID Card or crew member certificate must ensure it is visible. Departing crew members accessing the movement area must already have filed a FPL or flight notification.

1.4 Exceptions to local flying restrictions

Outside of operating HR, special AUTHs can be issued for the Federal Department of Transport, Communications and Energy and for the Swiss Federal Department of Defence, in particular, for State ACFT, and:

- SAR FLTs,
- police and supervision FLTs,
- FLTs carrying sick and injured persons,
- transport of transplant organs,
- relief FLTs in disaster cases.

2. Procedure for departure

Do not start engines before ACFT is ready to LVE parking PSN in order to minimise ground noise.

2.1 Aircraft

For IFR or SVFR FLT, a **start-up clearance** shall be requested on the Lugano CLR DEL FREQ.

3. De-icing

3.1 Clean Aircraft Concept (CAC)

Clean Aircraft Concept as defined in ICAO Doc 9640 is applied; aircraft are de-iced according to the requirements of SAE AS6285. Airport Authority can intervene in case of non-adherence.

LSZA AD 2.21 NOISE ABATEMENT PROCEDURES

1. General

- The following regulations are defined to avoid excessive noise at and in the VCY of Lugano AP.
- Operators UNA to comply with these rules and procedures shall submit for APV to Lugano AP Authority those procedures they intend to apply.
- All ACFT types to be used for regular services at Lugano AP will be subject to an individual noise qualification prior to receiving operational rights.
- In particular cases, Lugano AP Authority can issue differing procedures and rules for noise abatement.

2. Aircraft not admitted unless a special authorisation

The following ACFT types are not admitted to operate at Lugano AP unless a special AUTH has been issued by Lugano AP Authority.
The request for a special AUTH must be filed at least 24 HR before the intended ARR.

2.1 Jet aeroplanes

REF: GEN 4.1.12., class I, II, III, IV.

2.2 Propeller aeroplanes

REF: GEN 4.1.13., class A and following aeroplanes of class B:

- BE-55 Beech Baron 55
- C 210 Cessna
- C 336/337 Cessna; 336 Skymaster/337 Super Skymaster

2.3 Helicopters

- Bell 204
- Bell 214
- Kamow

3. Circling procedure RWY 19

The Circling Foxtrot procedure is the preferential manoeuvre for noise abatement purposes when LDG on RWY 19.
FLTs performing a visual APCH to RWY 19 from a PSN south or east of the AP are requested, if conditions permit, to join the circling Foxtrot pattern at the beginning of the base turn.

4. Reverse thrust

For deceleration it is recommended to use the entire RWY LEN AVBL; use of reverse thrust shall be limited to only when safety or particular operational reasons require it.

5. Taxi and holding

Aeroplanes shall be operated so as to reduce noise to a MNM during TAX and HLDG operations.

6. Auxiliary Power Units (APU)

The following regulations are applicable to the use of APU:

- a MAX of 20 MIN prior to the ACFT DEP,
- a MAX of 20 MIN after the ACFT ARR.

The use of APU shall be restricted to a MNM DUR.
For maintenance, only the GPU shall be used, except for technical reasons on Coordination with the Airport Authority.

7. Instruction and qualification flights

Operators are requested to plan introduction flights well in advance. Airport authority should be contacted whenever possible latest 5 days in advance of the planned training.

LSZA AD 2.23 ADDITIONAL INFORMATION

1. List of significant points

NAV point	COORD WGS84		Back-up Definition			Purpose
	N LAT	E LONG	Radial	DME	NAV	
1	2		3			4
BAVMI	45 42 13	008 24 28	276	26	SRN	SID LSZA
CALDO	45 54 33.2	008 51 50.9	017 ---	--- 6.5	MMP ILU	STAR LSZA
LUSIL	46 02 35	010 07 00	035	28.2	BEG	STAR LSZA
OMETO	45 44 12.0	008 02 34.0	276	42	SRN	SID LSZA
PINIK	45 52 26.8	008 50 55.9	017 ---	14.8 8.7	MMP ILU	STAR/SID LSZA, HLDG
SULUR	45 44 57	008 56 36	330	7	SRN	SID LSZA
ZA505	46 00 16	008 55 29	347	22	SRN	SID LSZA
ZA506	46 05 14	008 54 09	347	27	SRN	SID LSZA
ZA526	45 50 31	008 59 11	287 351	32.1 ---	BEG SRN	SID LSZA
ZA527	45 48 18	009 08 41	287 026	25.1 ---	BEG SRN	SID LSZA
ZA552	45 46 17	008 47 49	017	8	MMP	SID LSZA
ZA557	45 47 35.8	008 41 16.7	300	16.6	SRN	SID LSZA
ZA558	45 41 45.0	008 29 42.8	276	22.4	SRN	SID LSZA
ZA559	45 51 50.0	008 31 35.6	300	24.6	SRN	SID LSZA
ZA631	45 48 18	009 08 41	287 026	25.1 ---	BEG SRN	STAR LSZA
ZA632	45 50 31	008 59 11	287 351	32.1 ---	BEG SRN	STAR LSZA

(Tracks and radials calculated with VAR 2° East)

LSZA AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

LSZA AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

LSMP - PAYERNE

LSMP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSMP - PAYERNE

LSMP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 50 33 N / 006 54 49 E
2	**Direction and distance from the CITY**	3 km NW Payerne
3	**Elevation/Reference temperature**	*1465 ft AMSL* - 25.5°C
4	**Geoid undulation at AD ELEV PSN**	162.2 ft
5	**MAG VAR/Annual change**	2° E (2017.5) / 0° 10' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: swiss aeropole SA Aéropôle 132 CH-1530 Payerne Phone: +41 (0) 26 662 66 66 AFS: LSMPZTZX Email: airport@swissaeropole.com URL: www.swissaeropole.com Chief of civil aerodrome (CAC) Phone: +41 (0) 26 662 66 69
7	**Types of traffic permitted (IFR/VFR)**	IFR / VFR
8	**Remarks**	NIL

LSMP AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	MIL AD OPR HR: Time frame, excluding published exceptions: MON - SUN: 0500 - 2100 (0400 - 2000) CIV AD OPR HR: HX, but within following limits The aerodrome is open to civil flights after prior authorisation (PPR), at the following times only: MON - FRI: 0630 - 1900 (0530 - 1800) SAT: 0800 - 1100 (0700 - 1000) + 1230 - 1600 (1130 - 1500) SUN: CLSD HOL: see § 2.20 Exceptions with special authorisation, see §2.20 RMK: outside the periods of previously authorised flights, civil operation of the aerodrome is not continuously provided. The use of Payerne as an alternate aerodrome is prohibited. MON - FRI: No take-off between 1100 and 1215 (1000 and 1115). Take-offs may only be authorised by MIL OPS if they are delayed for technical, meteorological or ATC reasons. Civil flights outside MIL AD OPR HR: Flights taking place outside MIL AD OPR HR are subject to particular authorisation and activation deadlines and to billing surcharges.
2	**Customs and immigration**	CIV AD OPR HR Extra-Schengen flights possible Customs clearance for goods available.
3	**Health and sanitation**	MIL AD OPR HR
4	**AIS Briefing Office**	CIV AD OPR HR

5	**ATS Reporting Office (ARO)**	NIL
6	**MET Briefing Office**	NIL
7	**ATS**	HX
8	**Fuelling**	CIV AD OPR HR
9	**Handling**	Speedwings Handling Services: Phone: +41 (0) 26 662 66 60 Email: handling@speedwings-payerne.ch
10	**Security**	H24
11	**De-icing**	CIV AD OPR HR
12	**Remarks**	MIL AD with civil co-use Airfield, PPR

LSMP AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	NIL
2	**Fuel and oil types**	JET A-1 Mobile Jet Oil II & BP Turbo Oil 2380
3	**Fuelling facilities/capacity**	Truck 20'000 litres and tank truck 37'000 litres. Additional capacity upon prior request.
4	**De-icing facilities**	OCT 01 - APR 30: available Operator: Speedwings Handling Services De-icing fluids available: - Type I Clariant Safewing MP I 1938 ECO (80); - Type IV Clariant Safewing MP IV Launch De-icing trucks: JBT Tempest 400 On stand de-icing: 1 Clean Aircraft Concept as defined in ICAO Doc 9640 is applied; aircraft are de-iced according to the requirements of SAE AS6285. Airport Authority can intervene in case of non-adherence.
5	**Hangar space for visiting aircraft**	Heated 6600 m2 available for rent. MAX height 9m.
6	**Repair facilities for visiting aircraft**	AOG support available.
7	**Remarks**	Handling mandatory, self handling not allowed. Contact Speedwings Handling Services for more details. Crew lounge and 4 crew rooms available on site. Pushback up to 75t. Potable water, lavatory cart, belt loader and GPU available. VIP vehicles available on the apron. Ground Services Payerne Phone: +41 (0) 26 662 66 60 FREQ: 131.880 MHz (Speedwings FBO) RTF: SPEEDWINGS Email: handling@speedwings-payerne.ch

LSMP AD 2.5 PASSENGER FACILITIES

1	**Hotels**	In the vicinity
2	**Restaurants**	At AD and in the vicinity
3	**Transportation**	On request. Train station in the city
4	**Medical facilities**	First aid at AD during MIL AD OPR HR, hospital in Payerne city
5	**Bank and Post Office**	In Payerne city
6	**Tourist Office**	In the city, www.estavayer-payerne.ch
7	**Remarks**	NIL

1.1.2 STAR Description

1.1.2.1 STAR TO VALAD - RNAV (see chart LSMP AD 2.24.9 - 1)

DESIGNATOR	RWY 23 - RNAV		
	ROUTE		
	Lateral	Vertical	Remark
FRIBOURG 1 B (FRI 1B)	From FRI proceed to VALAD	Refer to chart	NIL

RNAV STAR FRI 1B						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
-	FRI	N	+6000	-	-	-
TF	VALAD	N	+5000	-	330° (331.8°T)	11.7

1.2 Approach procedures:

1.2.1 Procedure description of RNP Z RWY 23 (see chart LSMP AD 2.24.10 - 9)

From MP401						
Path terminator	Waypoint	Flyover	Altitude (ft)	Speed limit (kt)	Track	Distance (NM)
IF	MP401	N	-	-	-	-
TF	VALAD	N	+5000	-	227° (228.7°T)	2.5
TF	RW23	Y	-	-	227° (228.7°T)	8.9
TF	MP402	Y	-	185	227° (228.5°T)	4.7
CF	FRI	Y	+6000	185	093° (095.0°T)	15.8
CF	VALAD	Y	-	-	330° (332.0°T)	11.7

LSMP AD 2.23 ADDITIONAL INFORMATION

1. List of significant points (Terminal)

NAV point	COORD WGS84		Purpose
	N LAT	E LONG	
1	2		3
MP401	N 46 58 35.8	E 007 08 08.4	IAC LSMP
MP402	N 46 47 56.9	E 006 50 32.4	IAC LSMP
MP701	N 46 45 28.4	E 006 54 08.3	SID LSMP

LSMP AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

LSMP AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

LSZR - ST. GALLEN-ALTENRHEIN

LSZR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZR - ST. GALLEN-ALTENRHEIN

LSZR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	47 29 06 N 009 33 43 E RWY axis, 788 m from DTHR RWY 10
2	**Direction and distance from the CITY**	14 km ENE St. Gallen
3	**Elevation/Reference temperature**	*1306 ft AMSL* - 23.5º C
4	**Geoid undulation at AD ELEV PSN**	151.2 ft
5	**MAG VAR/Annual change**	2° E (2015.5) / 0°10' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Airport Altenrhein AG Flughafenstrasse 11 CH-9423 Altenrhein Phone: +41 (0) 71 858 51 65 AFS: LSZRYDYX SITA: ACHKKPE Email: groundservices@peoples.ch URL: http://www.peoples.ch
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZR AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	**VFR FLT**:		
		MON-FRI:	0600 - 1100 (0500 - 1000)	1230 - 1900 (1130 - 1800)
		SAT:	0700 - 1100 (0600 - 1000)	1230 - 1900 (1130 - 1800)
		SUN+HOL:	0900 - 1100 (0800 - 1000)	1230 - 1900 (1130 - 1800)
		IFR FLT:		
		MON-FRI (incl. HOL):	0530 - 1100 (0430 - 1000)	1230 - 2000 (1130 - 1900)
		SAT:	0630 - 1100 (0530 - 1000)	1230 - 1900 (1130 - 1800)
		SUN:	0900 - 1100 (0800 - 1000)	1230 - 1900 (1130 - 1800)
2	**Customs and immigration**	AD OPR HR		
3	**Health and sanitation**	Ambulance O/R Hospital: St. Gallen		
4	**AIS Briefing Office**	AD OPR HR		
5	**ATS Reporting Office (ARO)**	CTC ARO Zurich; Phone: +41(0) 43 931 61 61		
6	**MET Briefing Office**	AD OPR HR		
7	**ATS**	HX		
8	**Fuelling**	AD OPR HR		
9	**Handling**	AD OPR HR		
10	**Security**	Security screening / critical part O/R		
11	**De-icing**	AD OPR HR		

