

LRCL AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRCL - CLUJ NAPOCA / Avram Iancu

LRCL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP co-ordinates and site at AD	464721N 0234132E on RWY centre line, 1457M from THR07
2	Direction and distance from city	9 km East from Cluj Napoca.
3	Elevation/Reference temperature	1039 FT / 26.3°C
4	Geoid undulation at AD ELEV PSN	133 FT
5	MAG VAR/ Annual rate of change	5°E (2015) / 7.0'E
6	AD Administration, address, telephone, telefax, e-mail, AFS, website	Aeroportul Internațional Avram Iancu Cluj Str. Traian Vuia, nr. 149 , Cluj-Napoca, cod 400397 Tel: +40-(0)264-307500; +40-(0)264-416702; +40-(0)264-416708 Fax: +40-(0)264-416712; +40-(0)264-307505 Telex: 031288 AEROPCL R AFS: LRCLRAYD e-mail: office@airportcluj.ro SITA: CLJAPXH WEB: www.airportcluj.ro
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Helicopter flights permitted

LRCL AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Nil

LRCL AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	8 electric tractors, 2 diesel tractors, 41 dollies, 10 GPU 115V/400Hz and 28.5V, 2 GPU 28.5V, 1 air start unit, 3 self-propelled lavatory service vehicle, 3 self-propelled potable water service vehicles, 7 self-propelled conveyor belts, 1 high loader, 2 forklifts, 7 self-propelled passenger stairs, 11 towed passenger stairs, 8 passenger buses, 4 passenger/crew minibuses, 1 PRM transportation vehicle, 3 aircraft towing/push-back tractors, railway station in vicinity.
2	Fuel/Oil types	Kerosene JET A1/Nil
3	Fuelling facilities/capacity	4 trucks / 2 of 22000 L, 2 of 22000 L Kerosene storage: 396m ³ .
4	De-icing facilities	6 de/anti-icing units, with liquid type II.
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

LRCL AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in town.
2	Restaurants	Restaurant, buffets and snack bar in airport terminals.
3	Transportation	Buses, taxis, car hire from airport.
4	Medical facilities	First aid on the AD, Ambulance, hospitals in town.
5	Bank and Post Office	In departure terminal and in town. Exchange Offices in both terminals. ATM in arrival and departure terminals.
6	Tourist Office	Tourist Office in terminal.
7	Remarks	Rent-a-car Office, Tel: +40-(0)264-439403; +40-(0)264-417740; +40-(0)745-834368; +40-(0)741-217166.

LRCL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 7 / CAT 8 available O/R
2	Rescue equipment	2 vehicles with extrication equipment / 3 vehicles when CAT 8 requested.
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

LRCL AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	Mechanical: 6 trucks with plough, brush and sweep blower, 1 tractor with plough and brush, 1 snow blower. Chemical: 1 truck with plough, brush and de-icing liquid spreader, 1 tractor with plough and de-icing solid material spreader.
2	Clearance priorities	1. RWY 07/25 2. TWY F, G, D, A, L, Taxilane C, Taxilane E 3. APRON 2, APRON 1 4. Other surfaces
3	Remarks	Information on snow clearance published from November to April in NOTAM (SNOWTAM). See also the snow plan in section AD 1.2.2

