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.

6. HEL IFR APCH and DEP

Expect HEL IFR APCH and DEP outside ATC HR up to *7000 ft AMSL* and according to special authorization.

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

THIS PAGE INTENTIONALLY LEFT BLANK