12	**Remarks**	Outside AD administration hours - OPS and services O/R Special permission is required for flights outside official opening hours and is possible during the following times: MON-FRI (incl. HOL): 0500 - 0530 (0400 - 0430) 1100 - 1230 (1000 - 1130) 2000 - 2100 (1900 - 2000) SAT: 0530 - 0630 (0430 - 0530) 1100 - 1230 (1000 - 1130) 1900 - 2100 (1800 - 2000) SUN: 0630 - 0900 (0530 - 0800) 1100 - 1230 (1000 - 1130) 1900 - 2000 (1800 - 1900) Request needs to be addressed to groundservices@peoples.ch / +41 (0) 71 858 51 65 Exceptions: Special permission possible 24/7 O/R for HOSP FLT, SAR FLT, FLT of the President of the Swiss Confederation and members of the Swiss Government. AD CLSD: New Years Day (JAN 01), Easter SUN, Whit SUN, Christmas Day (DEC 25). Grass RWY: Not available between NOV 01 - FEB 28

LSZR AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	NIL
2	**Fuel/oil types**	JET A1, AVGAS 100LL, Fuel Additive,
3	**Fuelling facilities/capacity**	Airport Altenrhein AG - Fuel stations: Jet A1 50000 litres, AVGAS 50000 litres, Jet A1 Fuel Truck 20100 litres, 900 litres/min.
4	**De-icing facilities**	OCT 01 - APR 30: De-icing guaranteed MAY 01 - SEP 30: De-icing O/R Operator: Airport Altenrhein AG De-icing fluids available: Type I Kilfrost DF Plus, Type II Kilfrost ABC K-Plus. Number of de-icing vehicles: 1 On stand de-icing: Apron stands 2 and 3. Clean Aircraft Concept as defined in ICAO Doc 9640 is applied; aircraft are de-iced according to the requirements of SAE AS6285. Airport Authority can intervene in case of non-adherence.
5	**Hangar space for visiting aircraft**	O/R Airport Altenrhein AG Phone: +41 (0) 71 858 51 65 Email: groundservices@peoples.ch
6	**Repair facilities for visiting aircraft**	For Airplane: AAL Ltd. Flughafenstrasse 11 9423 Altenrhein Phone: +41 (0) 71 858 51 85 Fax: +41 (0) 71 858 51 95 Email: info@aal.aero URL: http://www.aal.aero For Helicopter: Heli-Maintenance AG Rütiweg 1340 9423 Altenrhein Phone: +41 (0) 71 422 50 50 Email: info@helimaintenance.ch URL: http://www.heli-maintenance.ch

7	**Remarks**	Ground handling agent: Airport Altenrhein AG Phone: +41 (0) 71 858 51 65 AFS: LSZRYDYX Email: groundservices@peoples.ch FREQ: 131.505 MHz (St.Gallen Handling)

LSZR AD 2.5 PASSENGER FACILITIES

1	**Hotels**	Near the AD, Rorschach, St. Gallen
2	**Restaurants**	At AD, Altenrhein and vicinity
3	**Transportation**	Public buses, taxis and car rental agencies at AD
4	**Medical facilities**	Ambulance O/R Hospital: St.Gallen
5	**Bank and Post Office**	Cash machine: Airport Terminal Bank: Rorschach Post Office: Altenrhein, Rorschach
6	**Tourist Office**	Rorschach: Phone: +41 (0) 71 841 61 41 Email: touristinfo@rorschach.ch URL: http://www.st.gallen-bodensee.ch St. Gallen: Phone: +41 (0) 71 227 37 37 Email: info@st.gallen-bodensee.ch URL: http://www.st.gallen-bodensee.ch
7	**Remarks**	IATA travel agency at AD: High Life Reisen GmbH Phone: +41 (0) 71 886 60 88 Email: info@highlife.at URL: http://www.highlife.travel

LSZR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 2 Category 3 - 6: O/R 3 HR before ETA/ETD for scheduled traffic according to aircraft type
2	**Rescue equipment**	2 RFF vehicles and 1 RIV (Rapid Intervention Vehicle)
3	**Capability for removal of disabled aircraft**	Crane, lifting bags and hydraulic jacks available
4	**Remarks**	NIL

LSZR AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	3 snow ploughs, 3 jet sweepers, 1 RWY and Apron de-icer, 1 ACFT de-icer
2	**Clearance priorities**	RWY, TWY A/S/N, Apron
3	**Remarks**	RWY 10/28 de-iced / anti-iced with KFOR (potassium formate fluids) or with NAFO (sodium formate solids)

LSZR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Designation, surface and strength of Aprons**	Concrete, ASPH: - PCN 30/F/C/Y/T GRASS: 0.25 MPa
2	**Designation, width, surface and strength of Taxiways**	Widths: TWY A: 15.0 m TWY M: 7.5 m TWY N: 15.0 m on section parallel to APRON EAST, 10.0 m east of APRON EAST to Hangar M1, 7.5 m east of Hangar M1. TWY S: 15.0 m MAX wingspan: TWY M: 12.0 m TWY N: 24.0 m on section parallel to APRON EAST, 18.0 m east of APRON EAST to Hangar M1, 15.0 m east of Hangar M1 ASPH - PCN 30/F/C/Y/T
3	**ACL location and elevation**	not designated
4	**Location of VOR checkpoints**	NIL
5	**Location of INS checkpoints**	NIL
6	**Remarks**	NIL

LSZR AD 2.9 SURFACE MOVEMENT GUIDANCE, CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Taxi guide lines for parking stands on apron. Apron Safety Lines ACFT Stand identification markings Centre lines on TWY
2	**RWY/TWY markings and LGT**	RWY designation, DTHR, aiming point, touchdown zone and centre line, TWY centre lines, RWY holding and intermediate holding position markings, enhanced TWY centre line markings and mandatory instruction signs at all intersections with RWY. Information signs on the movement area LGT: THR, simple touchdown zone, RGL, RWY edges, RWY end, TWY edges A+S (partly)
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	NIL

LSZR AD 2.10 AERODROME OBSTACLES

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 (1)	Pole	*1307*	47 29 05 N 009 34 14 E	Pole LGTD	*1323*	47 29 11 N 009 32 54 E	B0719/06
AOC 10 (2)	Building	*1314*	47 29 00 N 009 34 14 E	Antenna LGTD	*1342*	47 29 06 N 009 33 16 E	B0167/04
AOC 10 (3)	Antenna	*1322*	47 29 00 N 009 34 14 E	Pole marked/LGTD	*1339*	47 29 01 N 009 34 00 E	B1310/13
AOC 10 (4)	Tree/Trees	*1328*	47 29 05 N 009 34 25 E	Control tower LGTD	*1360*	47 29 16 N 009 33 10 E	B0718/06
AOC 10 (5)	Tree/Trees	*1331*	47 28 56 N 009 34 30 E	Crane/Cranes marked/LGTD	*1409*	47 29 07 N 009 32 42 E	B0160/22
AOC 10 (6)	Tree/Trees	*1337*	47 28 57 N 009 34 30 E	Crane/Cranes marked/LGTD	*1384*	47 29 11 N 009 34 02 E	B0377/22
AOC 10 (7)	Tree/Trees	*1402*	47 29 05 N 009 34 37 E	Pole LGTD	*1315*	47 29 06 N 009 33 20 E	B0097/09
AOC 10 (8)	Tree/Trees	*1413*	47 29 04 N 009 34 47 E				
AOC 10 (9)	Tree/Trees	*1414*	47 29 02 N 009 34 47 E				
AOC 10 (10)	Tree/Trees	*1425*	47 28 53 N 009 34 55 E				
AOC 28 (1)	Pole	*1308*	47 29 12 N 009 32 59 E				
AOC 28 (2)	Tree/Trees	*1326*	47 29 07 N 009 32 58 E				
AOC 28 (3)	Tree/Trees	*1327*	47 29 08 N 009 32 57 E				
AOC 28 (4)	Pole	*1336*	47 29 07 N 009 32 55 E				
AOC 28 (5)	Pole	*1339*	47 29 08 N 009 32 55 E				
AOC 28 (6)	Antenna	*1347*	47 29 08 N 009 32 49 E				
AOC 28 (7)	Antenna	*1349*	47 29 08 N 009 32 48 E				
AOC 28 (8)	Building	*1350*	47 29 16 N 009 32 43 E				
AOC 28 (9)	Tree/Trees	*1367*	47 29 08 N 009 32 40 E				
Refer also to LSZR AOC 10/28, LSZR AD 2.24.4 - 1 Number in brackets is equivalent to identification number on AOC							

LSZR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	MeteoSwiss
2	**Hours of service**	HX
3	**Office responsible for TAF preparation** **Periods of validity**	MeteoSwiss, Zurich 9 hours
4	**Type of landing forecast**	NIL
5	**Briefing/consultation provided**	Self Briefing Service (www.skybriefing.com), WLAN Internet
6	**Flight documentation** **Language(s) used**	Digital and hard copy En, Ge, Fr
7	**Charts and other information available for briefing or consultation**	Self Briefing Service (www.skybriefing.com), WLAN Internet
8	**Supplementary equipment available for providing information**	WLAN Internet
9	**ATS units provided with information**	St. Gallen TWR
10	**Additional information (limitation of service, etc.)**	Ground Services +41 (0) 71 858 51 65 and WLAN Internet

LSZR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR COORD	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
10	099° GEO 097° MAG	1455 x 30	PCN 30/F/C/Y/T ASPH	47 29 09.57N 009 33 05.74E	*1306 ft*	Refer to: LSZR AOC RWY 10/28
28	279° GEO 277° MAG			47 29 03.04N 009 34 08.31E	*1306 ft*	
10 GRASS	099° GEO 097° MAG	810 x 20	0.25 MPa GRASS	NIL	NIL	NIL
28 GRASS	279° GEO 277° MAG					

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
1	8	9	10	11	12
10	NIL	60 x 150	1575 x 80	NIL	RWY Strip and RESA dimensions according to non-instrument RWY criteria. RESA: 30 x 60 m Grooved between DTHR (1325 m)
28		60 x 150			Non-instrument RWY RESA: 30 x 60 m Grooved between DTHR (1325 m)
10 GRASS	NIL	NIL	870 x 60	N/A	NIL
28 GRASS					

LSZR AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
10	1455	1515	1455	1380	Public roads behind RWY (outside airport area)
28	1455	1515	1455	1400	Public roads behind RWY (outside airport area)
10 GRASS	810	810	810	810	NIL
28 GRASS	810	810	810	810	NIL

LSZR AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	ALS Type, length, intensity	THR LGT Colour, intensity WBAR	VASIS (MEHT)	RTZL LEN, INTST	RCLL Length, spacing, colour, intensity	REDL Length, spacing, colour, intensity	RENL Colour	SWY LGT Length, colour	RMK
1	2	3	4	5	6	7	8	9	10
10	RLLS Seq. FLG LGT, 300 m, W, LIH	RTHL G, LIH WBAR, RTIL FLG W	PAPI 4.0° L+R (7.0 m)	Simple TZL* 473 m FM THR 10, W, LIH	NIL	75 m, 50 m, R, LIH; 930 m, 50 m, W, LIH; 450 m, 50 m, Y, LIH	R	NIL	First RLLS LGT is 530 m FM THR10
28	NIL	RTHL G, LIH WBAR	PAPI 4.0° L (8.5 m)	Simple TZL*, 473 m FM THR 28, W, LIH	NIL	55 m, 50 m, R, LIH; 950 m, 50 m, W, LIH; 450 m, 50 m, Y,LIH	R	NIL	NIL

* The purpose of simple touchdown zone lights is to provide pilots with enhanced situational awareness in all visibility conditions and to help enable pilots to decide whether to commence a go-around if the aircraft has not landed by a certain point on the runway.