LRCL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron designation, surface and strength	Surface: Apron 1: Concrete Apron 2: Concrete Apron 3: Concrete Strength: Apron 1: 36/R/D/W/T Stands: 1, 2, 3, 7, 8, 9 65/R/D/W/T Stands: 4, 5, 6 Apron 2: 116/R/B/W/T Stands: 10, 11 94/R/B/W/T Stands: 14, 16, 18 117/R/B/W/T Stands: 13, 15, 17 36/R/D/W/T Stands: 12
2	Taxiway designation, width, surface and strength	Width: TWY A: 18 M TWY D: 18 M TWY F: 25 M TWY G: 25 M TWY A, D, F, G, L, Taxilane C, Taxilane E: Concrete Surface: TWY A, D: 36/R/D/W/T Strength: TWY F, G: 114/R/B/W/T Taxilane C: 94/R/B/W/T Taxilane E: 36/R/D/W/T
3	ACL location and elevation	Nil
4	VOR checkpoints	Nil
5	INS checkpoints	APRON 1 INS 1: 464659.36N 0234107.06E INS 2: 464659.59N 0234108.65E INS 3: 464659.83N 0234110.40E INS 4: 464700.20N 0234115.17E INS 5: 464700.50N 0234117.43E INS 6: 464700.81N 0234119.70E INS 7: 464657.69N 0234108.48E INS 8: 464658.01N 0234110.73E INS 9: 464658.33N 0234112.98E APRON 2 INS 10: 464713.65N 0234136.81E INS 11: 464712.24N 0234137.49E INS 12: 464712.23N 0234153.54E INS 13: 464708.61N 0234139.20E INS 14: 464707.14N 0234132.65E INS 15: 464707.07N 0234139.94E INS 16: 464705.60N 0234133.39E INS 17: 464705.54N 0234140.68E INS 18: 464704.06N 0234134.12E
6	Remarks	In emergency situation, Stand 12 is assigned as isolated aircraft position. Helicopter parking position on APRON 1, stands 1, 7, 8, 9.

LRCL AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	All apron stands are standard and have individual numbers. Nose out parking is in operation for stands numbered 1-9 and 12. Nose in parking in operation for stand number 10, 11, 13, 14, 15, 16, 17, 18 (APRON 2). Guidance markings to each apron stand consist of a yellow continuous line.
2	RWY and TWY markings	RWY: Colour white: Designation, THR, centre line, edges, TDZ, aiming point. Colour yellow: Turnpad markings at THR25. TWY: Colour yellow: Centre line, edges, taxi holding position. Guidance yellow lights (LIH) to stands number: 13, 14, 15, 16, 17, 18.
3	Stop bars	Red stop bar on TWY F Red stop bar on TWY G
4	Remarks	Illuminated wind direction indicators are located adjacent to TDZ of RWY 25, THR 07 and West edge of TWY A. THR 07 displaced 240M.

LRCL AD 2.10 AERODROME OBSTACLES

<i>In approach / TKOF areas</i>			<i>In circling area and at AD</i>		<i>Remarks</i>
1			2		
<i>RWY/Area affected</i>	<i>Obstacle type Elevation Markings/LGT</i>	<i>Coordinates</i>	<i>Obstacle type Elevation Markings/LGT</i>	<i>Coordinates</i>	
a	b	c	a	b	
07/APCH	Tree	464656.45N	Building	464837.78N	
25/TKOF	325M/1066FT	0233953.11E	510M/1673FT	0233841.49E	
	Building	464654.70N	Geodetic point	464837.48N	
	325.4M/1066FT	0233951.82E	513M/1683FT	0233834.80E	
	Building	464659.13N	Geodetic point	464833.12N	
	331.2M/1086.6FT	0233940.93E	478.2M/1569FT	0234018.69E	
	Building	464620.64N	Hill	464855.44N	
	384.2m/1260FT	0233747.85E	440.8M/1446FT	0234242.93E	
	Antenna	464613.50N	Hill	464940.91N	
	386.5m/1268FT	0233726.10E	476.7M/1564FT	0234151.53E	
	Antenna	464610.62N	Hill	464617.44N	
	382M/1253FT	0233705.69E	451.2M/1480FT	0234336.52E	
	Antenna	464607.70N	Hill	464510.31N	
	391M/1283FT	0233656.40E	458.9M/1505FT	0233907.80E	
	Church	464619.06N	Hill	464539.68N	
	401.6M/1319FT	0233547.06E	438M.2/1438FT	0234206.29E	
	Church	464612.44N	Hill	464538.90N	
	428.7M/1407FT	0233522.68E	446.6M/1465FT	0234258.75E	
	Antenna	464547.23N	Hill	464637.12N	
	406.7M/1335FT	0233458.72E	536M/1759FT	0232910.91E	
	Antenna	464520.20N	Hill	464912.61N	
	480.2M/1575FT	0233436.56E	550M/1806FT	0233704.15E	
	Hill	464517.55N	Forest	464443.27N	
	442M/1449FT	0233430.29E	456.8M/1499FT	0234318.02E	
	Building	464526.70N			
	521.2M/1710FT	0233545.91E			
	Building	464442.01N			
	526.7M/1728FT	0233528.13E			
	Crane	464444.39N			
	552.3M/1812FT	0233527.37E			
	Antenna	464710.67N			
	351.5M/1153FT	0233926.74E			
	Church	464706.62N			
	359.5M/1179FT	0233927.32E			
	Antenna	464711.88N			
	349.9M/1148FT	0233932.42E			
	Building	464657.54N			
	322.6M/1058FT	0234012.09E			
	Building	464657.36N			
	323.6M/1062FT	0234011.12E			
	Building	464657.51N			
	325.5M/1068FT	0234007.97E			
	Church	464705.42N			
	346.6M/1137FT	0233923.30E			
	Building	464657.61N			
	324.7M/1065FT	0234010.33E			
25/APCH	Asphalt plant	464737.33N			
07/TKOF	335.9M/1102FT	0234317.85E			
	Hill	464906.13N			
	460M/1509FT	0234709.41E			
	Hill	464805.48N			
	465M/1526FT	0234645.58E			

