

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/mean low temperature	1039 FT / 29.5°C / -13.8°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 Operator, 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 Operator	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	10 electric tractors, 2 diesel tractors, 41 dollies, 12 pallet dollies, 40 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, 3 forklifts, 7 self-propelled passenger stairs, 11 towed passenger stairs, 10 passenger buses, 7 passenger/crew minibuses, 2 PRM transportation vehicle, 1 ambulift vehicle, 3 aircraft towing/push-back tractors, railway station in vicinity.
2	Fuel/Oil types	Kerosene JET A1/NIL
3	Fuelling facilities/capacity	5 trucks: 2 of 18000 L, 2 of 21000 L and 1 of 30000L Kerosene storage: 796m ³ .
4	De-icing facilities	5 diesel de/anti-icing units, with liquid type II. 2 electric 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	<i>Hotels</i>	Hotels in town.
2	<i>Restaurants</i>	Restaurant, buffets and snack bar in airport terminals.
3	<i>Transportation</i>	Buses, taxis, car hire from airport.
4	<i>Medical facilities</i>	First aid on the AD, Ambulance, hospitals in town.
5	<i>Bank and Post Office</i>	In departure terminal and in town. Exchange Offices in both terminals. ATM in arrival and departure terminals.
6	<i>Tourist Office</i>	Tourist Office in terminal.
7	<i>Remarks</i>	Rent-a-car Office: Tel: +40-(0)743-645046; +40-(0)744-795466; +40-(0)745-933498; +40-(0)742-879070; +40-(0)743-022591; +40-(0)749-151028; +40-(0)749-169401; +40-(0)752-012012; +40-(0)722-522128; +40-(0)725-605171; +40-(0)732-350515.

LRCL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	<i>AD category for fire fighting</i>	CAT 7
2	<i>Rescue equipment</i>	2 vehicles with extrication equipment.
3	<i>Capability for removal of disabled aircraft</i>	Rapid Recovery MULTISLING NARROW BODY LIFTING KIT COD C RESQTEC Aircraft Recovery TRAILER SYSTEM QI30T/QI20T COMBI RESQTEC e-mail: oper@airportcluj.ro.
4	<i>Remarks</i>	NIL

LRCL AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	<i>Types of clearing equipment</i>	Mechanical: 7 trucks with plough, brush and sweep blower, 1 small equipment with plough, brush and snowblower, 1 snow blower. Chemical: 1 truck with solid/liquid de-icing material spreader, 1 truck with liquid de-icing material spreader, 1 tractor with solid de-icing material spreader.
2	<i>Clearance priorities</i>	1. RWY 07/25, emergency access road, associated TWYs and Aprons.
3	<i>Use of material for movement area surface treatment</i>	Fluids used for RWY de/anti-icing: KFOR (potassium formate). Solid materials used for RWY de/anti-icing: NAFO (sodium formate).
4	<i>Specially prepared winter runways</i>	NIL
5	<i>Remarks</i>	Information on RWY surface condition in Global Reporting Format is published by SNOWTAM. See also the snow plan in section AD 1.2. Unit of the airport operator providing information on the progress of the snow removal and the conditions of the movement area: Ground Operations Service - Tel.: +40 751 058 506;

LRCL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron designation, surface and strength	Surface: APRON 1: Concrete APRON 2: Concrete Strength: APRON 1: 66/R/B/W/T Stands: 1, 2, 7 46/R/B/W/T Stands: 3, 8, 9 123/R/B/W/T Stands: 4, 5, 6 102/R/B/W/T Stands: 23 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 39/R/A/W/T Stand: 12 102/R/B/W/T Stand: 19, 20,21,22
2	Taxiway designation, width, surface and strength	Width: TWY A, C, D, K: 18 M TWY B, E, H, J: 23 M TWY F, G: 25 M Surface: TWY A, B, C, D, E, F, G, H, J, K: Concrete Strength: TWY A: 46/R/B/W/T TWY B: 105/R/B/W/T TWY C: 94/R/B/W/T TWY D: 49/R/B/W/T TWY E: 115/R/B/W/T TWY F, H: 72/R/B/W/T TWY G: 114/R/B/W/T TWY J: 102/R/B/W/T TWY K: 123/R/B/W/T
3	ACL location and elevation	At Aprons 1026 FT
4	VOR checkpoints	NIL
5	INS checkpoints	APRON 1 INS 1: 464700.03N 0234107.21E INS 2: 464700.28N 0234108.92E INS 3: 464700.53N 0234110.62E INS 4: 464700.36N 0234115.17E INS 5: 464700.48N 0234117.52E INS 6: 464700.60N 0234119.87E INS 7: 464657.15N 0234108.02E INS 8: 464657.50N 0234110.44E INS 9: 464658.13N 0234113.94E INS 23: 464700.72N 0234122.22E 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 INS 19: 464708.71N 0234142.85E INS 20: 464707.17N 0234143.59E INS 21: 464705.64N 0234144.34E INS 22: 464704.10N 0234145.08E
6	Remarks	In emergency situation, the main area assigned as isolated aircraft position is Stand 12. In case of unavailability, the area assigned as isolated aircraft position will be established on site.

**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 at aircraft stands	Aircraft guidance to parking stand is provided by marshaller. Guidance yellow lights (LIH) to stands number: 4, 5, 6, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
2	RWY and TWY markings and LGT	RWY: - markings: Color white: designation, THR, TDZ, centre line, side stripes, aiming point, displaced THR 07; Color yellow: turnpad markings at THR 25 and THR07. - lights: centre line, edge, end, THR + WBAR, TDZ for RWY 25, turnpad at THR 25. TWY A: - markings: Color yellow: centre line, edges, intermediate holding position at the following intersection: TWY A/D, designation markings at TWY A/K intersection; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at the following intersection: TWY A/D. TWY B: - markings: Color yellow: centre line, intermediate holding position at the following intersection: TWY B/E; - lights: centre line lights, intermediate holding position lights (IHPL) at the following intersections: TWY B/E. TWY C: - markings: Color yellow: centre line, edges, intermediate holding position at the following intersection: TWY C/D/E/G; - lights: centre line lights, intermediate holding position lights (IHPL) at the following intersections: TWY C/D/E/G. TWY D: - markings: Color yellow: centre line, edges, intermediate holding position at all TWY intersections; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at all TWY intersections. TWY E: - markings: Color yellow: centre line, edges, intermediate holding position at all TWY intersections, designation markings at TWY C/D/E/G intersection; - lights: centre line lights, edge lights, intermediate holding position lights (IHPL) at all TWY intersections. TWY F: - markings: Color yellow: centre line, edges; - lights: centre line lights, edge lights. TWY G: - markings: Color yellow: centre line, edges, runway holding position, intermediate holding positions at all TWY intersections, enhanced centre line, runway designator; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. TWY H: - markings: Color yellow: centre line, edges, runway holding position, intermediate holding positions at all TWY intersections, enhanced centre line, runway designator; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. TWY J: - markings: Color yellow: centre line, edges, intermediate holding position, designation markings at all TWY intersections; - lights: centre line lights, edge lights, intermediate holding positions lights (IHPL) at all TWY intersections. TWY K: - markings: Color yellow: centre line; - lights: centre line lights.
3	Stop bars and runway guard lights	Red stop bar on TWY H and TWY G. Runway guard lights on TWY H and TWY G. STOP BAR lights shall remain continuously ON in all weather conditions, except when Cluj TWR has given approval for aircraft/vehicles to enter the runway.