LSZR 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**	Anemometer: RWY 10: 220 m E of THR 10, LGTD RWY 28: 140 m W of THR 28, LGTD
3	**TWY edge and centre line lighting**	Edge: LIL, B; TWY A and S partly, Turn pads 10/28 Centre line: NIL RGL: A,S,N
4	**Secondary power supply/switch-over time**	Yes / max 15s; DEP VIS less than 800m < 1s
5	**Remarks**	Apron flood lights. Obstacles marked and LGTD (partly)

LSZR AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	TLOF: Main Apron: 47 29 13.87N / 009 33 10.73E TLOF: Hangar B2: 47 29 13.74N / 009 33 44.68E
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	TLOF: Main Apron: 398 m / *1306 ft* TLOF: Hangar B2: 398 m / *1306 ft*
3	**TLOF and FATO area dimensions, surface, strength, marking**	TLOF: Main Apron: TLOF stand MAX OAL or OAW 15.6 m, ASPH, marked TLOF: Hangar B2: TLOF stand MAX OAL or OAW 13.0 m, ASPH, marked
4	**True BRG of FATO**	RWY 10: GRASS; 099° RWY 28: GRASS; 279°
5	**Declared distance available**	See: LSZR AD 2.13 for RWY 10-28 GRASS
6	**APP and FATO lighting**	NIL
7	**Remarks**	NIL

LSZR AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	**St. Gallen CTR** 47 33 08 N 009 31 28 E - FIR SWITZERLAND/FIR MUNICH - 47 32 31 N 009 33 16 E - German/Austrian border - 47 31 31 N 009 37 50 E - arc of circle radius 1.90 NM on 47 29 40 N 009 37 08 E - 47 27 46 N 009 37 13 E - 47 28 40 N 009 23 09 E - 47 31 13 N 009 23 36 E - 47 33 29 N 009 26 51 E - 47 33 08 N 009 31 28 E
2	**Vertical limits**	*5500 ft AMSL (1700 m)*
3	**Airspace classification**	D
4	**ATS unit call sign Language(s)**	En; En and Ge for Non-Commercial VFR traffic.
5	**Transition altitude**	*5000 ft AMSL*
6	**Remarks**	ACT: HX - ATIS (monitoring compulsory)

LSZR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
ATIS		123.780 MHz	H24	Phone Service: +41 (0) 71 858 51 66
APP	ALPS RADAR	119.925 MHz	H24	Language: En; Ge
TWR	St. Gallen Tower	135.430 MHz 119.700 MHz	HX	QDM AVBL O/R ALTN FREQ Language: En; En and Ge for Non-Commercial VFR traffic.
		121.500 MHz		EMERG
GND	St. Gallen Ground	121.805 MHz		According to ATIS INFO Language: En; En and Ge for Non-Commercial VFR traffic.

LSZR 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
ILS 10-LOC CAT I	IAL	108.75 MHz	H24	47 29 01.43N 009 34 14.96E		LOC PSN: 146 m FM THR 28. **RWY 10:** LOC course 097° MAG. LOC axis offset 0.78° N. Front course sector width 5°. Reduced ICAO coverage: at 10 NM; +/- 15° from CL above *3600 ft AMSL.* Linearly raising to: at 10 NM; +/- 35° from CL above *4500 ft AMSL.* at 18 NM; +/- 10° from CL above *3600 ft AMSL.*
GP 10		330.35 MHz	H24	47 29 05.94N 009 33 15.53E		GP Angle 4°. PSN: 220 m FM THR 10. GP HGT THR 10: 48 ft / 14.6 m.
DME 10	IAL	24Y	H24	47 29 06.07N 009 33 15.56E	*1333 ft*	DME Co-located with GP. Zero range at DME station. Reduced coverage: at 10 NM; +/- 15° from CL above *3600 ft AMSL.* Linearly raising to: at 10 NM; +/- 35° from CL above *4500 ft AMSL.* at 18 NM; +/- 10° from CL above *3600 ft AMSL.*

LSZR AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions and remarks

1.1 APCH

NIL

1.2 DEP

- Start-up CLR: IFR, SVFR and NVFR FLTs on FREQ provided by ATIS

FLT of less than 20 MIN DUR are only admitted at the following times:

MON-FRI:	0700 - 1100, 1230 - 1730 (0600 - 1000, 1130 - 1630)
SAT:	0700 - 1100 (0600 - 1000)

Additionally, the above mentioned FLTs are **prohibited** on the following Swiss and/or Austrian HOL: JAN 06, Good FRI, Easter MON, MAY 01, Ascension Day, Whit MON, Corpus Christi, National HOL (AUG 01), Assumption Day (AUG 15), Austrian National HOL (OCT 26), All Saint's Day (NOV 01), DEC 08 and DEC 26.
PPR for non-Turbofan equipped Jet ACFT (in accordance with ICAO Annex 16, Volume1, Chapter 2)

1.3 RMK

No simultaneous use of ASPH RWY and grass RWY.

1.4 SAFETY RULES

Use of high-visibility jacket which complies with EN 471 standard class 2 or 3 is mandatory for Flight Crews and Aircraft Technicians on Apron West and Apron East. In all other areas of the aerodrome the use of high visibility jackets is recommended.

2. Transponder Mandatory Zone (TMZ NE)

For Airspace information see ENR 2.2.5.

LSZR AD 2.21 NOISE ABATEMENT PROCEDURES

1. Reverse thrust

For deceleration, it is recommended that the entire RWY LEN AVBL is used; Reverse thrust shall be used for safety or operational reasons only.

2. Taxi and holding

Aeroplanes shall be operated with MNM noise level on ground.

3. Meteo condition

If Meteo condition permits, due to noise restrictions expect RWY 10 for landing and RWY 28 for departure.

LSZR AD 2.23 ADDITIONAL INFORMATION

1. List of significant points

NAV point	COORD WGS84		Purpose
	LAT	LONG	
1	2		3
AMRIS	N 47 30 17.2	E 009 23 05.2	STAR LSZR
BEMKI	N 47 33 33.8	E 010 18 20.1	SID LSZR
ENIBI	N 47 40 52.4	E 009 32 16.0	SID/STAR LSZR
EVTAT	N 47 34 28.9	E 010 15 19.9	SID LSZR
LAGOS	N 47 32 28.1	E 009 31 53.4	STAR LSZR
OKPUS	N 47 40 03.4	E 009 56 58.6	SID LSZR
TUSRO	N 47 38 55.6	E 010 00 43.1	SID LSZR
XASIS	N 47 35 49.6	E 010 10 55.7	SID LSZR
ZR500	N 47 34 56.0	E 009 25 20.8	SID LSZR
ZR501	N 47 36 15.1	E 009 32 03.4	SID LSZR
ZR502	N 47 36 12.1	E 009 37 36.2	SID LSZR
ZR612	N 47 38 54.0	E 009 57 22.0	STAR LSZR
ZR675	N 47 26 02.0	E 009 10 51.0	STAR LSZR
ZR685	N 47 31 56.2	E 009 08 14.2	STAR LSZR
ZR695	N 47 31 05.9	E 009 15 48.5	IAC LSZR
ZR700	N 47 30 33.8	E 009 20 36.7	IAC LSZR
ZR701	N 47 29 12.4	E 009 32 38.2	IAC LSZR
ZR702	N 47 28 53.3	E 009 35 26.4	IAC LSZR
ZR703	N 47 31 09.4	E 009 23 35.7	IAC LSZR

2. Classification of the Instrument Landing System (ILS)

The ILS on RWY 10 is classified as an ILS Category I with “NIL facilities”, in accordance with JAR-OPS 1 Subpart E.
Due to the following facts, a classification as ILS Category I with ”full facilities” in accordance with JAR-OPS 1 Subpart E, is not possible:

a. No ALS is AVBL;
b. The APCH angle is steeper (4°) than the ICAO standard (MAX 3.5°);
c. The RWY THR crossing HGT is less than 50 ft.

LSZR AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

LSZR AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

LSZS - SAMEDAN

LSZS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSZS - SAMEDAN

LSZS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 32 04 N 009 53 03 E RWY midpoint
2	**Direction and distance from the CITY**	1 km E Samedan
3	**Elevation/Reference temperature**	*5602 ft AMSL* - 17.8° C
4	**Geoid undulation at AD ELEV PSN**	158.7 ft
5	**MAG VAR/Annual change**	3° E (2019.5) / 0°10' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Engadin Airport Plazza Aviatica 2 CH-7503 **Samedan** Phone: +41 (0) 81 851 08 51 Fax: +41 (0) 81 851 08 59 AFS: AFTN: LSZSYDYX LSZSZPZX, LSZSZTZX for PLN Email: info@engadin-airport.ch URL: http://www.engadin-airport.ch/
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZS AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	0700 (0600) - HRH, but not later than 1800 (1700) HRH = Day and night limits. GEN 2.7
2	**Customs and immigration**	AD OPR HR
3	**Health and sanitation**	Ambulance O/R; hospital in Samedan
4	**AIS Briefing Office**	As AD administration
5	**ATS Reporting Office (ARO)**	AD OPR HR
6	**MET Briefing Office**	AD OPR HR
7	**ATS**	AD OPR HR
8	**Fuelling**	AD OPR HR
9	**Handling**	AD OPR HR
10	**Security**	NIL
11	**De-icing**	AD OPR HR
12	**Remarks**	NIL

LSZS AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities:**	NIL
2	**Fuel/oil types**	JET A1, AVGAS 100LL, no defuelling available
3	**Fuelling facilities/capacity**	Fuel stations: Jet A1 23 000 litres, AVGAS 20 000 litres Trucks: Jet A1 23 000 litres, 10 000 litres
4	**De-icing facilities**	NOV 01 - APR 30: De-icing assured De-icing fluids available: Type I Clariant Safewing MP I LFD 80 "Aircraft are de-iced according to the requirements of SAE AS6285." Clean Aircraft Concept as defined in ICAO Doc 9640 is applied; Airport Authority can intervene in case of non-adherence.
5	**Hangar space for visiting aircraft**	Limited, by prior arrangement only Contact Engadin Airport AG: Phone: +41 (0) 81 851 08 51 Fax: +41 (0) 81 851 08 59 Email: info@engadin-airport.ch URL: http://www.engadin-airport.ch/
6	**Repair facilities for visiting aircraft**	Not AVBL
7	**Remarks**	Ground handling agent for general aviation Engadin Airport AG Phone: +41 (0) 81 851 08 48 Fax: +41 (0) 81 851 08 50 Email: handling@engadin-airport.ch URL: http://www.engadin-airport.ch/

LSZS AD 2.5 PASSENGER FACILITIES

1	**Hotels**	Samedan, St. Moritz, Engadin
2	**Restaurants**	At AD, Samedan and VCY
3	**Transportation**	Taxis at AD
4	**Medical facilities**	First aid at AD, Ambulance O/R; Hospital in Samedan
5	**Bank and Post Office**	Samedan, St. Moritz
6	**Tourist Office**	Samedan Phone: +41 (0) 81 851 00 60 Fax: +41 (0) 81 851 00 66 St. Moritz Phone: +41 (0) 81 837 33 33 Fax: +41 (0) 81 837 33 77
7	**Remarks**	NIL

LSZS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 2 Category 3 - 4: O/R FLT 3 HR before ETA/ETD Category 5 - 6: O/R
2	**Rescue equipment**	2 fire engines
3	**Capability for removal of disabled aircraft**	NIL
4	**Remarks**	NIL

LSZS AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	3 wheel loaders, 4 snow ploughs, 2 snow sweeper, 1 de-icing vehicle
2	**Clearance priorities**	RWY / Apron / TWY
3	**Remarks**	Check of ACT SNOWTAM during winter period is essential

LSZS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Designation, surface and strength of Aprons**	CONC and ASPH / PCN 30 F/C/X/U
2	**Designation, width, surface and strength of Taxiways**	10 m / CONC and ASPH / PCN 30 F/C/X/U
3	**ACL location and elevation**	NIL
4	**Location of VOR checkpoints**	NIL
5	**Location of INS checkpoints**	NIL
6	**Remarks**	NIL