LRCL AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	CLUJ
2	Hours of service MET Office outside hours	H24 -
3	Office responsible for TAF preparation Periods of validity Interval of issuance	LROM 9 HR 3 HR, during aerodrome operational hours
4	Type of landing forecast Interval of issuance	Nil -
5	Briefing / consultation provided	Self-briefing; briefing/consultation on request (see row 8)
6	Flight documentation Language(s) used	Charts, tabular form, abbreviated plain language text Romanian, English
7	Charts and other information available for briefing or consultation	SWC, W/T Charts, SIGMET, METAR, TAF
8	Supplementary equipment available for providing information	Tel: +40-(0)264-416855 Fax: +40-(0)264-416855
9	ATS units provided with information	CLUJ TWR
10	Additional information (limitation of service, etc.)	Nil

LRCL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR co-ordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
07	071.83°	2040 x 45	114/R/B/W/T Concrete	464706.53N 0234026.61E 464724.70N 0234147.26E GUND 133FT	THR 1037 FT
25	251.84°	2040 x 45	114/R/B/W/T Concrete	464724.70N 0234147.26E 464704.10N 0234015.86E GUND 133FT	THR 1023 FT TDZ 1023 FT
Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
-0.1% (135 M) -0.4% (540 M) -0.24% (960 M) 0.00% (345 M)	Nil	60 x 180	2160 x 210	Nil	Nil
0.00% (345 M) 0.24% (960 M) 0.4% (540 M) 0.1% (135 M)	Nil	60 x 180	2160 x 210	Nil	Nil

LRCL AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
07	2040	2100	2040	1800	Nil
25	2040	2100	2040	2040	Nil

LRCL AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type	THR LGT colour	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
07	CAT I 810M LIH	Green WBAR	PAPI 3°	Nil	900M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1200M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red	Nil	Red edge lights 240M before THR only on approach direction.
25	CAT II 900M LIH	Green WBAR	PAPI 3°	White 900M	1140M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1440M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red	Nil	180° turn path lighting at THR25

LRCL 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 Cup anemometer 165m FM THR 25 Cup anemometer 64m FM THR 07
3	TWY edge and centre line lighting	TWY edge: blue, omni-directional, LIL. TWY centre line: green, bi-directional, LIH.
4	Secondary power supply/switch-over time	Secondary power supply to CAT I/II lighting. Switch-over time 1 sec (RWY, TWYs, aprons).
5	Remarks	Apron floodlighting, obstacle lighting.

LRCL AD 2.16 HELICOPTER LANDING AREA

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

LRCL AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	CLUJ-NAPOCA CTR 464901N 0232101E - 465703N 0235639E - 464830N 0240044E - 464028N 0232505E - 464901N 0232101E
2	Vertical limits	GND to 3000 FT AMSL
3	Airspace classification	C
4	ATS unit call sign Language(s)	Cluj Tower English, Romanian
5	Transition altitude	7000 FT QNH
6	Hours of applicability	H24
7	Remarks	Nil

LRCL AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	NAPOC Approach	126.425 127.275 ALTN	H24	Radar Service
APP	NAPOC North Approach	126.425 127.275 ALTN	H24	Radar Service
APP	NAPOC South Approach	119.675 127.275 ALTN	H24	Radar Service
TWR	Cluj Tower	118.705 134.400 ALTN	H24	Exempted 8.33 kHz State aircraft only
ATIS	Cluj ATIS	121.500 EMERG 125.525	H24	Nil