4	Other RWY protection measure	NIL
5	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

In Area 2					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRCL_2	BUILDING	464505.8N 0233424.9E	1616/222 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_4	ANTENNA	464634.1N 0233534.5E	1326/121 FT	MARKED	
LRCL_6	ANTENNA	464631.0N 0233444.7E	1509/158 FT	MARKED	
LRCL_7	ANTENNA	464632.0N 0233451.2E	1435/123 FT	MARKED	
LRCL_8	POLE	464450.0N 0233319.0E	1426/113 FT	MARKED	
LRCL_9	POLE	464503.0N 0233349.0E	1394/89 FT	MARKED	
LRCL_11	ANTENNA	464610.0N 0233230.0E	1614/105 FT	MARKED/LGTD R	
LRCL_15	BUILDING	464657.6N 0234010.3E	1065/22 FT	NIL	
LRCL_17	BUILDING	464657.4N 0234008.5E	1063/19 FT	NIL	
LRCL_18	BUILDING	464657.5N 0234008.0E	1068/24 FT	NIL	
LRCL_19	BUILDING	464657.9N 0234007.5E	1060/18 FT	NIL	
LRCL_20	BUILDING	464657.5N 0234007.3E	1062/20 FT	NIL	
LRCL_27	BUILDING	464656.3N 0234005.9E	1065/26 FT	NIL	
LRCL_28	BUILDING	464656.4N 0234005.2E	1057/19 FT	NIL	
LRCL_29	BUILDING	464656.5N 0234004.7E	1051/14 FT	NIL	
LRCL_39	BUILDING	464651.7N 0233953.0E	1060/18 FT	NIL	
LRCL_40	BUILDING	464652.3N 0233952.4E	1064/23 FT	NIL	
LRCL_41	BUILDING	464652.6N 0233951.8E	1065/23 FT	NIL	
LRCL_44	BUILDING	464653.2N 0233953.1E	1061/15 FT	NIL	
LRCL_45	BUILDING	464652.9N 0233953.9E	1064/18 FT	NIL	
LRCL_46	BUILDING	464652.5N 0233954.4E	1060/13 FT	NIL	
LRCL_48	POLE	464657.1N 0234007.5E	1062/21 FT	NIL	
LRCL_49	POLE	464657.1N 0234009.2E	1062/18 FT	NIL	
LRCL_55	POLE	464656.5N 0234006.4E	1066/27 FT	NIL	
LRCL_59	POLE	464652.3N 0233954.1E	1071/29 FT	NIL	
LRCL_60	POLE	464652.6N 0233952.5E	1072/30 FT	NIL	
LRCL_61	POLE	464653.0N 0233952.9E	1076/34 FT	NIL	
LRCL_62	POLE	464653.1N 0233951.6E	1073/31 FT	NIL	
LRCL_64	POLE	464701.8N 0233937.3E	1086/36 FT	NIL	
LRCL_65	POLE	464701.9N 0233938.2E	1086/36 FT	NIL	
LRCL_66	POLE	464702.4N 0233937.4E	1086/36 FT	NIL	
LRCL_67	POLE	464653.5N 0233952.7E	1065/23 FT	NIL	
LRCL_68	POLE	464651.4N 0233946.3E	1087/46 FT	NIL	
LRCL_70	ANTENNA	464514.5N 0233505.8E	1579/138 FT	MARKED/LGTD R	
LRCL_71	BUILDING	464702.9N 0233937.0E	1077/36 FT	NIL	
LRCL_76	ANTENNA	464627.3N 0233453.4E	1433/121 FT	NIL	
LRCL_77	TREE	464657.3N 0234007.1E	1077/38 FT	NIL	
LRCL_78	TREE	464658.0N 0234008.4E	1062/22 FT	NIL	
LRCL_80	TREE	464657.9N 0234010.2E	1063/19 FT	NIL	
LRCL_81	TREE	464658.1N 0234011.3E	1072/30 FT	NIL	
LRCL_82	TREE	464658.1N 0234010.7E	1071/29 FT	NIL	
LRCL_85	BUILDING	464612.4N 0233522.7E	1406/281 FT	NIL	
LRCL_86	BUILDING	464619.1N 0233547.1E	1318/205 FT	NIL	
LRCL_87	TREE	464656.0N 0233948.3E	1073/32 FT	NIL	
LRCL_88	TREE	464655.9N 0233948.4E	1068/27 FT	NIL	
LRCL_89	TREE	464654.3N 0233951.0E	1086/46 FT	NIL	
LRCL_90	TREE	464654.1N 0233951.3E	1091/49 FT	NIL	
LRCL_91	BUILDING	464659.7N 0233946.6E	1063/24 FT	NIL	
LRCL_92	BUILDING	464701.0N 0233945.1E	1066/26 FT	NIL	
LRCL_93	ANTENNA	464610.6N 0233705.7E	1270/120 FT	MARKED	
LRCL_95	ANTENNA	464547.2N 0233458.7E	1334/88 FT	MARKED	
LRCL_97	ANTENNA	464506.7N 0233343.2E	1470/149 FT	MARKED	
LRCL_99	ANTENNA	464520.2N 0233436.6E	1576/113 FT	NIL	
LRCL_100	ANTENNA	464613.5N 0233726.1E	1268/120 FT	NIL	
LRCL_101	ANTENNA	464607.7N 0233656.4E	1283/110 FT	MARKED	
LRCL_105	POLE	464522.0N 0233405.0E	1383/126 FT	NIL	
LRCL_108	POLE	464507.0N 0233345.0E	1506/135 FT	MARKED	
LRCL_113	BUILDING	464653.1N 0233950.4E	1071/29 FT	NIL	
LRCL_114	BUILDING	464654.0N 0233948.9E	1071/29 FT	NIL	
LRCL_115	BUILDING	464653.6N 0233946.6E	1070/28 FT	NIL	
LRCL_117	BUILDING	464652.0N 0233941.7E	1081/38 FT	NIL	
LRCL_118	BUILDING	464652.2N 0233939.5E	1073/29 FT	NIL	
LRCL_119	BUILDING	464652.2N 0233938.6E	1072/28 FT	NIL	



a	b	c	d	e	f
LRCL_121	BUILDING	464651.3N 0233938.1E	1072/28 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL_122	BUILDING	464650.9N 0233928.9E	1081/37 FT	NIL	
LRCL_123	BUILDING	464651.1N 0233926.2E	1084/40 FT	NIL	
LRCL_126	BUILDING	464653.7N 0233945.3E	1070/28 FT	NIL	
LRCL_128	BUILDING	464656.3N 0233945.7E	1079/36 FT	NIL	
LRCL_129	BUILDING	464657.4N 0233943.6E	1069/26 FT	NIL	
LRCL_130	BUILDING	464657.7N 0233943.1E	1069/26 FT	NIL	
LRCL_131	BUILDING	464659.1N 0233940.9E	1087/42 FT	NIL	
LRCL_132	BUILDING	464658.7N 0233937.5E	1074/30 FT	NIL	
LRCL_133	BUILDING	464657.9N 0233934.3E	1085/41 FT	NIL	
LRCL_135	BUILDING	464659.6N 0233943.1E	1067/22 FT	NIL	
LRCL_136	BUILDING	464659.0N 0233943.5E	1065/22 FT	NIL	
LRCL_137	BUILDING	464658.6N 0233945.6E	1069/26 FT	NIL	
LRCL_138	BUILDING	464657.8N 0233945.8E	1067/24 FT	NIL	
LRCL_139	BUILDING	464657.5N 0233946.1E	1066/23 FT	NIL	
LRCL_140	BUILDING	464656.2N 0233948.3E	1064/22 FT	NIL	