LSZS AD 2.9 SURFACE MOVEMENT GUIDANCE, CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	NIL
2	**RWY/TWY markings and LGT**	RCL and THR marked, not lighted. Holding positions RWY 03/21, intermediate holding positions and TWY centre lines marked, not lighted.
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	NIL

LSZS AD 2.10 AERODROME OBSTACLES

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 03 (1)	Bridge	*5584*	46 32 32 N 009 53 21 E	Anemometer LGTD	*5627*	46 31 35 N 009 52 46 E	B0743/06
AOC 03 (2)	Pole	*5588*	46 32 33 N 009 53 25 E	Anemometer marked/LGTD	*5611*	46 32 29 N 009 53 17 E	B0914/07
AOC 03 (3)	Pole	*5589*	46 32 33 N 009 53 28 E	Aerial railway	306 AGL	46 30 29 N 009 49 06 E 46 30 20 N 009 47 16 E	B0339/02
AOC 03 (4)	Pole	*5597*	46 32 32 N 009 53 30 E	Power line	70 m AGL	46 31 11 N 009 50 54 E 46 31 08 N 009 50 54 E	B0100/06
AOC 03 (5)	Tree/Trees	*5598*	46 32 39 N 009 53 35 E	Antenna	*5655*	46 31 48 N 009 52 43 E	B1213/17
AOC 03 (6)	Tree/Trees	*5607*	46 32 39 N 009 53 36 E				
AOC 03 (7)	Tree/Trees	*5726*	46 33 54 N 009 54 10 E				
AOC 03 (8)	Tree/Trees	*6026*	46 34 07 N 009 54 21 E				
AOC 03 (9)	Power line	*6128*	46 34 19 N 009 54 36 E				
AOC 03 (10)	Tree/Trees	*6252*	46 35 09 N 009 55 37 E				
AOC 03 (11)	Tree/Trees	*6377*	46 35 10 N 009 55 39 E				
AOC 21 (1)	Torch	*5616*	46 31 33 N 009 52 36 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
AOC 21 (2)	Pole	*5638*	46 31 28 N 009 52 27 E				
AOC 21 (3)	Pole	*5641*	46 31 27 N 009 52 28 E				
AOC 21 (4)	Pole	*5648*	46 31 26 N 009 52 28 E				
AOC 21 (5)	Tree/Trees	*5667*	46 31 12 N 009 52 20 E				
AOC 21 (6)	Tree/Trees	*5707*	46 31 11 N 009 52 21 E				
AOC 21 (7)	Tree/Trees	*5712*	46 31 10 N 009 52 19 E				
AOC 21 (8)	Tree/Trees	*5734*	46 31 11 N 009 52 17 E				
AOC 21 (9)	Tree/Trees	*5746*	46 31 01 N 009 52 19 E				
AOC 21 (10)	Tree/Trees	*5862*	46 30 58 N 009 52 18 E				
AOC 21 (11)	Tree/Trees	*5906*	46 30 29 N 009 51 53 E				
AOC 21 (12)	Tree/Trees	*6374*	46 30 00 N 009 51 33 E				
AOC 21 (13)	Tree/Trees	*6461*	46 29 45 N 009 49 59 E				
AOC 21 (14)	Tree/Trees	*6628*	46 29 41 N 009 49 52 E				
AOC 21 (15)	Cable railway	*6846*	46 29 30 N 009 49 30 E				
Refer also to AOC 03, LSZS AD 2.24.4 - 1 AOC 21, LSZS AD 2.24.4 - 3							

LSZS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	MeteoSwiss
2	**Hours of service**	H24
3	**Office responsible for TAF preparation** **Periods of validity**	MeteoSwiss, Zurich 9 hours
4	**Type of landing forecast**	NIL
5	**Briefing/consultation provided**	Self Briefing Service (www.skybriefing.com)
6	**Flight documentation** **Language(s) used**	Digital and hard copy En, Ge, Fr
7	**Charts and other information available for briefing or consultation**	All area FCST charts AVBL worldwide
8	**Supplementary equipment available for providing information**	do.
9	**ATS units provided with information**	Samedan TWR
10	**Additional information (limitation of service, etc.)**	Phone: Weather briefing: 0900 162 737 (Ge); accessible within Switzerland

LSZS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY and SWY	THR COORD	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
03	029° GEO 026° MAG	1840 x 40	PCN 30 F/C/X/U	46 31 37.28N 009 52 41.13E	*5602 ft*	refer to: LSZS AOC RWY 03/21
21	209° GEO 206° MAG			46 32 26.27N 009 53 20.85E	*5573 ft*	

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
1	8	9	10	11	12
03	NIL	NIL	1960 x 80	NIL	Non-instrument RWY
21					Non-instrument RWY

LSZS AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
03	1840 m	1840 m	1840 m	1840 m	NIL
21	1840 m	1840 m	1840 m	1730 m	NIL

LSZS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	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
03	NIL	NIL	PAPI 4.49°, R, (13.67 m)	NIL	NIL	NIL	NIL	NIL	1)
21	NIL	NIL	PAPI 4.4°, L, (8.27 m)	NIL	NIL	NIL	NIL	NIL	2)

1) PAPI 03 light beam offset 5° west from runway axis. ICAO obstacle protection surface penetrated by a hill between ZS705 and THR 03.
2) PAPI 21 light beam offset 5° east from runway axis.

LSZS 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**	NIL
3	**TWY edge and centre line lighting**	NIL
4	**Secondary power supply/switch-over time**	AVBL / < 1sec
5	**Remarks**	NIL

LSZS AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	FATO (aiming point): 46 31 52.98 N 009 52 53.88 E
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	*5600 ft / 1707 m*
3	**TLOF and FATO area dimensions, surface, strength, marking**	**HEL with overall LEN <13 m or an overall WID <11 m** TLOF: Whole year 5 HEL CONC/ASPH, 5000 kg, white marked circles with a diameter of 6.5 m; Winter only: 7 additional HEL stands, SNOW, 5000 kg, blue marked circles with a diameter of 6.5 m. FATO: 40 x 40 m, ASPH, 5000 kg, aiming point marked on RWY 03/21. **HEL with overall LEN >13 m or an overall WID >11 m** TLOF: Parking on main apron with marshaller FATO: 1840 x 40 m, ASPH, 5000 kg, aiming point marked on RWY 03/21.
4	**True BRG of FATO**	029° - 209°
5	**Declared distance available**	REF: VFR Manual Samedan HEL AD INFO, § 10
6	**APP and FATO lighting**	NIL
7	**Remarks**	REF: VFR Manual Samedan HEL AD INFO 7 HEL with overall LEN >13 m or an overall WID >11 m use VAC ARRIVAL and VAC DEPARTURE for operations on paved RWY. PPR TEL +41 (0) 81 851 08 51 PPR FAX +41 (0) 81 851 08 59 Email: handling@engadin-airport.ch - contact AFISO (AD Flight Information Service Officer) for start-up - report crossing of IFR APCH and DEP route to AFIS

LSZS AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	**FIZ SAMEDAN** 46 34 46 N / 009 53 01 E - Arc of circle clockwise with radius 2.70 NM, centred on 46 32 04 N / 009 53 02 E - 46 33 23 N / 009 56 27 E - 46 32 35 N / 009 55 59 E - 46 29 23 N / 009 52 36 E - Arc of circle clockwise with radius 2.70 NM, centred on 46 32 04 N / 009 53 02 E - 46 31 15 N / 009 49 18 E - 46 34 46 N / 009 53 01 E
2	**Vertical limits**	*10'000 ft AMSL (3050 m)*
3	**Airspace classification**	G (at and below 2000 ft AGL); E (above 2000 ft AGL)
4	**ATS unit call sign Language(s)**	AFIS: En; En and Ge for Non-Commercial VFR traffic.
5	**Transition altitude**	*16'000 ft AMSL*
6	**Remarks**	NIL

LSZS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	**2**	**3**	**4**	**5**
AFIS	Samedan Info	135.325 MHz	HO	Language: En; En and Ge for Non-Commercial VFR traffic.
ATIS		136.600 MHz	HO	Phone Service +41 (0) 81 834 93 24
CLR DEL	Samedan Delivery	121.880 MHz	HX	Start-up clearance. Check status on ATIS

LSZS 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**
NIL						

LSZS AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions and remarks

Aerodrome in mountainous area: familiarisation mandatory. Pilots must be qualified to operate at LSZS and fulfill the requirements mentioned in “Betriebsreglement” Annex 5 (See http://www.engadin-airport.ch/Betriebsreglement.70.0.html)

RWY CLSD for fixed wing ACFT with APCH Category A on VFR procedures if VIS BLW 2000 m and/or ceiling below 1000 ft AGL.

RWY CLSD for fixed wing ACFT with APCH Category B and higher on VFR procedures if VIS BLW 5 km and/or ceiling BLW 2200 ft AGL.

RWY CLSD for arriving fixed wing ACFT on IFR procedures if VIS BLW 5 km and/or ceiling BLW 2200 ft AGL.

RWY CLSD for departing fixed wing ACFT on IFR procedures according AD 2.22 § 1.5 (TKOF Minima).

15 OCT - 15 APR It is essential to enquire about RWY conditions (SNOWTAM, ATIS or TEL).

Limited aprons
08 DEC - 14 APR
Limited aprons during winter period for general aviation ACFT up to 4 tonnes MTOM:
Apron is mostly reserved for ACFT of commercial air TFC, as well as for general aviation ACFT over 4 tonnes MTOM. ACFT up to 4 tonnes MTOM will be placed on the limited AVBL frozen SN PRKG. Ground time more than a quick turnaround cannot be guaranteed. For longer ground time, it is urgently recommended to enquire about expected PRKG possibilities with Samedan AP Authority one day before planned FLT.

Corresponding enquiries have to contain:
- Applicant
- Date of ARR and DEP
- Call sign
- ACFT type
- ETA LSZS UTC
- EOBT LSZS UTC

and shall be addressed to:

Email: handling@engadin-airport.ch
Phone: +41 (0) 81 851 08 51

Modifications and cancellations of already coordinated FLT shall be immediately notified.

CTN GLD ACT: **MAY - OCT**
CTN: Cars moving W of RWY 03/21.

Circuit and local flights of less than 20 MIN duration, ground running of engines, helicopter test and training flights daily between **1100 - 1300 (1000 - 1200)** and on SUN/HOL are prohibited.

2. Procedure for taxiing ACFT

Taxi with minimum possible engine power due to jet blast on tarmac.

LSZS AD 2.21 NOISE ABATEMENT PROCEDURES

1. Jet and turbo-prop ACFT

For deceleration, it is recommended that the entire RWY LEN AVBL is used. Reverse thrust shall be used for safety or operational reasons only.

APU shall be started 30 MIN before EOBT, at the earliest, and shall be shut off 15 MIN after the RCH parking PSN at the latest.

2. Propeller aeroplanes

Aircraft of the noise category A (FAL 3-1 APP B1-B7) are generally not allowed. Exceptions are subject to authorization.

LSZS AD 2.22 FLIGHT PROCEDURES

1. Special regulations for IFR approach and departure

1.1 IFR Procedures General

The use of IFR APCH or DEP procedures in LSZS is limited to pilots, operators and ACFT fulfilling the AP Qualifications in accordance with § 1.4. and the specific requirements below.
Availability of the IFR Procedures depending on the military activity in the temporary reserved areas (TRA) REF: ENR 5.2
The non-availability of the ATS Route can be checked under **"European AUP/UUP"** on
URL: https://www.public.nm.eurocontrol.int/PUBPORTAL/

The availability of the IFR Procedures can also be suspended by good weather conditions due to high traffic density.
Check NOTAM about IFR-status and for further information the pilot briefing on
URL: http://www.engadin-airport.ch/Briefings.417.0.html

The published altitudes of the IFR procedures are not corrected for any pressure and temperature errors.
The flight crew is responsible for these corrections. The altimeter error may be significant in extremely cold temperatures and at high altitudes.
The following table indicates the minimum correction value to be applied to the flight altitude in relation to the aerodrome temperature.