LRCL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
LOC 25 (5°E/2015) ILS CAT II	ICX	111.900 MHz	H24	464701.6N 0234004.7E		Front course angle 5.35°
GP 25		331.100 MHz	H24	464717.8N 0234134.9E		GP angle 3.0° ILS RDH 54 FT
DME 25	ICX	1017.000 MHz (CH 56X)	H24	464717.6N 0234134.9E	1100 FT	Collocated with GP 25 antenna.
DVOR/DME (5°E/2015)	CLJ	111.200 MHz (CH 49X)	H24	464800.4N 0234714.1E	1600 FT	075.8 MAG / 3.79 NM from THR 25 Coverage 175 NM (assumed)

LRCL AD 2.20 LOCAL AERODROME REGULATIONS

- | | |
|--|---|
| <p>a) RWY 07 in service: after landing aircraft will vacate runway directly via TWY G or will back track on runway and vacate via TWY F;</p> <p>b) RWY 25 in service: after landing aircraft will vacate runway directly via TWY F, or will back track on runway and vacate via TWY G;</p> <p>c) Pedestrian displacement of passengers on APRONS 1, 2 and 3 is strictly forbidden due to aeronautical safety and security reasons.</p> | <p>a) RWY 07 în serviciu: după aterizare, aeronavele vor părăsi pista pe TWY G sau vor întoarce și rula pe pistă și o vor evacua pe TWY F;</p> <p>b) RWY 25 în serviciu: după aterizare, aeronavele vor părăsi pista pe TWY F sau vor întoarce și rula pe pista și o vor evacua pe TWY G;</p> <p>c) Deplasarea pedestră a pasagerilor pe APRON 1, 2 și 3 este strict interzisă din motive de siguranță și securitate aeronautică.</p> |
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Standard ARRIVAL Taxi Routes / Rutele Standard la SOSIRE

Landing on RWY 07						
Instruction given by ATC						
Taxi via standard taxi route	Name of the Standard Taxi Route	To			Taxiway to be followed	Remarks
	Arrival 1A		APRON 1	1...9	TWY G TWY D TWY A	Nil
	Arrival 1B		APRON 2	10, 11	TWY G	Nil
	Arrival 1C			13, 15, 17, 14, 16, 18	TWY G Taxilane C	
	Arrival 1D			12	TWY G Taxilane E	
Landing on RWY 25						
Instruction given by ATC						
Taxi via standard taxi route	Name of the Standard Taxi Route	To			Taxiway to be followed	Remarks
	Arrival 2A		APRON 1	1...9	TWY F TWY D TWY A	Nil
	Arrival 2B		APRON 2	10, 11	TWY F TWY D TWY G	Nil
	Arrival 2C			13, 15, 17, 14, 16, 18	TWY F TWY D Taxilane C	
	Arrival 2D			12	TWY F TWY D Taxilane E	

Standard DEPARTURE Taxi Routes / Rutele Standard de Rulare la PLECARE

Take-off RWY 07							
Taxi via standard taxi route	Instruction given by ATC			Stop bar	Remarks		
	Location	Name of the Standard Taxi Route	Taxiway to be followed				
	APRON 1	Departure 1A	TWY L TWY A TWY D TWY F			TWY F	Nil
	APRON 2	Departure 1B (Stands 10, 11)	TWY G TWY D TWY F				
Departure 1C (Stands 13, 14, 15, 16, 17, 18)		Taxilane C TWY D TWY F					
	Departure 1D	Taxilane E TWY D TWY F					
Take-off RWY 25							
Taxi via standard taxi route	Instruction given by ATC			STOP BAR	Remarks		
	Location	Name of the Standard Taxi Route	Taxiway to be followed				
	APRON 1	Departure 2A	TWY L TWY A TWY D TWY G			TWY G	Nil
	APRON 2	Departure 2B (Stands 10, 11)	TWY G				
Departure 2C (Stands 13, 14, 15, 16, 17, 18)		Taxilane C TWY G					
	Departure 2D	Taxilane E TWY G					