LRCL_143	BUILDING	464654.7N 0233951.8E	1068/26 FT	NIL	
LRCL_144	BUILDING	464654.1N 0233951.8E	1063/21 FT	NIL	
LRCL_146	BUILDING	464655.6N 0233949.2E	1065/19 FT	NIL	
LRCL_147	BUILDING	464656.2N 0233939.5E	1076/32 FT	NIL	
LRCL_148	BUILDING	464656.8N 0233944.4E	1076/33 FT	NIL	
LRCL_152	BUILDING	464653.0N 0233940.7E	1072/28 FT	NIL	
LRCL_157	BUILDING	464654.7N 0233944.9E	1083/40 FT	NIL	
LRCL_161	BUILDING	464655.6N 0233937.4E	1071/27 FT	NIL	
LRCL_162	BUILDING	464620.6N 0233747.8E	1261/132 FT	NIL	
LRCL_163	BUILDING	464525.1N 0233240.1E	1525/280 FT	LGTD R	
LRCL_164	BUILDING	464654.7N 0233942.9E	1075/31 FT	NIL	
LRCL_165	POLE	464653.5N 0233952.1E	1073/31 FT	NIL	
LRCL_166	POLE	464654.1N 0233951.1E	1072/30 FT	NIL	
LRCL_167	POLE	464653.8N 0233950.5E	1075/33 FT	NIL	
LRCL_168	POLE	464654.4N 0233949.5E	1072/30 FT	NIL	
LRCL_169	POLE	464654.8N 0233949.9E	1072/30 FT	NIL	
LRCL_170	POLE	464655.4N 0233948.9E	1072/30 FT	NIL	
LRCL_171	POLE	464655.7N 0233948.6E	1067/26 FT	NIL	
LRCL_172	POLE	464656.6N 0233950.4E	1067/27 FT	NIL	
LRCL_173	POLE	464656.1N 0233947.8E	1073/30 FT	NIL	
LRCL_174	POLE	464655.7N 0233947.2E	1072/30 FT	NIL	
LRCL_175	POLE	464656.8N 0233946.6E	1078/35 FT	NIL	
LRCL_176	POLE	464656.4N 0233946.2E	1077/35 FT	NIL	
LRCL_177	POLE	464657.1N 0233944.9E	1078/35 FT	NIL	
LRCL_178	POLE	464657.6N 0233945.3E	1078/35 FT	NIL	
LRCL_179	POLE	464657.8N 0233943.8E	1078/34 FT	NIL	
LRCL_180	POLE	464658.2N 0233944.2E	1078/35 FT	NIL	
LRCL_181	POLE	464658.8N 0233943.3E	1079/35 FT	NIL	
LRCL_182	POLE	464658.3N 0233942.7E	1079/35 FT	NIL	
LRCL_183	POLE	464659.1N 0233941.7E	1080/36 FT	NIL	
LRCL_184	POLE	464659.5N 0233942.3E	1080/36 FT	NIL	
LRCL_186	POLE	464659.5N 0233941.1E	1080/35 FT	NIL	
LRCL_187	POLE	464659.2N 0233939.3E	1073/28 FT	NIL	
LRCL_188	POLE	464658.9N 0233938.2E	1073/28 FT	NIL	
LRCL_190	POLE	464659.9N 0233940.3E	1083/36 FT	NIL	
LRCL_191	POLE	464700.0N 0233941.2E	1081/35 FT	NIL	
LRCL_192	POLE	464700.6N 0233939.3E	1085/36 FT	NIL	
LRCL_193	POLE	464700.9N 0233939.8E	1083/35 FT	NIL	
LRCL_194	POLE	464701.3N 0233939.1E	1085/35 FT	NIL	
LRCL_195	POLE	464655.0N 0233946.4E	1069/27 FT	NIL	
LRCL_196	POLE	464654.0N 0233946.0E	1070/27 FT	NIL	
LRCL_197	POLE	464653.0N 0233944.4E	1070/27 FT	NIL	
LRCL_198	POLE	464652.8N 0233945.0E	1070/27 FT	NIL	
LRCL_199	POLE	464652.9N 0233942.6E	1069/26 FT	NIL	
LRCL_200	POLE	464652.9N 0233941.1E	1070/26 FT	NIL	
LRCL_201	POLE	464652.8N 0233939.4E	1071/27 FT	NIL	



a	b	c	d	e	f
LRCL 204	POLE	464654.3N 0233950.9E	1069/27 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL 205	POLE	464655.1N 0233948.4E	1073/30 FT	NIL	
LRCL 206	ANTENNA	464653.5N 0233942.8E	1086/43 FT	NIL	
LRCL 207	SIGN	464655.0N 0233948.1E	1069/27 FT	NIL	
LRCL 211	TREE	464658.9N 0233938.3E	1087/44 FT	NIL	
LRCL 212	TREE	464656.7N 0233952.8E	1060/22 FT	NIL	
LRCL 213	TREE	464656.4N 0233953.1E	1066/28 FT	NIL	
LRCL 221	BUILDING	464604.8N 0233554.8E	1280/153 FT	MARKED	
LRCL 224	ANTENNA	464758.5N 0234653.3E	1558/75 FT	MARKED/LGTD R	
LRCL 225	ANTENNA	464800.6N 0234714.9E	1572/20 FT	MARKED/LGTD R	
LRCL 253	BUILDING	464737.3N 0234317.9E	1102/85 FT	NIL	
LRCL 295	POLE	464657.6N 0234113.8E	1086/61 FT	LGTD R	
LRCL 296	BUILDING	464657.4N 0234115.3E	1080/50 FT	LGTD R	
LRCL 299	POLE	464657.0N 0234109.1E	1087/61 FT	LGTD R	
LRCL 300	BUILDING	464656.3N 0234112.7E	1108/80 FT	LGTD R	
LRCL 332	POLE	464704.1N 0234133.3E	1097/69 FT	LGTD R	
LRCL 335	STACK	464657.0N 0234127.5E	1081/54 FT	MARKED	
LRCL 336	STACK	464657.2N 0234127.5E	1081/54 FT	MARKED	
LRCL 337	STACK	464657.2N 0234127.5E	1081/54 FT	MARKED	
LRCL 338	STACK	464657.3N 0234127.4E	1081/54 FT	MARKED	
LRCL 340	POLE	464653.6N 0234110.4E	1094/66 FT	NIL	
LRCL 433	ANTENNA	464644.2N 0234051.8E	1141/89 FT	MARKED	
LRCL 434	ANTENNA	464656.2N 0234113.0E	1109/82 FT	MARKED	
LRCL 435	STACK	464648.7N 0234042.3E	1137/98 FT	MARKED/LGTD R	
LRCL 436	ANTENNA	464640.4N 0233946.6E	1172/122 FT	MARKED/LGTD R	
LRCL 437	BUILDING	464648.1N 0234039.9E	1116/65 FT	NIL	
LRCL 443	ANTENNA	464651.9N 0234114.1E	1114/82 FT	NIL	
LRCL 444	ANTENNA	464651.3N 0234109.4E	1105/75 FT	NIL	
LRCL 445	BUILDING	464652.1N 0234119.7E	1078/49 FT	NIL	
LRCL 451	STACK	464650.2N 0234052.3E	1095/65 FT	MARKED/LGTD R	
LRCL 452	STACK	464651.8N 0234153.3E	1137/112 FT	MARKED/LGTD R	
LRCL 454	POLE	464649.3N 0234040.8E	1096/62 FT	MARKED	
LRCL 455	POLE	464649.1N 0234035.0E	1101/64 FT	MARKED	
LRCL 456	POLE	464649.0N 0234029.4E	1100/57 FT	MARKED	
LRCL 457	POLE	464649.0N 0234024.6E	1099/59 FT	MARKED	
LRCL 458	POLE	464649.3N 0234020.8E	1097/55 FT	MARKED	
LRCL 461	SIGN	464653.5N 0234111.7E	1096/67 FT	NIL	
LRCL 465	TREE	464656.8N 0234145.1E	1077/50 FT	NIL	