Aerodrome Temperature LSZS							
Altitude ft	**0° C**	**-5° C**	**-10° C**	**-15° C**	**-20° C**	**-25° C**	**-30° C**
16000	+153 ft	+348 ft	+543 ft	+738 ft	+933 ft	+1128 ft	+1323 ft
14000	+122 ft	+279 ft	+435 ft	+591 ft	+748 ft	+904 ft	+1060 ft
13000	+107 ft	+245 ft	+382 ft	+519 ft	+656 ft	+793 ft	+931 ft
12700	+103 ft	+234 ft	+366 ft	+497 ft	+629 ft	+760 ft	+892 ft
12400	+99 ft	+224 ft	+350 ft	+476 ft	+602 ft	+727 ft	+853 ft
11800	+90 ft	+204 ft	+319 ft	+433 ft	+547 ft	+662 ft	+776 ft
11400	+84 ft	+191 ft	+298 ft	+404 ft	+511 ft	+618 ft	+725 ft
10600	+72 ft	+164 ft	+256 ft	+348 ft	+440 ft	+531 ft	+623 ft
9500	+56 ft	+127 ft	+199 ft	+270 ft	+342 ft	+413 ft	+484 ft
8680	+44 ft	+100 ft	+157 ft	+213 ft	+269 ft	+325 ft	+381 ft

The IFR procedures are partly within airspace class E and G. Watch out for VFR traffic.

1.2 IFR Departures

Any departing ACFT must comply with the relevant procedures published on the SID charts. Due to high terrain, any non-adherence to the published PDG will result in an infringement of the minimum obstacle clearance.
Contingency procedures (e.g. for OEI operations) must be provided by the operator and must be available to the pilot.
(see chart LSZS AD 2.24.7 - 1)

	RWY 03 - HIGH PERFORMANCE RNAV 1			
	ROUTE			
DESIGNATOR	**Lateral**	**Vertical**	**Contact**	**Remark**
RONAG 1E PDG 16.6% to *10200ft*	Proceed via ZS500, ZS711, ZS710 to RONAG. Enter the RONAG holding pattern. MAX IAS 210 kt to RONAG.	Climb to 16000ft. Cross RONAG at 14000ft or above. Shuttle climb as required to MEA.	When instructed contact ALPS RADAR 119.225	NIL

Close-in obstacles right of track up to *5715 ft* shortly after end of RWY 03.

(see chart LSZS AD 2.24.7 - 1)

RNAV 1 SID RONAG 1E						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	DER03	Y	-	-	026° (029.2°T)	-
TF	ZS500	Y	-	-	030° (033.3°T)	5.9
DF	ZS711	N	-	-	-	-
TF	ZS710	N	-	-	041° (044.4°T)	5.4
TF	RONAG	N	+14000	210	053° (056.3°T)	5.3

(see chart LSZS AD 2.24.7 - 3)

	RWY 03 - HIGH PERFORMANCE RNAV 1 VISUAL			
	ROUTE			
DESIGNATOR	**Lateral**	**Vertical**	**Contact**	**Remark**
RONAG 1V Set your VISUAL climb rate as required to avoid obstacles, but not below 10% ~ 610 ft/NM. At *10000 ft* continue climb to *10500 ft* with MNM PDG of 10%.	Proceed via ZS501, ZS711, ZS710 to RONAG. Enter the RONAG holding pattern. MAX IAS 180 kt to ZS711, MAX IAS 210 kt to RONAG.	Climb to 16000ft. Cross RONAG at 14000ft or above. Shuttle climb as required to MEA.	When instructed contact ALPS RADAR 119.225	Maintain visual ground contact to 10000ft.

Close-in obstacles right of track up to *5715 ft* shortly after end of RWY 03.

(see chart LSZS AD 2.24.7 - 3)

RNAV 1 SID RONAG 1V						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	DER03	Y	-	-	026° (029.2°T)	-
TF	ZS501	Y	-	-	030° (033.3°T)	2.4
TF	ZS711	N	-	180	043° (046.2°T)	7.9
TF	ZS710	N	-	-	041° (044.4°T)	5.4
TF	RONAG	N	+14000	210	053° (056.3°T)	5.3

(see chart LSZS AD 2.24.7 - 5)

	RWY 21 - HIGH PERFORMANCE RNAV 1			
	ROUTE			
DESIGNATOR	**Lateral**	**Vertical**	**Contact**	**Remark**
PELAD 1W PDG 15.0% to *10700ft*	Proceed via ZS510, ZS511 to PELAD. Enter the PELAD holding pattern. MAX IAS 210 kt to PELAD.	Climb to 16000ft. Cross PELAD at 16000ft or above.	When instructed contact ALPS RADAR 119.225	NIL

Close-in obstacles right of track up to *5630 ft* shortly after end of RWY 21.

(see chart LSZS AD 2.24.7 - 5)

RNAV 1 SID PELAD 1W						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	DER21	Y	-	-	206° (209.2°T)	-
TF	ZS510	Y	-	-	216° (219.1°T)	10.3
DF	ZS511	N	-	-	-	-
TF	PELAD	N	+16000	210	036° (039.0°T)	10.3

(see chart LSZS AD 2.24.7 - 7)

	RWY 21 - HIGH PERFORMANCE RNAV 1 VISUAL			
	ROUTE			
DESIGNATOR	**Lateral**	**Vertical**	**Contact**	**Remark**
PELAD 1V Set your VISUAL climb rate as required to avoid obstacles, but not below 10% ~ 610 ft/NM. At *10600 ft* continue climb to *11500ft* with MNM PDG of 10%.	Proceed via ZS510, ZS511 to PELAD. Enter the PELAD holding pattern. MAX IAS 210 kt to PELAD.	Climb to 16000ft. Cross PELAD at 16000ft or above.	When instructed contact ALPS RADAR 119.225	Maintain visual ground contact to 10600ft.

Close-in obstacles right of track up to *5630 ft* shortly after end of RWY 21.

(see chart LSZS AD 2.24.7 - 7)

RNAV 1 SID PELAD 1V						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
DF	DER21	Y	-	-	206° (209.2°T)	-
TF	ZS510	Y	-	-	216° (219.1°T)	10.3
DF	ZS511	N	-	-	-	-
TF	PELAD	N	+16000	210	036° (039.0°T)	10.3

1.3 IFR Approach Procedures

VISUAL APCH with RNP guidance RWY 03:

The final approach track is 9.1 degrees offset to the left of the RWY CL, and must be flown in visual conditions due to high terrain in the region of ZS702 (FAF).

RNP RWY 21:

Due to close proximity of high terrain in the final and missed approach phase, a strict adherence to the published procedures is required.

The final approach is based on a continuous descent (CDFA principle). When reaching the OCA(H) and no visual contact to the landing RWY is established and can be maintained, start the missed approach climb without delay, proceed to the MAPt and follow the missed approach procedure. Obstacle clearance is calculated with RNP 0.3 until MAPt.

Level flight to MAPt at OCA(H) prohibited.

VISUAL APCH with RNP guidance RWY 03 and RNP RWY 21:

The flight crew is required to perform a position report at the FAF.

Communication Failure Procedure

In case of COM failure prior to IAF without approach clearance received:
- Set transponder on 7600.
- Maintain last assigned and acknowledged flight level.
- Enter PELAD/RONAG holding.
- Hold for 20 minutes, then start the approach.

In case of COM failure after having passed the IAF:
- Set transponder on 7600.
- Continue approach
- In case of missed approach perform maximum two holding patterns. If radio contact is not re-established, proceed to alternate aerodrome.

(see chart LSZS AD 2.24.7.10 - 1)

VISUAL APCH with RNP guidance RWY 03						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	PELAD	N	+16000	240	-	-
TF	ZS700	N	+13000	-	268° (271.0°T)	11.3
TF	ZS716	N	-	160	160° (162.6°T)	12.3
TF	ZS701	N	+12400	-	160° (162.7°T)	5.0
TF	ZS702	N	+11800	-	065° (068.2°T)	5.0
TF	ZS705	Y	-	-	035° (038.3°T)	10.9
TF	ZS706	N	-	-	030° (033.5°T)	4.9
TF	RONAG	N	+14000	210	045° (048.0°T)	19.0

(see chart LSZS AD 2.24.7.10 - 3)

RNP RWY 21						
Path terminator	**Waypoint**	**Flyover**	**Altitude (ft)**	**Speed limit (kt)**	**Track**	**Distance (NM)**
IF	RONAG	N	+14000	210	-	-
TF	ZS710	N	+13000	160	233° (236.4°T)	5.3
TF	ZS712	Y	-	-	221° (224.4°T)	15.0
TF	ZS702	N	+12700	-	214° (216.9°T)	14.6
TF	ZS713	N	-	-	304° (306.7°T)	7.4
TF	PELAD	N	+16000	240	034° (036.6°T)	12.6

CTN: Step down fix at 9.9 NM to ZS712 not to be coded as WPT.

1.4 Aircraft, Airport and Pilot Qualification

To operate at Samedan under IFR, the following airport requirements must be fulfilled:

a. For piston engine aircraft and multiple IFR APCH (training) PPR required. ppr.smv@engadin-airport.ch
b. Operator's contingency procedures (if required by the type of FLT operation) must be calculated and available.
c. The pilot in command must hold a valid pilot qualification for the applicable type of operation and flight procedures.
d. LSZS briefing not older than 24 months.

1.5 Minima for IFR Departures (TKOF Minima)

RWY	SID	VIS (m) / Ceiling (ft AGL)	RMK
03	RONAG 1E	2000 / ---	Ceiling means BKN or OVC. VMC must be maintained up to the ALT stated in the table.
	RONAG 1V	5000 / 4400	
21	PELAD 1W	2000 / ---	
	PELAD 1V	5000 / 5100	

LSZS AD 2.23 ADDITIONAL INFORMATION

High Visibility Jackets and Crew ID badge:
All pilots walking on the AP movement area must wear a high-visibility jacket which complies with the EN 471 standard class 2 or 3.
Persons not wearing a high-visibility jacket have to use the AP shuttle or ask the ground staff or ground handling agents for assistance.
All crew members must ensure their ID badge is clearly visible, above the waist and shall produce the Crew ID badge upon request of the control agents of the AP.

1. List of significant points (Terminal)

NAV point	COORD WGS84		Purpose
	LAT	LONG	
1	2		3
DER03	N 46 32 29.4	E 009 53 23.4	SID LSZS
DER21	N 46 31 37.3	E 009 52 41.1	SID LSZS
ZS500	N 46 37 23.3	E 009 58 03.2	SID LSZS
ZS501	N 46 34 28.6	E 009 55 16.7	SID LSZS
ZS510	N 46 23 35.3	E 009 43 15.1	SID LSZS
ZS511	N 46 27 55.9	E 009 34 08.3	SID LSZS
ZS700	N 46 36 06.5	E 009 27 06.2	IAC LSZS
ZS701	N 46 19 35.4	E 009 34 33.4	IAC LSZS
ZS702	N 46 21 26.7	E 009 41 15.5	IAC LSZS
ZS705	N 46 30 00.0	E 009 51 02.4	IAC LSZS
ZS706	N 46 34 04.0	E 009 54 56.4	IAC LSZS
ZS710	N 46 43 49.1	E 010 09 06.0	IAC LSZS, SID LSZS
ZS711	N 46 39 57.6	E 010 03 36.4	SID LSZS
ZS712	N 46 33 05.8	E 009 53 53.0	IAC LSZS
ZS713	N 46 25 52.1	E 009 32 40.7	IAC LSZS
ZS716	N 46 24 21.8	E 009 32 24.7	IAC LSZS

LSZS AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart	LSZS AD 2.24.1 - 1
Aerodrome Obstacle Chart - Type A - RWY 03	LSZS AD 2.24.4 - 1
Aerodrome Obstacle Chart - Type A - RWY 21	LSZS AD 2.24.4 - 3
SID RWY 03 - RNAV 1 HIGH PERFORMANCE	LSZS AD 2.24.7 - 1
SID RWY 03 - RNAV 1 HIGH PERFORMANCE VISUAL	LSZS AD 2.24.7 - 3
SID RWY 21 - RNAV 1 HIGH PERFORMANCE	LSZS AD 2.24.7 - 5
SID RWY 21 - RNAV 1 HIGH PERFORMANCE VISUAL	LSZS AD 2.24.7 - 7
IAC VISUAL APCH with RNP Guidance RWY 03	LSZS AD 2.24.10 - 1
IAC RNP RWY 21	LSZS AD 2.24.10 - 3
Aerodrome VFR Area Chart for Y and Z ATC FPL	LSZS AD 2.24.11 - 1
Aerodrome Visual Approach Chart	LSZS AD 2.24.12 - 1