Airport regulations / Reguli de aeroport

1. When parking at positions(stands) no.1-6, and 12, self maneuvering procedure is applied;
2. When parking at positions(stands) no.10, 11, 13, 14, 15, 16, 17 and 18, self parking procedure must be applied, exit from stands is carried out by push-back procedure;
3. Marshaller's guidance must be provided to a moving aircraft on the apron surface whenever:
 - a) on pilot request;
 - b) whenever apron markings and lights are not visible;
 - c) during low visibility conditions (LVP);
 - d) there are obstacles close to parking stands.
4. For aircraft parking at stands 7-9 Marshaller guidance shall be performed.
5. Aircraft with code higher than aerodrome code 4C :
 - a) shall obtain aerodrome operator's prior approval; request will be sent at oper@airportcluj.ro, minimum 30 days before flight;
 - b) in case of declared emergency situations these may use LRCL without prior approval;
6.
 - 6.1. When land on RWY 07 aircraft with code higher than aerodrome code 4C shall vacate runway via TWY G, will be parked on stands 10 or 11;
 - 6.2. When land on RWY 25 aircraft with code higher than aerodrome code 4C shall performed backtrack and vacate runway via TWY G, will be parked on stands 10 or 11.
1. Când aeronavelor li se alocă pozițiile de parcare 1-6, și 12, va fi aplicată procedura self maneuvering;
2. Când aeronavelor li se alocă pozițiile de parcare 10, 11, 13, 14, 15, 16, 17 și 18, acestea vor urma procedura self parking, iesirea de la poziții se realizează prin procedura push-back;
3. Dirijarea aeronavelor în mișcare pe suprafețele platformelor va fi asigurată de către dispecerul sol în următoarele situații:
 - a) la solicitarea pilotului comandant;
 - b) când marcajele și luminile platformelor nu sunt vizibile;
 - c) în condiții de vizibilitate redusă (LVP);
 - d) când în apropierea pozițiilor de parcare se găsesc obstacole.
4. La parcare aeronavelor la standurile 7-9 se asigură dirijarea de către Dispecerul Sol.
5. Aeronavele cu litera de cod superioară celei de referință a aerodromului 4C :
 - a) trebuie să obțină în prealabil aprobarea operatorului de aerodrom; solicitarea va fi transmisă pe adresa oper@airportcluj.ro, cu minim 30 zile înaintea zborului;
 - b) în situații de urgență declarate, acestea pot utiliza LRCL fără aprobare prealabilă;
6.
 - 6.1 Când aterizează pe pista 07 aeronavele cu litera de cod superioară celei de referință a aerodromului 4C vor degaja pista via TWY G, vor fi parcate pe standurile 10 sau 11;
 - 6.2 Când aterizează pe pista 25, aeronavele vor efectua backtrack, vor degaja pista via TWY G, vor fi parcate pe standurile 10 sau 11.

LRCL AD 2.21 NOISE ABATEMENT PROCEDURES

Departure - See AD 1.1-3.

The APU is permitted functioning **maximum 15 minutes** after BLOCK ON TIME and may be started **with maximum 30 minutes** before STD.

Plecări - vezi AD 1.1-3.

La aterizare, aeronavele pot menține APU în funcțiune **maxim 15 minute** de la ora BLOCK ON TIME. La decolare APU poate fi pornit **cu maxim 30 minute** înainte de STD.

LRCL AD 2.22 FLIGHT PROCEDURES

~~Aircraft movements on the apron surfaces shall be carried out in accordance with the Marshaller's instructions except when taxi to park in accordance with self maneuvering procedure.~~

~~Mișcările aeronavelor pe suprafața platformelor trebuie efectuată sub dirijarea dispecerului sol, excepție fiind cazul când acestea parchează utilizând procedura self maneuvering.~~

1. P-RNAV requirements / Cerințe P-RNAV

RNAV SID and STAR procedures within NAPOC TMA are based on DME-DME sensors and designed in accordance with RNAV-1 (P-RNAV) criteria. RNAV-1 (P-RNAV) approval is required to conduct these procedures without additional restrictions.

RNAV-1 (P-RNAV) approved aircraft operators shall fill-in accordingly the flight plan.

Expect direct routing/shortcuts by ATC whenever possible (especially during off-peak hours). The turn to final approach is usually performed by radar vectors to expedite traffic handling and for separation reasons.