LRCL 466	TREE	464656.8N 0234144.3E	1078/50 FT	NIL	
LRCL 467	TREE	464656.0N 0234142.8E	1077/50 FT	NIL	
LRCL 472	ANTENNA	464656.4N 0234112.9E	1108/79 FT	NIL	
LRCL 473	ANTENNA	464656.1N 0234110.7E	1099/71 FT	NIL	
LRCL 477	POLE	464600.1N 0233744.4E	1270/136 FT	NIL	
LRCL 478	SIGN	464650.3N 0234019.7E	1095/54 FT	NIL	
LRCL 487	POLE	464740.3N 0233804.6E	1201/146 FT	NIL	
LRCL 488	ANTENNA	464740.8N 0233907.8E	1141/94 FT	NIL	
LRCL 490	WATER TOWER	464711.5N 0233801.1E	1217/154 FT	MARKED	
LRCL 491	WATER TOWER	464728.8N 0233753.1E	1200/142 FT	MARKED	
LRCL 492	WATER TOWER	464735.3N 0234052.8E	1095/67 FT	MARKED	
LRCL 494	ANTENNA	464735.7N 0234050.6E	1112/84 FT	NIL	
LRCL 496	POLE	464843.1N 0234356.0E	1167/168 FT	NIL	
LRCL 497	POLE	464835.6N 0234342.0E	1187/175 FT	NIL	
LRCL 498	POLE	464833.6N 0234330.3E	1173/154 FT	NIL	
LRCL 499	POLE	464831.6N 0234319.1E	1162/154 FT	NIL	
LRCL 500	POLE	464828.9N 0234303.3E	1175/163 FT	NIL	
LRCL 501	POLE	464826.8N 0234251.6E	1209/187 FT	NIL	
LRCL 502	POLE	464825.9N 0234233.9E	1190/169 FT	NIL	
LRCL 503	POLE	464824.9N 0234215.9E	1207/180 FT	NIL	
LRCL 504	POLE	464820.3N 0234207.0E	1207/168 FT	NIL	
LRCL 505	POLE	464814.9N 0234156.4E	1291/188 FT	NIL	
LRCL 506	POLE	464755.3N 0233905.6E	1224/151 FT	NIL	
LRCL 507	POLE	464754.2N 0233854.4E	1248/177 FT	NIL	
LRCL 508	POLE	464746.3N 0233840.5E	1227/167 FT	NIL	
LRCL 509	POLE	464746.1N 0233834.5E	1225/167 FT	NIL	
LRCL 510	POLE	464745.5N 0233824.4E	1225/167 FT	NIL	
LRCL 511	POLE	464757.1N 0234028.0E	1225/161 FT	NIL	
LRCL 512	POLE	464758.4N 0234038.2E	1220/152 FT	NIL	
LRCL 513	POLE	464756.5N 0233917.4E	1216/141 FT	NIL	
LRCL 514	POLE	464759.7N 0234048.9E	1231/167 FT	NIL	
LRCL 515	POLE	464759.2N 0234105.0E	1220/163 FT	NIL	
LRCL 516	POLE	464758.9N 0234115.4E	1207/161 FT	NIL	
LRCL 517	POLE	464801.6N 0234130.5E	1214/177 FT	NIL	
LRCL 518	POLE	464755.8N 0234018.3E	1211/160 FT	NIL	
LRCL 519	POLE	464754.2N 0234005.5E	1230/142 FT	NIL	



a	b	c	d	e	f
LRCL 520	POLE	464752.5N 0233951.4E	1224/142 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL 521	POLE	464750.9N 0233938.9E	1240/161 FT	NIL	
LRCL 522	POLE	464753.7N 0233927.8E	1248/178 FT	NIL	
LRCL 523	POLE	464808.4N 0234143.7E	1342/161 FT	NIL	
LRCL 526	ANTENNA	464717.9N 0233733.4E	1182/115 FT	NIL	
LRCL 529	ANTENNA	464744.2N 0233812.1E	1177/115 FT	NIL	
LRCL 531	BUILDING	464652.7N 0233745.4E	1193/117 FT	NIL	
LRCL 533	STACK	464736.6N 0233836.7E	1155/105 FT	MARKED/LGTD R	
LRCL 534	STACK	464736.6N 0233836.2E	1154/104 FT	MARKED/LGTD R	
LRCL 535	STACK	464734.9N 0233812.8E	1217/162 FT	MARKED/LGTD R	
LRCL 536	ANTENNA	464711.9N 0233932.4E	1148/105 FT	MARKED/LGTD R	
LRCL 537	ANTENNA	464717.6N 0233913.1E	1138/91 FT	MARKED/LGTD R	
LRCL 538	ANTENNA	464710.7N 0233926.7E	1153/111 FT	MARKED/LGTD R	
LRCL 540	ANTENNA	464652.4N 0233734.5E	1201/124 FT	MARKED/LGTD R	
LRCL 543	ANTENNA	464741.7N 0233908.7E	1109/80 FT	MARKED/LGTD R	
LRCL 544	ANTENNA	464735.9N 0234051.6E	1119/92 FT	NIL	
LRCL 545	ANTENNA	464736.5N 0234052.8E	1118/91 FT	NIL	
LRCL 546	ANTENNA	464737.8N 0234056.6E	1123/94 FT	NIL	
LRCL 547	ANTENNA	464737.0N 0234057.1E	1110/82 FT	NIL	
LRCL 548	BUILDING	464726.9N 0233825.9E	1173/117 FT	LGTD R	
LRCL 549	POLE	464743.8N 0233948.8E	1165/117 FT	NIL	
LRCL 557	ANTENNA	464847.9N 0233727.1E	1966/198 FT	MARKED/LGTD R	
LRCL 561	ANTENNA	464649.2N 0233703.4E	1252/171 FT	MARKED	
LRCL 563	ANTENNA	464809.3N 0233553.7E	1415/105 FT	MARKED/LGTD R	
LRCL 569	ANTENNA	464518.2N 0233702.2E	1369/78 FT	NIL	
LRCL 658	BUILDING	464717.4N 0234134.8E	1038/17 FT	NIL	
LRCL 660	ANTENNA	464717.6N 0234134.9E	1041/20 FT	NIL	
LRCL 661	ANTENNA	464717.8N 0234134.9E	1071/49 FT	NIL	
LRCL 662	ANTENNA	464718.8N 0234138.7E	1042/21 FT	NIL	
LRCL 666	POLE	464706.5N 0234132.1E	1096/69 FT	LGTD R	
LRCL 676	BUILDING	464706.6N 0233927.3E	1179/137 FT	NIL	
LRCL 684	ANTENNA	464727.2N 0234137.9E	1058/36 FT	NIL	
LRCL 688	BUILDING	464705.7N 0233923.5E	1134/78 FT	NIL	
LRCL 689	ANTENNA	464311.2N 0233650.9E	2494/99 FT	NIL	
LRCL 690	ANTENNA	464249.4N 0233622.7E	2597/152 FT	NIL	
LRCL 691	ANTENNA	464520.0N 0233544.6E	1570/151 FT	NIL	
LRCL 695	ANTENNA	464252.1N 0233832.4E	2669/215 FT	MARKED/LGTD R	
LRCL 696	ANTENNA	464246.4N 0233822.5E	2596/131 FT	MARKED/LGTD R	
LRCL 697	ANTENNA	464247.2N 0233824.7E	2698/233 FT	MARKED/LGTD R	
LRCL 698	NAVAID	464306.6N 0233602.6E	2503/52 FT	MARKED/LGTD R	
LRCL 724	ANTENNA	464308.0N 0233645.0E	2504/106 FT	NIL	
LRCL 725	ANTENNA	464248.5N 0233827.6E	2675/217 FT	NIL	
LRCL 726	ANTENNA	464638.0N 0233500.0E	1398/118 FT	NIL	
LRCL 759	BUILDING	464443.2N 0233526.9E	1728/118 FT	NIL	