LSZS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

LSGS - SION

LSGS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LSGS - SION

LSGS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	46 13 09 N 007 19 37 E - RWY midpoint
2	**Direction and distance from the CITY**	2.5 km SW Sion
3	**Elevation/Reference temperature**	*1582 ft AMSL* - 25.5º C
4	**Geoid undulation at AD ELEV PSN**	169.9 ft
5	**MAG VAR/Annual change**	2° E (2016.5) / 0°10' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Aéroport de Sion Route de l'aéroport CH-1950 **Sion** Phone: +41 (0) 27 329 06 00 Fax: +41 (0) 27 329 06 16 AFS: LSGSZPZX - LSGSYDYX SITA: SIRAPXH Email: aeroport@sion.ch URL: http://www.sionairport.ch/
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSGS AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	APR-SEP: 0500 - HRH, MAX 1800 OCT-MAR: 0700 - HRH, MAX 1900 HRH = Day and night limits. REF: GEN 2.7.
2	**Customs and immigration**	AD OPR HR
3	**Health and sanitation**	AD OPR HR
4	**AIS Briefing Office**	AD OPR HR
5	**ATS Reporting Office (ARO)**	AD OPR HR
6	**MET Briefing Office**	AD OPR HR
7	**ATS**	HX
8	**Fuelling**	AD OPR HR
9	**Handling**	AD OPR HR
10	**Security**	AD OPR HR
11	**De-icing**	AD OPR HR
12	**Remarks**	Outside AD administration hours - OPS and services O/R. Special permission is required for flights outside of the opening hours. APR-SEP: 1800 - 1900, **PPR** until 1000 OCT-MAR: 0600 - 0700, **PPR** until 1600 the preceding day, HRH - 2000, **PPR** until 1100 **Special Flights inside CTR and TMA** Special FLTs are subject to coordination requirements. Refer to VFR Manual, VFR RAC 4-0-7 Or via URL: http://www.skyguide.ch/en/services/aim-services/special-flights-activities/

LSGS AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	Handling possible O/R
2	**Fuel/oil types**	JET A1, AVGAS 100LL, AVGAS UL91 MOBIL 2, W80, W100, 15W50
3	**Fuelling facilities/capacity**	JET A1: 2 trucks 20000 litres AVGAS 100LL: 2 trucks 2500 litres / 1 Self service tank - 20000 litres AVGAS UL91: 1 trailer 2000 litres / 1 Self service tank - 10000 litres
4	**De-icing facilities**	NOV 01 - APR 30: De-icing assured De-icing fluids available: Type I Kilfrost DF-Plus; Type II Kilfrost ABC K-Plus On-stand de-icing: Sion Airport Clean Aircraft Concept as defined in ICAO Doc 9640 is applied; aircraft are de-iced according to the requirements of SAE AS6285. Airport Authority can intervene in case of non-adherence.
5	**Hangar space for visiting aircraft**	For ACFT up to 77'000 kg, type A320
6	**Repair facilities for visiting aircraft**	Major and minor aircraft and engine repairs: • FARNER (ACFT up to 5700 kg): +41 (0) 27 322 97 31 • Dassault Aviation Business Services: +351 210 322 824
7	**Remarks**	For non-based aircraft with MTOM > 3 tons, a handling agent is mandatory. Self-handling is not allowed. The handling agents are: **Aéroport de Sion** Phone: +41 (0)27 329 06 00 Fax: +41 (0)27 329 06 16 Email: aeroport@sion.ch **Signature Flight Support** Phone: +41 (0)27 305 24 24 Fax: +41 (0)27 322 14 16 Email: sir@signatureflight.ch **Alpine Jet Services** Phone: +41 (0)27 327 30 50 Fax: +41 (0)27 327 30 51 Email: handling@alpinejet.ch For such FLTs the name of the handling agent shall be entered in item 18 "other information" of the ICAO flight plan.

LSGS AD 2.5 PASSENGER FACILITIES

1	**Hotels**	In the city
2	**Restaurants**	At AD and in the city
3	**Transportation**	Buses, taxis and car rental from the AD. Trains in city
4	**Medical facilities**	First aid at AD, Ambulance O/R, Hospitals in the city
5	**Bank and Post Office**	In the city, Cash dispenser and Letterbox at AD within AD OPS HRS
6	**Tourist Office**	Office in the city: Phone: +41 (0) 27 327 77 27 Fax: +41 (0) 27 322 77 28 Email: info@siontourisme.ch
7	**Remarks**	NIL

LSGS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 5 for charter traffic Category 3 for other traffic HYR than Category 3 (max category 7): O/R 3 HR before ETA/ETD
2	**Rescue equipment**	4 fire engines, 1 ramp control vehicle
3	**Capability for removal of disabled aircraft**	Crane, lifting bags and hydraulic jacks up to 20 t.
4	**Remarks**	RFF not available during snow clearing

LSGS AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	4 snow blowers, 4 snow ploughs, 4 jet sweepers, 3 RWY de-icer, 1 aircraft de-icer
2	**Clearance priorities**	1. RWY and associated TWY to apron 2. Other TWY and ACFT stands
3	**Remarks**	Information on snow clearance published from NOV 01 - APR 30 in NOTAM (SNOWTAM) RWY 07/25 de-iced / anti-iced with betaine: BETAFROST (liquid) / NUTRISTIM (solid).

LSGS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	**Designation, surface and strength of Aprons**	CONC / ASPH PCN 40 F/B/X/T
2	**Designation, width, surface and strength of Taxiways**	15/20 m CONC / ASPH PCN 40 F/B/X/T Details: Ref to LSGS AD 2.24.1/2
3	**ACL location and elevation**	No ACL markings
4	**Location of VOR checkpoints**	NIL
5	**Location of INS checkpoints**	NIL
6	**Remarks**	NIL

LSGS AD 2.9 SURFACE MOVEMENT GUIDANCE, CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	ACFT stand identification markings. Lead-in, stop and lead-out lines. Apron safety lines. Marshalling available on sectors North, Grély and South-East.
2	**RWY/TWY markings and LGT**	RWY markings: D-THR, designation, centre line and pre-THR area, side stripe. RWY LGT: see LSGS AD 2.14 TWY markings: Centre line, intermediate holding positions, runway holding position and mandatory instruction at all intersections with RWY. TWY LGT: Edge lights on TWY A*, B, C, D, F, G and S* (*: near runway only). Runway guard lights on TWY A and B. Mandatory instruction signs at all RWY holding positions. Information signs on the movement area.
3	**Stop bars and RWY guard lights**	NIL
4	**Other RWY protection measures**	NIL
5	**Remarks**	The portion of TWY A east of TWY B is located within the runway strip. No use without ATC instructions.

LSGS AD 2.10 AERODROME OBSTACLES

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 07 (1)	Enclosure	*1591*	46 13 22 N 007 20 23 E	Power line	85m AGL	46 15 47 N 007 14 30 E 46 15 27 N 007 14 14 E	B0060/02
AOC 07 (2)	Pole	*1592*	46 13 23 N 007 20 24 E	Building	*1677*	46 13 31 N 007 21 26 E	
AOC 07 (3)	Tree/Trees	*1611*	46 13 24 N 007 20 31E	Antenna marked	*4216*	46 11 30 N 007 20 04 E	
AOC 07 (3a)	Tree/Trees	*1628*	46 13 22 N 007 20 43 E	Building LGTD	*1624*	46 13 29 N 007 20 53 E	
AOC 07 (3b)	Tree/Trees	*1645*	46 13 32 N 007 20 56 E	Tree/trees	*1804*	46 13 04 N 007 18 26 E	
AOC 07 (4)	Tree/Trees	*1681*	46 13 33 N 007 20 59 E	Tree/trees	*1844*	46 13 11 N 007 18 44 E	
AOC 07 (5)	Tree/Trees	*1689*	46 13 33 N 007 20 59 E	Crane/cranes	1686	46 12 55 N 007 17 53 E	B0032/04
AOC 07 (6)	Tree/Trees	*1711*	46 13 37 N 007 21 14 E	Tower/Mast marked	*1693*	46 12 51 N 007 18 41 E	
AOC 07 (7)	Tempo crane	*1754*	46 13 42 N 007 21 39 E	Building	*1614*	46 13 20 N 007 20 08 E	
AOC 07 (8)	Power line	*1920*	46 14 03 N 007 24 46 E	Building	*1670*	46 13 29 N 007 20 36 E	
AOC 07 (9)	Tree/Trees	*1940*	46 14 05 N 007 24 52 E	Building	*1690*	46 13 21 N 007 19 54 E	
AOC 07 (10)	Tree/Trees	*2081*	46 14 05 N 007 24 57 E	Tree/trees	*1634*	46 13 15 N 007 19 43 E	
AOC 07 (11)	Tree/Trees	*2200*	46 14 07 N 007 25 04 E	Power line	90 m AGL	46 13 13 N 007 14 50 E 46 13 20 N 007 14 43 E 46 13 28 N 007 14 43 E	B0059/02
AOC 07 (12)	Tree/Trees	*2337*	46 14 09 N 007 25 09 E	Building LGTD	*1611*	46 13 19 N 007 20 01 E	B0391/14
AOC 07 (13)	Tree/Trees	*2501*	46 14 10 N 007 25 15 E	Crane/cranes marked/LGTD	*1670*	46 13 12 N 007 20 19 E	B0411/05
AOC 07 (14)	Tree/Trees	*2590*	46 14 12 N 007 25 24 E	Crane/cranes marked	*1690*	46 13 28 N 007 20 19 E	B0322/22
AOC 07 (15)	Tree/Trees	*2735*	46 14 14 N 007 25 30 E	Aerial railway marked	3649	46 10 16 N 007 13 17 E 46 09 52 N 007 14 39 E	B0360/09
AOC 07 (16)	Tree/Trees	*2865*	46 14 21 N 007 25 50 E				
AOC 25 (1)	Enclosure	*1585*	46 13 01 N 007 18 49 E	Antenna	*1697*	46 13 40 N 007 21 32 E	B0512/06
AOC 25 (2)	Tree/Trees	*1590*	46 13 01 N 007 18 49 E	Crane marked/LGTD	*1664*	46 12 52 N 007 17 43 E	B1102/07
AOC 25 (3)	Tree/Trees	*1591*	46 13 01 N 007 18 44 E	Antenna LGTD	*1631*	46 13 11 N 007 19 12 E	B0488/08

LSGS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	ALS Type LEN, INTST	THR LGT Colour, INTST, WBAR	VASIS Type PSN MEHT	RTZL LEN, INTST	RCLL LEN, spacing, colour, INTST	REDL LEN, spacing, colour, INTST	RENL Colour, INTST	SWY LGT LEN, colour	RMK
1	2	3	4	5	6	7	8	9	10
07	SALS 540 m LIH	RTHL G LIH WBAR	PAPI 4.0°, L, 12.33 m	NIL	NIL	65 m, 50 m, R, LIH; 1335 m, 50 m, W, LIH; 600 m, 50 m, Y, LIH	R, LIH	NIL	NIL
25	SALS 540 m LIH	RTHL G LIH WBAR	PAPI 4.0°, L, 12.12 m	NIL		60 m, 50 m, R, LIH; 1340 m, 50 m, W, LIH; 600 m, 50 m, Y, LIH	R, LIH	NIL	NIL

PAPI 07 light beam is offset 2° south from runway axis. CTN: ICAO obstacle protection surface and PAPI light beam are penetrated by topography starting west of Chamoson village (D3.8 ISI).
PAPI 25 light beam is offset 5° north from runway axis. CTN: ICAO obstacle protection surface and PAPI light beam are penetrated by topography starting east of Bramois village (D4.0 ISI).