Tactical points for non-standard shorter approach are established: IXORI for CL RWY07, VIBUD for CL RWY25. These points may be used only after request/approval of air crews.

Procedurile SID și STAR RNAV din TMA NAPOC se bazează pe senzori DME-DME și sunt proiectate în conformitate cu criteriile RNAV-1 (P-RNAV). Pentru operarea acestor proceduri fără restricții suplimentare, este necesară aprobarea RNAV-1 (P-RNAV).

Operatorii aeronavelor aprobate RNAV-1 (P-RNAV) trebuie să completeze corespunzător planul de zbor.

Ori de câte ori este posibil, ATC va acorda autorizări "direct-to" (îndeosebi în afara perioadelor de vârf).

Virajul către apropierea finală este de obicei efectuat prin vectorizare radar, pentru a fluidiza traficul și pentru asigurarea eșalonării.

Sunt stabilite puncte tactice pentru apropieri non-standard mai scurte: IXORI pentru CL RWY07, VIBUD pentru CL RWY25. Aceste puncte pot fi utilizate numai la cererea sau cu acordul echipajului.



Vertical planning information: air crews should plan for possible descent clearance in accordance with vertical restrictions specified on STAR charts. Actual descent clearance will be as directed by ATC.

In case a published climb gradient can not be respected, air crews should request non-standard departure before startup.

Informații privind planificarea profilului de zbor vertical: se recomandă ca echipajele să efectueze planificarea zborului pentru o posibilă autorizare a coborârii în conformitate cu restricțiile verticale specificate pe harta STAR. Coborârea se va efectua însă în conformitate cu instrucțiunile ATC.

În cazul în care un gradient de urcare publicat nu poate fi respectat, se recomandă ca echipajele să solicite o decolare non-standard înainte de pornirea motoarelor.

2. LOW VISIBILITY PROCEDURES / PROCEDURI ÎN CONDIȚII DE VIZIBILITATE REDUSĂ

1. Description of facilities

1.1 Runway 25 is equipped with ILS and is approved for CAT II (RVR not less than 300m) operations.

1.2 Runway 07 approved for LVTO (RVR not less than 125m) operations.

1.3 Runway 25 approved for LVTO (RVR not less than 125m) operations.

1.4 On pilots request FOLLOW ME assistance is provided.

2. Criteria for the initiation and termination of LVP

2.1 Approach and landing

a) The preparation phase will be commenced when the RVR is 800m (horizontal visibility 1500m) or cloud ceiling/vertical visibility is 500ft and CAT II operations are expected;

b) The operation phase will be commenced when the RVR falls below 550m (horizontal visibility falls below 800m) or cloud ceiling/vertical visibility is 200ft or less;

c) LVP will be terminated when RVR is greater than 800m (horizontal visibility is 1500m or higher) and cloud ceiling/vertical visibility is greater than 300ft and a continuing improvement of these conditions is anticipated.

2.2 Take-off

LVTO will enter in force when RVR is below 400m.

3. Details of runway exits

3.1 Runway exits are equipped with green/yellow coded taxiway centerline lights.

3.2 Pilots shall report "OUT OF RUNWAY CAT II HOLDING POSITION" only after aircraft passed the green/yellow coded taxiway centre line lights section of taxiways F and G.

4. Ground movements restrictions

4.1 All aircraft movements on taxiways to/from RWY 07/25 shall be carried out on Standard LVP Taxi-Routes;

4.2 Upon receiving taxi clearance, aircraft shall proceed only when green centre line path is illuminated;

4.3 During LVP, taxiing is restricted to one aircraft movement at a time;

4.4 While LVP is in operation the access of vehicles on manoeuvring area shall not be allowed, except for vehicles designated for emergency actions (technical, RFF) and Follow Me car.