LRCL 760	BUILDING	464444.4N 0233527.4E	1729/119 FT	NIL	
LRCL 1090	ANTENNA	464316.8N 0233720.0E	2537/96 FT	NIL	
LRCL 1091	SIGN	464310.4N 0233642.8E	2456/67 FT	NIL	
LRCL 1108	ANTENNA	464251.2N 0233832.2E	3236/775 FT	MARKED/LGTD R	
LRCL 1109	NAVAID	464701.0N 0234017.0E	1061/25 FT	NIL	
LRCL 1117	NAVAID	464718.3N 0234133.9E	1046/25 FT	MARKED/LGTD R	
LRCL 1127	POLE	464709.0N 0234140.4E	1095/69 FT	LGTD R	
LRCL 1128	POLE	464706.5N 0234141.4E	1095/68 FT	LGTD R	
LRCL 1129	POLE	464712.8N 0234139.9E	1091/67 FT	LGTD R	
LRCL 1130	POLE	464703.3N 0234136.9E	1095/67 FT	LGTD R	
LRCL 1132	POLE	464542.7N 0233620.4E	1265/56 FT	NIL	
LRCL 1133	BUILDING	464502.5N 0233427.6E	1573/136 FT	NIL	
LRCL 1137	BUILDING	464638.4N 0233722.7E	1194/83 FT	NIL	
LRCL 1142	POLE	464636.8N 0233802.5E	1198/108 FT	NIL	
LRCL 1145	POLE	464749.3N 0233943.4E	1109/54 FT	NIL	
LRCL 1146	POLE	464727.7N 0233712.5E	1230/160 FT	NIL	
LRCL 1152	POLE	464520.7N 0233634.6E	1385/53 FT	NIL	
LRCL 1153	POLE	464710.6N 0233837.9E	1125/62 FT	NIL	
LRCL 1160	POLE	464509.8N 0233300.6E	1448/135 FT	NIL	
LRCL 1175	POLE	464651.7N 0234153.1E	1152/125 FT	NIL	
LRCL 1177	POLE	464507.1N 0233436.4E	1625/115 FT	NIL	
LRCL 1179	BUILDING	464658.0N 0233940.4E	1075/31 FT	NIL	
LRCL 1181	BUILDING	464648.4N 0233942.5E	1086/41 FT	NIL	
LRCL 1183	POLE	464606.1N 0233607.4E	1304/158 FT	NIL	
LRCL 1191	ANTENNA	464434.5N 0233348.2E	1675/111 FT	NIL	
LRCL 1195	POLE	464509.7N 0233619.6E	1563/126 FT	NIL	
LRCL 1197	ANTENNA	464440.0N 0233336.1E	1702/111 FT	NIL	
LRCL 1198	POLE	464639.6N 0233647.7E	1240/145 FT	NIL	
LRCL 1200	ANTENNA	465041.1N 0234132.5E	1372/55 FT	NIL	



a	b	c	d	e	f
LRCL 1231	BUILDING	464632.4N 0233343.8E	1373/144 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL 1232	BUILDING	464634.0N 0233350.6E	1399/51 FT	NIL	
LRCL 1233	ANTENNA	464634.2N 0233356.4E	1456/107 FT	NIL	
LRCL 1236	ANTENNA	464638.9N 0233420.7E	1393/51 FT	NIL	
LRCL 1237	ANTENNA	464629.4N 0233432.6E	1479/141 FT	MARKED/LGTD R	
LRCL 1238	ANTENNA	464627.3N 0233454.5E	1483/196 FT	LGTD R	
LRCL 1239	POLE	464644.6N 0233436.4E	1371/120 FT	LGTD R	
LRCL 1240	POLE	464644.5N 0233441.1E	1371/120 FT	LGTD R	
LRCL 1241	POLE	464726.7N 0233320.2E	1459/58 FT	NIL	
LRCL 1242	POLE	464727.4N 0233321.7E	1452/50 FT	NIL	
LRCL 1244	POLE	464728.9N 0233324.8E	1464/63 FT	NIL	
LRCL 1245	POLE	464739.9N 0233347.7E	1516/60 FT	NIL	
LRCL 1246	POLE	464742.7N 0233353.5E	1531/53 FT	NIL	
LRCL 1247	ANTENNA	464800.2N 0233559.7E	1376/108 FT	MARKED/LGTD R	
LRCL 1248	ANTENNA	464803.2N 0233600.9E	1363/102 FT	MARKED/LGTD R	
LRCL 1249	BUILDING	465026.2N 0233421.3E	1637/77 FT	NIL	
LRCL 1250	CRANE	465023.0N 0233420.2E	1649/117 FT	MARKED/LGTD R	
LRCL 1251	CRANE	465030.1N 0233412.0E	1685/114 FT	MARKED/LGTD R	
LRCL 1252	ANTENNA	464920.7N 0233435.2E	1684/86 FT	MARKED/LGTD R	
LRCL 1253	BUILDING	464914.2N 0233450.7E	1628/85 FT	NIL	
LRCL 1254	ANTENNA	464923.2N 0233456.0E	1595/99 FT	MARKED/LGTD R	
LRCL 1256	CRANE	464925.2N 0233430.5E	1711/114 FT	MARKED/LGTD R	
LRCL 1257	BUILDING	464650.4N 0233538.8E	1334/239 FT	NIL	
LRCL 1258	BUILDING	464632.9N 0233538.6E	1274/106 FT	NIL	
LRCL 1259	CRANE	464637.4N 0233538.5E	1277/109 FT	MARKED/LGTD R	
LRCL 1260	STACK	464734.8N 0233805.2E	1229/166 FT	MARKED	
LRCL 1261	STACK	464734.8N 0233807.7E	1227/164 FT	MARKED	
LRCL 1262	BUILDING	464735.8N 0233817.6E	1160/98 FT	NIL	
LRCL 1263	POLE	464748.3N 0233847.1E	1169/103 FT	NIL	
LRCL 1264	POLE	464749.6N 0233846.5E	1231/161 FT	NIL	
LRCL 1265	POLE	464746.9N 0233903.2E	1167/115 FT	NIL	
LRCL 1266	POLE	464743.4N 0233904.1E	1134/83 FT	NIL	
LRCL 1267	POLE	464739.5N 0233904.2E	1139/89 FT	NIL	
LRCL 1268	POLE	464746.9N 0233904.7E	1166/114 FT	NIL	
LRCL 1269	STACK	464745.5N 0233949.2E	1130/82 FT	NIL	
LRCL 1270	BUILDING	464738.6N 0233952.7E	1126/84 FT	NIL	
LRCL 1271	BUILDING	464729.3N 0233953.0E	1119/78 FT	NIL	
LRCL 1272	TANK	464750.1N 0234104.3E	1094/58 FT	NIL	
LRCL 1273	TANK	464738.7N 0234059.6E	1084/51 FT	NIL	
LRCL 1274	TANK	464725.7N 0234032.7E	1084/49 FT	NIL	
LRCL 1275	POLE	464735.1N 0233857.9E	1167/119 FT	MARKED	
LRCL 1276	POLE	464734.4N 0233855.0E	1161/112 FT	MARKED	
LRCL 1277	POLE	464730.9N 0233850.2E	1130/81 FT	MARKED	
LRCL 1278	POLE	464728.3N 0233844.0E	1165/108 FT	MARKED	
LRCL 1279	POLE	464726.5N 0233842.1E	1133/76 FT	MARKED	
LRCL 1280	POLE	464723.4N 0233830.3E	1188/129 FT	MARKED	
LRCL 1281	STACK	464712.6N 0233758.0E	1214/146 FT	LGTD R	
LRCL 1282	STACK	464713.0N 0233758.0E	1228/160 FT	LGTD R	
LRCL 1283	BUILDING	464658.0N 0233802.9E	1160/97 FT	NIL	
LRCL 1284	BUILDING	464703.8N 0233852.3E	1126/68 FT	NIL	
LRCL 1285	STACK	464701.8N 0233919.2E	1117/64 FT	NIL	