LSGS 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**	NIL
3	**TWY edge and centre line lighting**	Edge: TWY A*, B, C, D, F, G and S* (* near RWY only)
4	**Secondary power supply/switch-over time**	25 Seconds (above ICAO Standard)
5	**Remarks**	NIL

LSGS AD 2.16 HELICOPTER LANDING AREA

1	**Coordinates TLOF or THR of FATO**	**Sector North:** 46 13 19N / 007 20 23E **Sector Grély:** 46 13 10N / 007 19 37E **Sector South-East:** 46 13 19N / 007 20 43E
	Geoid undulation	NIL
2	**TLOF and/or FATO elevation**	**Sectors North and South-East:** *485 m / 1591 ft* **Sector Grély:** *483 m / 1584 ft*
3	**TLOF and FATO area dimensions, surface, strength, marking**	**All sectors:** HEL PRKG stands basically designed for rotor diameter 11.00 m and overall length 13.15 m. No simultaneous hover operations allowed on HEL stands. **Sector North:** FATO at THR 25, ASPH, runway markings. 2 HEL stands for non-based HEL: Stand 21: 46 13 19.757N / 007 20 09.281E Stand 22: 46 13 20.479N / 007 20 08.967E 2 HEL stands 81, 82 for Air Glaciers MAINT. ASPH, touchdown markings. **Sector Grély:** FATO at midpoint RWY 07-25 (ARP), ASPH, runway markings. 2 HEL stands: Stand 71: 46 13 05.189N / 007 19 36.843E Stand 72: 46 13 05.407N / 007 19 37.873E ASPH, touchdown markings. 2 HEL stands for taxiing HEL. ASPH lead-in and stop line **Sector South-East:** FATO 20 m x 20 m, grass, identification and perimeter markings. Based HEL only. 9 HEL stands 1 to 9, ASPH, touchdown markings. 1 HEL stand 1A for larger HEL (rotor diameter 16 m and overall length 19 m, e.g. Super Puma).
4	**True BRG of FATO**	**Sectors North and Grély:** RWY 07: 073°; RWY 25: 253° **Sector South-East:** RWY 07: 078°; RWY 25: 261°
5	**Declared distance available**	**Sectors North and Grély:** Ref; LSGS AD 2.13 **Sector South-East:** FATO 20 m x 20 m
6	**APP and FATO lighting**	**Sectors North and Grély:** Ref; LSGS AD 2.14 **Sector South-East:** NIL
7	**Remarks**	**All sectors:** HEL REP - Refer to VFR Manual. **Sector North:** In order to optimise the coordination of HEL traffic at Sion, PPR for non-based HEL. Parking up to 7 days maximum via: Email: aeroport@sion.ch or Phone: +41 27 329 06 00 For non-based HEL larger than rotor diameter 11.00 m or overall length 13.15 m, an authorisation is required before any ARR or DEP. Phone: +41 27 329 06 00 **Sector Grély:** Handling with Signature Flight Support mandatory. ARR HEL must be towed away from the stand immediately after touchdown. Departing HEL must lift-off as soon as they have been positioned on the stand. For HEL larger than rotor diameter 11.00 m or overall length 13.15 m, coordination is required with Signature Flight Support before any ARR or DEP. Phone: +41 27 305 24 24 **Sector South-East:** Based HEL only.

LSGS AD 2.17 ATS AIRSPACE

1	**Designation and lateral limits**	**SION CTR** 46 16 41N 007 26 05E - 46 14 00N 007 28 02E - 46 12 04N 007 23 51E - 46 10 20N 007 14 21E - arc of circle 1.62 NM on - 46 11 54N 007 13 45E - clockwise 46 13 27N 007 13 04E - 46 15 06N 007 20 51E - 46 16 41N 007 26 05E
2	**Vertical limits**	FL 130
3	**Airspace classification**	D
4	**ATS unit call sign Language(s)**	En; En and Fr for Non-Commercial VFR traffic.
5	**Transition altitude**	*17000 ft AMSL* except *13000 ft AMSL* for SIDs GOLEB
6	**Remarks**	ACT: HX - ATIS (monitoring compulsory)

LSGS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	**2**	**3**	**4**	**5**
ATIS	NIL	130.630 MHz	HX	Phone: Service: +41 (0) 22 417 40 80
APP	SION RADAR	126.825 MHz	HO	Language: En
TWR	Sion Tower	118.275 MHz 119.700 MHz	HX	ALTN FREQ Language: En; En and Fr for Non-Commercial VFR traffic.
FIC	Geneva Information	126.350 MHz	H24	NIL
GND	Sion Ground	121.705 MHz	HX	Language: En; En and Fr for Non-Commercial VFR traffic.

LSGS 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**
SION DVOR/DME (VAR 3° E)	SIO	112.15 MHz 58Y	H24	46 12 55.8N 007 17 19.6E	*1594 ft*	PSN: 260° MAG, 2.2 NM FM THR 25. DOC 40 NM / *25'000 ft*. Service range outside published IAC and SID PROC unreliable.
LOC 25	ISI	110.70 MHz	H24	46 12 57.1N 007 18 40.4E		LOC PSN: 252° MAG, 2214 m FM THR 25. LOC course 244° MAG. Front course sector width 2°. Restricted coverage: 6 to 30 NM - +/- 8° from CL above 5° elevation from LOC.
GP 25		330.20 MHz	H24	46 13 54.7N 007 23 07.2E		GP Angle 6°. PSN: 072° MAG 3774 m before THR 25. Restricted coverage: 6 to 30 NM - +/- 8° from CL above 5° elevation from LOC.
DME 25	ISI	44X	H24	46 12 54.7N 007 18 46.2E	*1609 ft*	DME Co-located with LOC. 1.2 NM DME THR 25. Restricted coverage: 6 to 30 NM - +/- 8° from CL above 5° elevation from LOC.

LSGS AD 2.20 LOCAL AERODROME REGULATIONS

1. Local flying restrictions and remarks

AD is for joint use: CIV and MIL.

Use is only by ACFT carrying SVCBL RTF equipment. Exemption from this restriction is granted in exceptional cases. Special permission to be requested by TEL prior to TKOF.

Use of paved RWY is compulsory for all aeroplanes during GLD ACT.

Reserved GLD SECT:
PJE: Refer to VFR Manual, LSGS VAC.

Use of reverse thrust:
For deceleration, it is recommended that the entire RWY LEN AVBL is used; use of reverse thrust shall be limited unless particular safety or operational reasons require it.

MON-SAT: 0600 - 0700 (0500 - 0600), 1100 - 1200 (1000 - 1100), 1700 - 1900 (1600 - 1800) and SUN-HOL, following operations are prohibited:

- AD circuits for
  - non based ACFT
  - noise Category A and B ACFT
  - multi engine ACFT
- aerobatics FLT in the CTR (except gliders) and in the TMA
- engine and reactors control
- technical FLT
- LDG, APCH with go-around, TKOF of ACFT noise Category I/II/III and civil registered fighters are subject to special AUTH.

2. MIL Equipment

- The runway is equipped with 2 retractable MIL arresting cables, located between the thresholds. Cables are retracted when CIV ACFT use RWY. The distance between the cables is 1250 m. If those are not retracted, CIV aircraft are prohibited from rolling over them.

3. Airport regulation

At Sion AP, a number of local regulations apply. The regulations are included in a manual which is AVBL at the AIS briefing office. This manual includes, among other subjects, the following:

a. the meaning of markings and signs;
b. information about ACFT parking;
c. HEL operations;
d. GLD ACT;
e. PJE;
f. aerobatics;
g. marshaller assistance and towing;
h. engine start-up and use of APU.

Departing IFR FLTs shall always contact Sion Ground 121.705 MHz to obtain start-up and ATC clearance.
Marshaller assistance or “Follow me” vehicles can be requested and further information about the regulation can be obtained from Sion Ground or the AIS.
When a local regulation is of importance for the safe operation of ACFT on the apron, the information will be given to each ACFT by Sion Ground or the AIS.

“Local regulations” may be requested, in writing, from:

Post: Aéroport de Sion
Route de l’aéroport
CH-1950 Sion

2. Table for temperature deviation from ISA

ALT	ISA	ISA + 20°C	ISA + 10°C	ISA - 10°C	ISA - 20°C
		Altimeter reading	Altimeter reading	Altimeter reading	Altimeter reading
17000	- 19°C	OAT + 1°C *15940*	OAT - 9°C *16450*	OAT - 29°C *17600*	OAT - 39°C *18240*
16000	- 17°C	OAT + 3°C *15010*	OAT - 7°C *15490*	OAT - 27°C *16550*	OAT - 37°C *17160*
13610	- 12°C	OAT + 8°C *12790*	OAT - 2°C *13190*	OAT - 22°C *14070*	OAT - 32°C *14560*
11690	- 8°C	OAT + 12°C *11010*	OAT + 2°C *11340*	OAT - 18°C *12070*	OAT - 28°C *12490*
8630	- 2°C	OAT + 18°C *8160*	OAT + 8°C *8390*	OAT - 12°C *8890*	OAT - 22°C *9180*
7100	+ 1°C	OAT + 21°C *6730*	OAT + 11°C *6910*	OAT - 9°C *7300*	OAT - 19°C *7530*
4030	+ 7°C	OAT + 27°C *3870*	OAT + 17°C *3950*	OAT - 3°C *4120*	OAT - 13°C *4220*

Note: Pressure altimeters are calibrated to indicate true ALT under ISA conditions. Any DEV from ISA will therefore result in an erroneous reading on the altimeter. In case of a temperature HYR than ISA, the true ALT will be HYR than the figure indicated by the altimeter and the true ALT will be lower when the temperature is lower than ISA. The altimeter error may be significant in extremely cold temperatures.

LSGS AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

LSGS AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

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LSZH - ZURICH

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 29N 008 32 53E INT RWY 16/34, 10/28
2	**Direction and distance from the CITY**	9 km N Zurich
3	**Elevation/Reference temperature**	*1417 ft* - 27.0°
4	**Geoid undulation at AD ELEV PSN**	47.3 m / *155.1 ft*
5	**MAG VAR/Annual change**	3° E (2020.5) / 0°10' eastwards
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Flughafen Zürich AG P.O. Box CH-8058 Zurich-Airport AFS: LSZHYDYX URL: http://www.zurich-airport.com/ **Airport Authority:** Phone: +41 (0) 43 816 21 11 Email: airportauthority@zurich-airport.com
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	NIL

LSZH AD 2.3 OPERATIONAL HOURS

1	**Aerodrome Operator**	H24 refer to LSZH AD 2.20 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[1)]
9	**Handling**	H24[1)]
10	**Security**	H24
11	**De-icing**	H24[1)]
12	**Remarks**	NIL

1. reduced capacity during night ban

LSZH AD 2.4 HANDLING SERVICES AND FACILITIES

1	**Cargo-handling facilities**	All modern facilities AVBL
2	**Fuel/oil types**	JET A1, AVGAS 100LL Turbo oil, Aviation oil
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 De-icing fluids available: Type I: Kilfrost DF Plus Type IV: Kilfrost ABC S Plus • Remote de-icing: SWISSPORT • On-stand de-icing: SWISSPORT, AAS-NORDIC Aero, DNATA, Jet Aviation • LSZH AD 2.5
5	**Hangar space for visiting aircraft**	Restricted (only at short notice and O/R)
6	**Repair facilities for visiting aircraft**	Major and minor aircraft and engine repairs: • 5-Star Aviation: Phone +41 (0) 79 465 68 99 Email: 5star@5staraviation.ch • Textron Aviation - Cessna Zürich Citation Service Center: Phone +41 (0) 79 597 43 45 Email: ipilipovic@txtav.com • Helvetic Maintenance: Phone +41 (0) 79 939 09 21 Email: mcc@helvetic.com • Jet Aviation AG: Phone +41 (0) 58 158 84 62 Email: zrhfbo@jetaviation.com • Motorfluggruppe Zürich: Phone +41 (0) 44 881 22 22 Email: flightmaintenance@mfgz.ch • Northern Aerotech ApS: Phone: +41 (0) 76 470 29 55 Email: zurich@northern-aerotech.com • SR-Technics Switzerland AG: Phone +41 (0) 79 320 26 25 Email: zrhline@srtechnics.ch • Swiss Line Maintenance: Phone +41 (0) 44 564 40 44 Email: mcc@swiss.com
7	**Remarks**	Oxygen and related servicing AVBL.