4.5 It is strictly prohibited to cross a Stop Bar alignment which has the red lights turned on.

5. Description of LVP

5.1 Approach and Landing in CAT II conditions

a) Pilots will be informed by ATIS or RTF when LVP are in operation;

1. Descrierea facilităților

1.1 Pista 25 este echipată cu ILS și este autorizată pentru desfășurarea operațiunilor CAT II (RVR nu mai mic de 300m).

1.2 Pista 07 autorizată pentru LVTO (RVR nu mai mic de 125m).

1.3 Pista 25 autorizată pentru LVTO (RVR nu mai mic de 125m).

1.4 La solicitarea piloților se asigură FOLLOW ME.

2. Criterii pentru inițierea și terminarea LVP

2.1 Apropierea și aterizarea

a) Faza de pregătire va fi declanșată atunci când RVR are valoarea de 800m (vizibilitate orizontală 1500m) sau plafonul norilor/vizibilitate verticală este de 500ft și sunt prevăzute declanșarea operațiunilor CAT II;

b) Faza operațională va fi declanșată atunci când valoarea RVR scade sub 550m (vizibilitatea orizontală scade sub 800m) sau plafonul norilor/vizibilitate verticală are valoare de 200ft sau mai puțin;

c) LVP vor fi încheiate atunci când valoarea RVR este mai mare de 800m (vizibilitate orizontală este 1500m sau mai mult) și plafonul norilor/vizibilitate verticală este mai mare de 300ft și este anticipată îmbunătățirea continuă a acestor condiții.

2.2 Decolarea

LVTO va fi declanșată atunci când RVR este mai mică de 400m.

3. Detalii privind eliberarea pistei

3.1. Racordurile pistei cu căile de rulare sunt echipate cu lumini axiale codificate verde/galben.

3.2 Piloții vor raporta "Pista liberă" numai după ce aeronava a depășit segmentul codat cu lumini verde/galben al axului căilor de rulare F și G.

4. Restricții privind mișcarea la sol

4.1 Toate mișcările pe căile de rulare spre/dinspre RWY 07/25 se fac numai pe Rutele LVP Standard de Rulare;

4.2 La obținerea autorizării de rulare, aeronava începe rularea doar atunci când luminile axiale verzi sunt aprinse;

4.3 Pe durata LVP rulajul pe suprafața de manevră este restricționat la o singură mișcare de aeronavă;

4.4 Când LVP este în derulare accesul vehiculelor pe suprafața de manevră nu va fi permis, cu excepția vehiculelor pentru intervenții de urgență (tehnice, SSI) și vehiculul Follow Me;

4.5 Este strict interzisă traversarea unui aliniament STOP BAR care are luminile roșii aprinse;

5. Descrierea procedurilor în condiții de vizibilitate scăzută

5.1. Apropiere și aterizare CAT II

a) Piloții vor fi informați ATIS sau RTF atunci când procedurile LVP sunt în derulare;



b)ATC will apply a proper spacing between aircraft so that aircraft being on final approach should be at least 4NM distance to TDZ(RWY25), when the preceding aircraft, in landing sequence, landed and had left sensible area of ILS Localiser RWY25.

5.2 Low Visibility Take Off

a)Aircraft movements on apron surface is monitored or guided by Ground Marshaller and on pilots request they provide "FOLLOW ME" assistance;

b)Number of vehicles subject to be allowed to enter apron surface is strictly limited to the necessary to carry out aircraft servicing;

c)All ATC and Marshaller instructions shall be confirmed through READ BACK method.

b)CTA vor aplica o eșalonare adecvată aeronavelor astfel încât aeronava aflată în procedură de apropiere să nu fie la o distanță mai mică de 4NM față de TDZ (RWY 25) în momentul în care, aeronava care a precedat-o în secvența de trafic, a aterizat, și a ieșit din zona sensibilă ILS Localiser RWY25.

5.2. Decolarea în condiții de vizibilitate redusă

a)Mișcarea aeronavelor pe suprafața platformelor aeroportului este asistată sau dirijată de către Dispecerii Sol, iar la cererea piloților, aceștia asigură asistență "FOLLOW ME";

b)Numărul vehiculelor carora li se permite accesul pe suprafața platformelor se reduce strict la minimum necesar pentru deservirea aeronavelor;

c)Instrucțiunile emise de ATC și Dispecer Sol vor fi confirmate prin READ BACK (repetarea conținutului).

LRCL AD 2.23 ADDITIONAL INFORMATION

1. Air operators which perform regular flights to Avram Iancu Cluj International Airport must ask and obtain a specific approval, from Airport Administrator in order to operate in accordance with their proposed programme during a season. The request shall be forwarded to Airport Administrator before airport settles winter/summer flight programme.