LRCL 1286	BUILDING	464701.1N 0233918.3E	1095/42 FT	NIL	
LRCL 1287	TREE	464700.9N 0233918.9E	1103/50 FT	NIL	
LRCL 1288	BUILDING	464657.0N 0233921.1E	1090/37 FT	NIL	
LRCL 1290	BUILDING	464658.9N 0233941.4E	1087/50 FT	NIL	
LRCL 1298	POLE	464425.7N 0233417.2E	1496/97 FT	NIL	
LRCL 1299	POLE	464426.4N 0233417.8E	1504/100 FT	NIL	
LRCL 1300	POLE	464428.8N 0233410.6E	1554/100 FT	NIL	
LRCL 1301	POLE	464428.0N 0233410.4E	1543/96 FT	NIL	
LRCL 1302	BUILDING	464433.9N 0233352.9E	1589/104 FT	NIL	
LRCL 1303	POLE	464437.5N 0233348.6E	1657/100 FT	NIL	
LRCL 1304	BUILDING	464436.8N 0233352.7E	1586/93 FT	NIL	
LRCL 1305	POLE	464443.4N 0233333.8E	1662/99 FT	NIL	
LRCL 1306	POLE	464444.1N 0233332.2E	1644/98 FT	NIL	
LRCL 1307	POLE	464440.9N 0233340.3E	1665/102 FT	NIL	
LRCL 1308	POLE	464439.9N 0233340.0E	1662/102 FT	NIL	
LRCL 1309	ANTENNA	464456.9N 0233304.3E	1499/141 FT	NIL	
LRCL 1310	CRANE	464604.5N 0233556.4E	1347/221 FT	NIL	
LRCL 1311	BUILDING	464555.6N 0233619.5E	1284/91 FT	NIL	
LRCL 1312	BUILDING	464522.8N 0233657.9E	1398/119 FT	NIL	
LRCL 1313	BUILDING	464607.1N 0233632.0E	1260/111 FT	NIL	
LRCL 1314	BUILDING	464525.4N 0233326.9E	1412/184 FT	NIL	
LRCL 1315	BUILDING	464450.0N 0233437.6E	1642/195 FT	LGTD R	



a	b	c	d	e	f
LRCL 1316	ANTENNA	464514.1N 0233452.1E	1670/192 FT	LGTD R	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL 1317	ANTENNA	464518.4N 0233454.9E	1600/150 FT	LGTD R	
LRCL 1318	BUILDING	464516.4N 0233531.4E	1541/98 FT	NIL	
LRCL 1319	BUILDING	464454.9N 0233524.4E	1664/95 FT	NIL	
LRCL 1320	ANTENNA	464447.2N 0233518.9E	1695/110 FT	LGTD R	
LRCL 1321	POLE	464411.4N 0233529.3E	1852/100 FT	NIL	
LRCL 1322	POLE	464411.8N 0233537.4E	1830/97 FT	NIL	
LRCL 1323	POLE	464412.1N 0233540.2E	1833/99 FT	NIL	
LRCL 1324	BUILDING	464311.9N 0233522.0E	2279/90 FT	NIL	
LRCL 1325	POLE	464318.2N 0233513.9E	2287/89 FT	NIL	
LRCL 1326	POLE	464327.6N 0233517.4E	2110/83 FT	NIL	
LRCL 1327	POLE	464333.6N 0233519.6E	2080/82 FT	NIL	
LRCL 1328	POLE	464352.9N 0233516.3E	1957/83 FT	NIL	
LRCL 1329	POLE	464410.1N 0233506.9E	1868/115 FT	NIL	
LRCL 1330	POLE	464410.7N 0233517.7E	1911/118 FT	NIL	
LRCL 1331	BUILDING	464550.4N 0233554.8E	1291/88 FT	NIL	
LRCL 1332	BUILDING	464527.8N 0233434.2E	1522/91 FT	NIL	
LRCL 1333	BUILDING	464526.7N 0233439.4E	1515/88 FT	NIL	
LRCL 1334	ANTENNA	464517.6N 0233430.2E	1620/153 FT	LGTD R	
LRCL 1335	BUILDING	464535.7N 0233503.6E	1440/105 FT	NIL	
LRCL 1336	ANTENNA	464543.4N 0233457.1E	1365/109 FT	NIL	
LRCL 1337	BUILDING	464515.0N 0233553.1E	1529/102 FT	NIL	
LRCL 1338	CRANE	464516.5N 0233557.6E	1536/116 FT	NIL	
LRCL 1339	ANTENNA	464304.3N 0233626.1E	2507/89 FT	LGTD R	
LRCL 1340	POLE	464304.8N 0233605.0E	2524/69 FT	NIL	
LRCL 1341	POLE	464304.4N 0233610.0E	2547/90 FT	NIL	
LRCL 1342	POLE	464304.2N 0233613.5E	2536/76 FT	NIL	
LRCL 1343	POLE	464303.4N 0233614.0E	2534/72 FT	NIL	
LRCL 1344	POLE	464239.7N 0233901.4E	2501/82 FT	NIL	
LRCL 1345	POLE	464234.9N 0233905.3E	2490/117 FT	NIL	
LRCL 1346	BUILDING	464433.8N 0233545.6E	1692/106 FT	NIL	
LRCL 1347	POLE	464429.4N 0233542.7E	1704/102 FT	NIL	
LRCL 1348	POLE	464429.9N 0233540.6E	1705/103 FT	NIL	
LRCL 1349	POLE	464430.0N 0233539.8E	1705/103 FT	NIL	
LRCL 1350	POLE	464413.2N 0233600.9E	1757/99 FT	NIL	
LRCL 1351	CRANE	464421.4N 0233606.0E	1716/99 FT	NIL	
LRCL 1352	POLE	464421.9N 0233612.5E	1710/102 FT	NIL	
LRCL 1353	POLE	464415.9N 0233644.9E	1710/99 FT	NIL	
LRCL 1354	POLE	464415.6N 0233643.3E	1717/96 FT	NIL	
LRCL 1355	POLE	464415.1N 0233634.1E	1718/99 FT	NIL	
LRCL 1356	POLE	464416.5N 0233638.7E	1721/97 FT	NIL	
LRCL 1357	BUILDING	464459.4N 0233601.4E	1594/99 FT	NIL	
LRCL 1358	BUILDING	464537.9N 0233612.7E	1292/74 FT	NIL	
LRCL 1359	BUILDING	464630.3N 0233744.6E	1212/134 FT	NIL	
LRCL 1360	POLE	464755.2N 0234555.3E	1271/36 FT	NIL	MARKED/LGTD R
LRCL 1361	POLE	464754.9N 0234557.8E	1259/36 FT	NIL	
LRCL 1362	POLE	464755.6N 0234554.7E	1273/37 FT	NIL	
LRCL 1363	POLE	464757.9N 0234554.4E	1263/37 FT	NIL	
LRCL 1364	POLE	464758.4N 0234555.1E	1256/36 FT	NIL	
LRCL 1366	POLE	464759.8N 0234551.6E	1238/33 FT	NIL	
LRCL 1367	POLE	464759.7N 0234704.7E	1550/35 FT	NIL	
LRCL 1368	POLE	464759.1N 0234701.2E	1528/35 FT	NIL	
LRCL 1369	POLE	464759.9N 0234552.6E	1244/33 FT	NIL	
LRCL 1370	POLE	464800.8N 0234553.6E	1245/32 FT	NIL	
LRCL 1372	BUILDING	464752.3N 0234555.5E	1271/27 FT	NIL	
LRCL 1373	BUILDING	464750.0N 0234553.8E	1287/27 FT	NIL	
LRCL 1374	BUILDING	464750.8N 0234554.4E	1283/27 FT	NIL	
LRCL 1376	BUILDING	464751.1N 0234554.6E	1281/27 FT	NIL	
LRCL 1379	ANTENNA	464758.7N 0234655.8E	1570/100 FT	MARKED/LGTD R	