LSZH AD 2.5 PASSENGER FACILITIES

1	**Hotels**	Directly at the airport: Radisson Blu Hotel, Phone +41 (0) 44 800 40 40. Other hotels in vicinity and in town. 13 dayrooms at the airport; Crew restrooms at the OPS centre.
2	**Restaurants**	Various restaurants for crews and passengers
3	**Transportation**	Public buses, trains, trams, taxis, car rental agencies
4	**Medical facilities**	Designated airport according to International Health Regulations (2005). Airport Medical Centre: Open from 0700-1930 (0600-1830) Phone: +41 (0) 43 816 60 00 Airport Dental Services: Open from 0600-1800 (0500-1700) Phone: +41 (0) 43 816 61 61 Airport Eye Clinic: Open from 0700-1600 (0600-1500) Phone: +41 (0) 43 816 70 00 Quarantine station (100 persons sitting); Doctor O/R; 3 ambulances; Hospitals in city. Special vehicle with lifting device available at Goldair AAS Assistance AG. Phone: +41 (0) 43 816 54 41
5	**Bank and Post Office**	At AP and in city
6	**Tourist Office**	At AP and in city
7	**Remarks**	NIL

LSZH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	Category 10
2	**Rescue equipment**	Available
3	**Capability for removal of disabled aircraft**	Yes
4	**Remarks**	Fire Brigade available when ACFT on ground on 123.100 MHz in German and English. Ask ATC for frequency change on second set.

Designations RWY NR	SWY dimensions (m)	CWY dimensions (m)	Strip dimensions (m)	OFZ	Remarks
1	8	9	10	11	12
10	NIL	60 x 150	2620 x 150	NIL	Non-instrument runway Grooved RESA: 240x150 m
28	NIL	60 x 150	2620 x 150	NIL	RWY strip dimensions according to non-instrument RWY criteria. Grooved RESA: 100x150 m Engineered Materials Arresting System (EMAS) with a length of 160 m and a width of 60 m at the end of RWY 28.
14	NIL	60 x 150	3420 x 300	YES	Precision approach runway CAT III Grooved RESA: 240x150 m Fully frangible LOC (75 m x 3 m) positioned within RESA at 216 m after RWY end. GP14 shelter located at 120 m from RCL within runway strip (marked and lighted).
32	NIL	60 x 150	3420 x 300	NIL	Non-instrument runway Grooved RESA: 240x150 m
16	NIL	60 x 150	3820 x 300	YES	Precision approach runway CAT III Grooved RESA: 240x150 m GP16 shelter located at 120 m from RCL within runway strip (marked and lighted).
34	NIL	60 x 150	3820 x 300	NIL	Precision approach runway CAT I Grooved RESA: 240x150 m

LSZH AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
10	2500	2560	2500	2500	Full length
	2000	2060	2000	Not usable	Intersection B7
	1900	1960	1900	Not usable	Intersection L7
	1480	1540	1480	Not usable	Intersection E
28	2500	2560	2500	2500	Full length
	1900	1960	1900	Not usable	Intersection K
14	Not usable	Not usable	Not usable	3150	--
32	3300	3360	3300	3300	Full length
	2700	2760	2700	Not usable	Intersection H2
	2300	2360	2300	Not usable	Intersection H1
16	3700	3760	3700	3700	Full length
	3000	3060	3000	Not usable	Intersection E3
	1070	1130	1070	Not usable	Intersection E6 / E7 / R7 / LIMA
34	3700	3760	3700	3240	Full length
	3270	3330	3270	Not usable	Intersection E8 / R8
	2570	2630	2570	Not usable	Intersection E7 / R7

LSZH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	ALS Type, LEN, INTST	THR LGT Colour, INTST, WBAR	VASIS Type, PSN, MEHT	RTZL LEN, INTST	RCLL LEN, spacing, colour, INTST	REDL LEN, spacing, colour, INTST	RENL Colour, INTST	SWY LGT LEN, colour	RMK
1	2	3	4	5	6	7	8	9	10
10	NIL	RTHL G, LIL, -	NIL	NIL	1600 m, 15 m, W, LIH; 600 m, 15 m, R/W, LIH; 300 m, 15 m, R, LIH.	1900 m, 45 m, W, LIL; 600 m, 45 m, Y, LIL	R, LIH	NIL	NIL
28	Calvert, 630 m, LIH; SALS, 420 m, LIL	RTHL G, LIH, -; RTIL FLG W	PAPI 3.3°, L, 18.83 m	Simple TZL* 921 m FM THR 28, W, LIH		1900 m, 45 m, W, LIH; 600 m, 45 m, Y, LIH	R, LIH	NIL	Calvert 28 shorter than standard (900m).
14	Calvert Cat II/III, 900 m, LIH	RTHL G, LIH, WBAR; RTIL FLG W	PAPI 3.0°, L, 17.40 m	LIH 900 m	2400 m, 15 m, W, LIH; 600 m, 15 m, R/W, LIH; 300 m, 15 m, R, LIH	150 m, 30 m, R, LIH; 2550 m, 30 m, W, LIH; 600 m, 30 m, Y, LIH	R, LIH	NIL	NIL
32	NIL	RTHL G, LIH, -; RTIL FLG W	NIL	NIL		2700 m, 30 m, W, LIH; 600 m, 30 m, Y, LIH	R, LIH	NIL	NIL
16	Calvert Cat II/III, 900 m, LIH; SALS, 420 m, LIL	RTHL G, LIH, WBAR; RTIL FLG W	PAPI 3.0°, L, 20.57 m	LIH 900 m	2800 m, 15 m, W, LIH; 600 m, 15 m, R/W, LIH; 300 m, 15 m, R, LIH	3100 m, 30 m, W, LIH; 600 m, 30 m, Y, LIH	R, LIH	NIL	NIL
34	Calvert Cat I, 795 m, LIH	RTHL G, LIH, WBAR; RTIL FLG W	PAPI 3.3°, L, 17.60 m	NIL		450 m, 30 m, R, LIH; 2650 m, 30 m, W, LIH; 600 m, 30 m, Y, LIH	R, LIH	NIL	Calvert 34 shorter than standard (900m).

***TZL:** The purpose of simple touchdown zone lights is to provide pilots with enhanced situational awareness in all visibility conditions and to help enable pilots to decide whether to commence a go-around if the aircraft has not landed by a certain point on the runway.

LSZH AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME

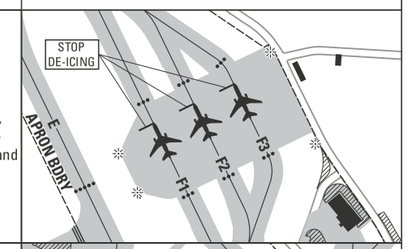
LSZH AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

NIL

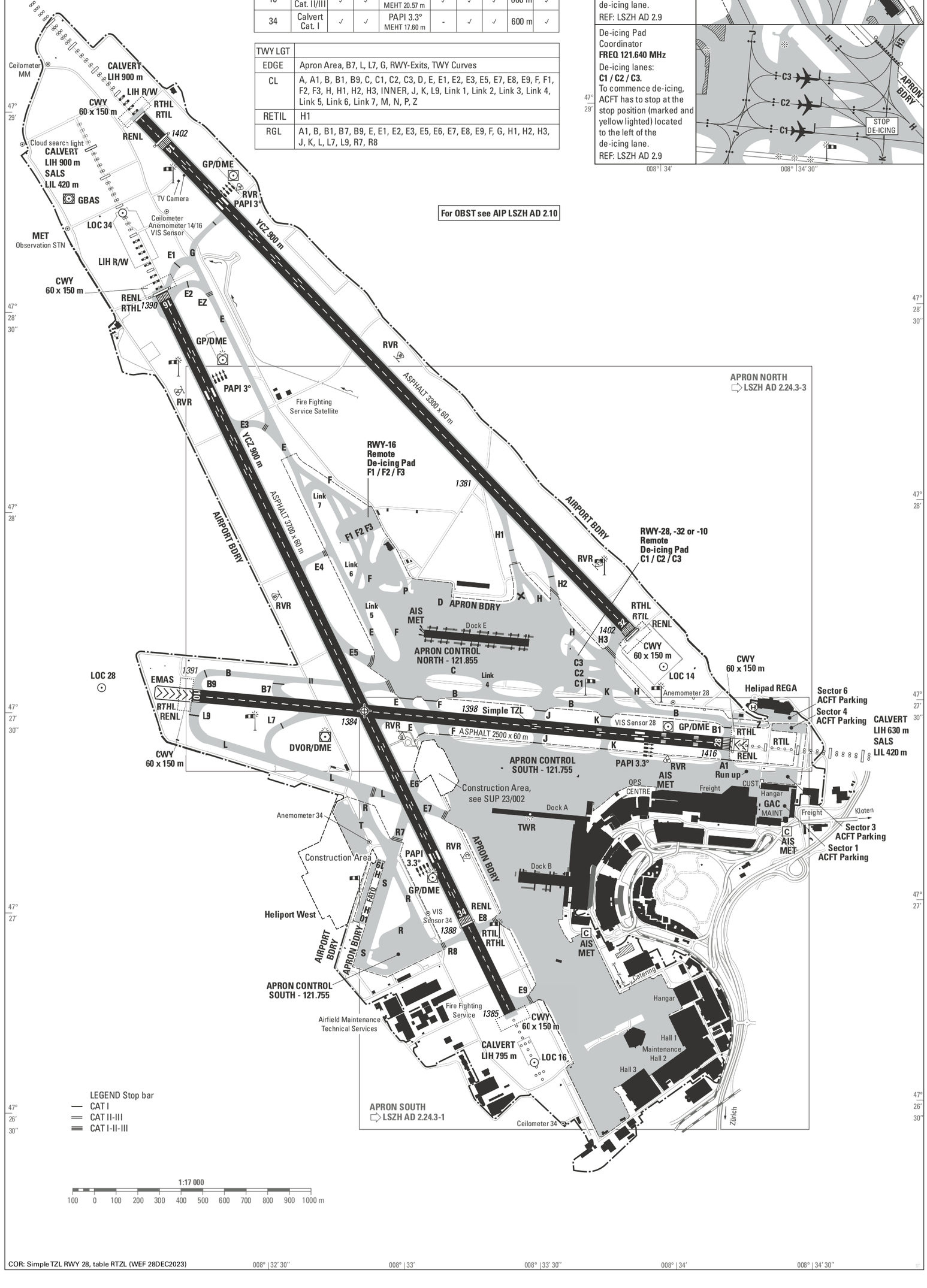
ARP WGS-84	AD ELEV ft
47° 27′ 29″ N / 008° 32′ 53″ E	1417

RWY LGT	ALS	RTHL	RTIL	VASIS	RTZL	RCLL	REDL	YCZ	RENL
10	-	✓	-	-	-	✓	✓	600 m	✓
28	Calvert	✓	✓	PAPI 3.3° MEHT 18.83 m	(simple TZL)	✓	✓	600 m	✓
14	Calvert Cat. II/III	✓	✓	PAPI 3° MEHT 17.40 m	✓	✓	✓	600 m	✓
32	-	✓	✓	-	-	✓	✓	600 m	✓
16	Calvert Cat. II/III	✓	✓	PAPI 3° MEHT 20.57 m	✓	✓	✓	600 m	✓
34	Calvert Cat. I	✓	✓	PAPI 3.3° MEHT 17.60 m	-	✓	✓	600 m	✓

TWY LGT	
EDGE	Apron Area, B7, L, L7, G, RWY-Exits, TWY Curves
CL	A, A1, B, B1, B9, C, C1, C2, C3, D, E, E1, E2, E3, E5, E7, E8, E9, F, F1, F2, F3, H, H1, H2, H3, INNER, J, K, L9, Link 1, Link 2, Link 3, Link 4, Link 5, Link 6, Link 7, M, N, P, Z
RETIL	H1
RGL	A1, B, B1, B7, B9, E, E1, E2, E3, E5, E6, E7, E8, E9, F, G, H1, H2, H3, J, K, L, L7, L9, R7, R8

Remote De-icing Pad	Site Overview
De-icing Pad Coordinator **FREQ 121.635 MHz** De-icing lanes: **F1 / F2 / F3.** To commence de-icing, ACFT has to stop at the stop position (marked and yellow lighted) located to the left of the de-icing lane. REF: LSZH AD 2.9	
De-icing Pad Coordinator **FREQ 121.640 MHz** De-icing lanes: **C1 / C2 / C3.** To commence de-icing, ACFT has to stop at the stop position (marked and yellow lighted) located to the left of the de-icing lane. REF: LSZH AD 2.9	

For OBST see AIP LSZH AD 2.10



COR: Simple TZL RWY 28, table RTZL (WEF 28DEC2023)

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