Hours of operation, changes in operating hours, starting to fly a new destination, modifying the frequencies on existing destinations are subject to the above mentioned specific approval.

This request must be made by fax and post, to Airport Administrator (see LRCL AD 2.2, point 6) at least **15 days** before the operation starts.

1. Operatorii aerieni care efectuează curse regulate pe Aeroportul Internațional Avram Iancu Cluj trebuie să solicite și să obțină aprobarea Administratorului Aeroportului pentru orele propuse de operare pe aeroport.

Demersul pentru aprobarea orelor de operare (pe aeroport) trebuie făcut înainte stabilirii programului de vară/iarnă; procedura de solicitare și obținere a aprobării se aplică și în cazul modificărilor de orice fel ale orarului de operare, de introducere a unei noi destinații, de modificare a frecvenței de operare spre/de la o destinație existentă.

Solicitarea trebuie făcută în scris și transmisă prin fax sau poștă, către Administratorul Aeroportului (vezi LRCL AD 2.2, punctul 6) cu cel puțin **15 zile** înainte de data începerii operării.

2. List of waypoints:

WPT (Type)	Latitude	Longitude	Designator/WPT	Latitude	Longitude
ABIMO (fly-by)	N464917198	E0235008323	CL972 (fly-by)	N464942415	E0235201109
BAISA (fly-by)	N463919998	E0232102063	DINIK (fly-by)	N464443523	E0230928888
BARTA (fly-by)	N465425346	E0240521860	DRAGU (fly-by)	N470305615	E0233255495
BIRTA (fly-by)	N465942073	E0232717220	EREDI (fly-by)	N465146940	E0232136153
CL901 (fly-by)	N465612912	E0235255681	ETORA (fly-by)	N463539942	E0235649456
CL902 (fly-by)	N465414752	E0234407421	LATEL (fly-by)	N465613299	E0232348744
CL903 (fly-by)	N465343793	E0234149611	NAPOC (fly-by)	N464100039	E0235736333
CL904 (fly-by)	N465301603	E0233842205	ROPAN (fly-by)	N470501593	E0233842873
CL905 (fly-by)	N465214336	E0233512788	TIPOV	N465051429	E0235710567
CL906 (fly-by)	N465045223	E0232839505	TURDA (fly-by)	N463416850	E0235214943
CL907 (fly-by)	N464136399	E0234934744	VEXEP (fly-by)	N463429781	E0232921938
CL908 (fly-by)	N464448596	E0235819538	VIBUD (fly-by)	N465030795	E0235537909
CL951 (fly-over)	N464622893	E0233106595			
CL971 (fly-over)	N464815686	E0234533950			

**LRCL AD 2.24 CHARTS RELATED TO THE AERODROME**

Aerodrome Chart - ICAO.....	AD 2.7-20
Aircraft Parking/Docking Chart - ICAO - APRON 1	AD 2.7-22
Aircraft Parking/Docking Chart - ICAO - APRON 2	AD 2.7-23
Aerodrome Obstacle Chart - ICAO - Type A	
RWY 25.....	AD 2.7-25
RWY 07.....	AD 2.7-26
Precision Approach Terrain Chart - ICAO	
RWY 25.....	AD 2.7-29
Standard Departure Chart - Instrument - ICAO	
RWY 07.....	AD 2.7-30
RWY 25.....	AD 2.7-31
Standard Arrival Charts - Instrument - ICAO	
RWY 07.....	AD 2.7-32
RWY 25.....	AD 2.7-33
RNAV Standard Departure Chart - Instrument - ICAO	
RWY 07.....	AD 2.7-34
RWY 25.....	AD 2.7-35
RNAV Standard Arrival Charts - Instrument - ICAO	
RWY 07.....	AD 2.7-36
RWY 25.....	AD 2.7-37
ATC Surveillance Minimum Altitude Chart - ICAO	AD 2.7-45
Instrument Approach Charts - ICAO	
RWY 25 ILS	AD 2.7-52
RWY 07 RNAV (GNSS)	AD 2.7-71
RWY 25 RNAV (GNSS)	AD 2.7-72
RWY 07 VOR.....	AD 2.7-81