LRCL 1380	ANTENNA	464758.4N 0234710.6E	1568/45 FT	MARKED/LGTD R	
LRCL 1381	BUILDING	464807.0N 0234554.6E	1275/55 FT	NIL	
LRCL 1382	BUILDING	464807.0N 0234553.0E	1276/56 FT	NIL	
LRCL 1383	BUILDING	464806.9N 0234551.1E	1260/39 FT	NIL	
LRCL 1384	BUILDING	464806.0N 0234552.1E	1263/42 FT	NIL	
LRCL 1385	BUILDING	464805.2N 0234553.0E	1261/41 FT	NIL	
LRCL 1391	ANTENNA	464802.7N 0234935.0E	1565/162 FT	MARKED/LGTD R	MARKED/LGTD R
LRCL 1404	POLE	464644.5N 0233959.2E	1112/64 FT	NIL	
LRCL 1405	POLE	464551.8N 0233810.7E	1219/123 FT	NIL	
LRCL 1406	POLE	464552.9N 0233814.9E	1204/107 FT	NIL	
LRCL 1407	POLE	464550.1N 0233803.6E	1199/102 FT	NIL	
LRCL 1408	ANTENNA	465200.2N 0234827.3E	1506/451 FT	MARKED/LGTD R	MARKED/LGTD R
LRCL 1409	ANTENNA	465206.1N 0234837.8E	1505/449 FT	MARKED/LGTD R	
LRCL 1410	ANTENNA	465203.0N 0234827.5E	1508/452 FT	MARKED/LGTD R	



a	b	c	d	e	f
LRCL 1411	BUILDING	464642.2N 0234016.7E	1100/53 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL 1412	CRANE	464640.0N 0234023.9E	1198/150 FT	NIL	
LRCL 1413	CRANE	464641.9N 0234022.3E	1172/124 FT	NIL	
LRCL 1414	SIGN	464640.6N 0233852.7E	1130/64 FT	NIL	
LRCL 1415	SIGN	464644.1N 0233852.6E	1139/73 FT	NIL	
LRCL 1416	CRANE	464645.2N 0233842.6E	1187/118 FT	NIL	
LRCL 1417	BUILDING	464646.0N 0233843.4E	1144/74 FT	NIL	
LRCL 1418	CRANE	464642.6N 0234124.2E	1119/92 FT	NIL	
LRCL 1419	CRANE	464642.0N 0234121.6E	1165/138 FT	NIL	
LRCL 1420	BUILDING	464642.5N 0234120.5E	1088/61 FT	NIL	
LRCL 1421	POLE	464504.9N 0233729.5E	1313/98 FT	NIL	
LRCL 1422	ANTENNA	464640.4N 0233946.6E	1164/111 FT	MARKED/LGTD R	
LRCL 1423	BUILDING	464650.1N 0233825.2E	1179/107 FT	NIL	
LRCL 1426	BUILDING	464634.2N 0233814.6E	1190/106 FT	NIL	
LRCL 1428	BUILDING	464634.7N 0233813.4E	1190/105 FT	NIL	
LRCL 1429	CRANE	464608.9N 0233817.2E	1229/146 FT	NIL	
LRCL 1430	CRANE	464609.6N 0233822.0E	1212/149 FT	NIL	
LRCL 1431	BUILDING	464610.3N 0233821.5E	1167/104 FT	NIL	
LRCL 1432	ANTENNA	464656.1N 0234110.7E	1099/72 FT	NIL	
LRCL 1433	POLE	464502.3N 0233726.8E	1328/100 FT	NIL	
LRCL 1434	BUILDING	464606.4N 0233815.7E	1176/77 FT	NIL	
LRCL 1435	BUILDING	464605.9N 0233812.5E	1171/72 FT	NIL	
LRCL 1436	BUILDING	464603.8N 0233814.7E	1211/112 FT	NIL	
LRCL 1437	BUILDING	464559.9N 0233818.8E	1212/113 FT	NIL	
LRCL 1438	BUILDING	464600.3N 0233814.6E	1212/113 FT	NIL	
LRCL 1439	POLE	464500.7N 0233737.2E	1310/112 FT	NIL	
LRCL 1440	POLE	464454.1N 0233718.6E	1330/98 FT	NIL	
LRCL 1441	BUILDING	464557.9N 0233813.3E	1213/114 FT	NIL	
LRCL 1442	POLE	464456.0N 0233745.6E	1324/111 FT	NIL	
LRCL 1443	ANTENNA	464600.0N 0233738.8E	1284/130 FT	NIL	
LRCL 1444	BUILDING	464559.4N 0233735.8E	1264/109 FT	NIL	
LRCL 1445	BUILDING	464558.9N 0233733.1E	1266/107 FT	NIL	
LRCL 1446	BUILDING	464603.4N 0233722.8E	1284/117 FT	NIL	
LRCL 1447	BUILDING	464557.8N 0233713.2E	1291/117 FT	NIL	
LRCL 1448	BUILDING	464545.3N 0233652.8E	1310/120 FT	NIL	
LRCL 1449	BUILDING	464548.3N 0233652.2E	1297/107 FT	NIL	
LRCL 1450	BUILDING	464548.8N 0233650.0E	1306/116 FT	NIL	
LRCL 1451	BUILDING	464545.9N 0233654.8E	1306/116 FT	NIL	
LRCL 1452	BUILDING	464546.5N 0233656.8E	1301/112 FT	NIL	
LRCL 1453	BUILDING	464547.9N 0233655.6E	1299/110 FT	NIL	
LRCL 1454	BUILDING	464520.1N 0233723.0E	1267/95 FT	NIL	
LRCL 1455	POLE	464457.5N 0233747.4E	1275/80 FT	NIL	
LRCL 1456	POLE	464502.3N 0233753.0E	1250/96 FT	NIL	
LRCL 1458	POLE	464517.6N 0233754.8E	1243/117 FT	NIL	
LRCL 1459	POLE	464526.2N 0233754.0E	1227/102 FT	NIL	
LRCL 1460	ANTENNA	464612.2N 0233604.0E	1305/193 FT	MARKED/LGTD R	
LRCL 1461	BUILDING	464605.9N 0233607.5E	1262/124 FT	NIL	
LRCL 1462	BUILDING	464607.7N 0233645.7E	1243/70 FT	NIL	
LRCL 1463	BUILDING	464607.6N 0233643.0E	1243/71 FT	NIL	
LRCL 1464	BUILDING	464603.7N 0233706.6E	1268/107 FT	NIL	
LRCL 1466	BUILDING	464604.8N 0233705.8E	1261/100 FT	NIL	
LRCL 1467	BUILDING	464605.8N 0233704.3E	1258/96 FT	NIL	
LRCL 1469	BUILDING	464602.5N 0233710.8E	1283/119 FT	NIL	
LRCL 1470	BUILDING	464608.2N 0233711.5E	1272/130 FT	NIL	
LRCL 1471	SPIRE	464610.1N 0233710.8E	1293/154 FT	NIL	
LRCL 1472	BUILDING	464609.4N 0233710.3E	1268/126 FT	NIL	
LRCL 1474	ANTENNA	464617.4N 0233735.2E	1250/128 FT	LGTD R	
LRCL 1475	BUILDING	464613.4N 0233737.4E	1246/115 FT	NIL	
LRCL 1476	BUILDING	464623.0N 0233725.0E	1237/164 FT	NIL	
LRCL 1477	BUILDING	464622.6N 0233724.2E	1258/185 FT	NIL	
LRCL 1478	BUILDING	464620.4N 0233723.7E	1225/138 FT	NIL	
LRCL 1479	BUILDING	464619.9N 0233724.7E	1212/124 FT	NIL	
LRCL 1480	BUILDING	464621.0N 0233739.0E	1212/126 FT	NIL	
LRCL 1481	BUILDING	464634.8N 0233700.7E	1254/125 FT	NIL	
LRCL 1482	BUILDING	464635.2N 0233703.7E	1216/87 FT	NIL	
LRCL 1483	BUILDING	464630.5N 0233707.8E	1246/121 FT	NIL	
LRCL 1484	BUILDING	464626.2N 0233714.3E	1207/131 FT	NIL	
LRCL 1485	BUILDING	464627.6N 0233715.5E	1195/119 FT	NIL	
LRCL 1486	BUILDING	464629.9N 0233647.7E	1234/90 FT	NIL	
LRCL 1487	BUILDING	464832.5N 0234616.0E	1305/12 FT	NIL	
LRCL 1488	BUILDING	464628.0N 0233643.4E	1240/145 FT	NIL	
LRCL 1491	BUILDING	464631.5N 0233646.8E	1228/136 FT	NIL	
LRCL 1492	BUILDING	464632.1N 0233645.2E	1217/124 FT	NIL	
LRCL 1493	BUILDING	464637.0N 0233623.7E	1268/169 FT	NIL	



a	b	c	d	e	f
LRCL 1494	BUILDING	464642.1N 0233703.5E	1209/116 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRCL 1495	BUILDING	464644.8N 0233703.0E	1228/136 FT	NIL	
LRCL 1497	BUILDING	464643.0N 0233708.1E	1220/137 FT	NIL	
LRCL 1499	BUILDING	464647.0N 0233726.9E	1195/96 FT	NIL	
LRCL 1500	BUILDING	464647.6N 0233731.8E	1198/99 FT	NIL	
LRCL 1501	BUILDING	464648.8N 0233733.6E	1194/95 FT	NIL	
LRCL 1502	BUILDING	464646.8N 0233735.4E	1182/90 FT	NIL	
LRCL 1503	ANTENNA	464651.2N 0233731.7E	1228/126 FT	LGTD R	
LRCL 1504	ANTENNA	464649.6N 0233729.4E	1206/105 FT	NIL	
LRCL 1505	ANTENNA	464646.6N 0233727.8E	1212/113 FT	NIL	
LRCL 1506	ANTENNA	464650.4N 0233750.3E	1193/96 FT	NIL	
LRCL 1507	BUILDING	464650.3N 0233750.5E	1176/79 FT	NIL	
LRCL 1508	BUILDING	464650.2N 0233752.9E	1179/82 FT	NIL	
LRCL 1509	BUILDING	464649.9N 0233754.1E	1184/88 FT	NIL	
LRCL 1510	BUILDING	464648.9N 0233758.1E	1176/87 FT	NIL	
LRCL 1511	BUILDING	464650.9N 0233757.3E	1180/90 FT	NIL	
LRCL 1512	BUILDING	464658.7N 0233805.4E	1159/96 FT	NIL	
LRCL 1513	BUILDING	464651.1N 0233809.6E	1169/84 FT	NIL	
LRCL 1514	BUILDING	464651.6N 0233821.8E	1185/96 FT	NIL	
LRCL 1515	BUILDING	464652.9N 0233823.1E	1184/108 FT	NIL	
LRCL 1516	SIGN	464654.1N 0233814.2E	1167/81 FT	NIL	
LRCL 1518	BUILDING	464653.8N 0233814.3E	1176/90 FT	NIL	
LRCL 1519	BUILDING	464653.6N 0233823.2E	1195/119 FT	NIL	
LRCL 1523	POLE	464445.4N 0233717.1E	1506/98 FT	NIL	
LRCL 1524	POLE	464442.1N 0233716.5E	1536/100 FT	NIL	
LRCL 1525	POLE	464435.2N 0233708.5E	1605/102 FT	NIL	
LRCL 1526	POLE	464432.2N 0233710.1E	1655/103 FT	NIL	
LRCL 1527	POLE	464426.2N 0233713.4E	1692/94 FT	NIL	
LRCL 1528	POLE	464417.1N 0233652.1E	1729/111 FT	NIL	
LRCL 1530	POLE	464415.9N 0233644.9E	1712/98 FT	NIL	
LRCL 1531	POLE	464414.0N 0233651.0E	1734/94 FT	NIL	
LRCL 1533	POLE	464422.2N 0233659.9E	1725/120 FT	NIL	
LRCL 1535	POLE	464403.9N 0233739.7E	1776/99 FT	NIL	
LRCL 1536	POLE	464406.5N 0233727.2E	1847/101 FT	NIL	
LRCL 1537	POLE	464423.6N 0233711.7E	1715/125 FT	NIL	
LRCL 1538	POLE	464411.7N 0233702.2E	1775/97 FT	NIL	
LRCL 1541	POLE	464757.2N 0234633.2E	1342/36 FT	NIL	
LRCL 1542	ANTENNA	464440.6N 0233639.9E	1641/99 FT	LGTD R	
LRCL 1544	ANTENNA	464818.1N 0233453.9E	1928/108 FT	LGTD R	
LRCL 1546	BUILDING	464808.7N 0234553.0E	1274/54 FT	NIL	
LRCL 1549	BUILDING	464650.2N 0233757.7E	1180/97 FT	NIL	
LRCL 1597	ANTENNA	464444.1N 0233531.3E	1727/138 FT	NIL	
LRCL 1610	ANTENNA	464517.8N 0233809.3E	1323/74 FT	NIL	
LRCL 1655	ANTENNA	464648.9N 0233436.4E	1332/124 FT	LGTD R	
LRCL 1665	ANTENNA	464509.4N 0233618.9E	1599/141 FT	NIL	
LRCL 1670	BUILDING	464649.2N 0233733.8E	1177/73 FT	NIL	
LRCL 1691	ANTENNA	465041.1N 0234131.6E	1372/55 FT	LGTD R	
LRCL 1692	BUILDING	464654.1N 0233955.8E	1065/23 FT	NIL	
LRCL 1708	ANTENNA	464542.1N 0234307.6E	1491/67 FT	LGTD R	
LRCL 1714	POLE	464658.4N 0234005.7E	1054/17 FT	NIL	
LRCL 1715	POLE	464657.8N 0234004.1E	1051/14 FT	NIL	
LRCL 1716	POLE	464658.6N 0233958.5E	1053/17 FT	NIL	
LRCL 1717	POLE	464659.5N 0233957.0E	1055/18 FT	NIL	
LRCL 1718	POLE	464700.7N 0233956.4E	1055/18 FT	NIL	
LRCL 1719	POLE	464702.0N 0233955.8E	1055/18 FT	NIL	
LRCL 1720	POLE	464703.2N 0233955.2E	1055/18 FT	NIL	
LRCL 1721	POLE	464704.5N 0233954.7E	1055/18 FT	NIL	
LRCL 1722	POLE	464705.8N 0233955.3E	1055/18 FT	NIL	
LRCL 1827	POLE	464657.2N 0234111.2E	1092/66 FT	LGTD R	
LRCL 1829	POLE	464659.7N 0234115.9E	1086/61 FT	LGTD R	
LRCL 1830	POLE	464659.8N 0234119.5E	1086/61 FT	LGTD R	
LRCL 1831	POLE	464700.0N 0234123.1E	1087/61 FT	LGTD R	
LRCL 1832	POLE	464700.9N 0234107.2E	1094/67 FT	LGTD R	
LRCL 1833	POLE	464701.3N 0234110.0E	1093/67 FT	LGTD R	
LRCL 1837	BUILDING	464657.9N 0233931.5E	1086/39 FT	NIL	
LRCL 1839	ANTENNA	464556.1N 0233620.0E	1286/94 FT	NIL	
LRCL 1849	ANTENNA	464535.4N 0233552.4E	1413/91 FT	NIL	
LRCL 1851	ANTENNA	464600.5N 0233550.7E	1272/121 FT	NIL	
LRCL 1853	ANTENNA	464517.4N 0233516.0E	1546/28 FT	NIL	
LRCL 1854	BUILDING	464658.8N 0234123.7E	1087/61 FT	LGTD R	
LRCL 1855	POLE	464706.1N 0234142.6E	1095/69 FT	LGTD R	
LRCL 1856	POLE	464703.6N 0234143.8E	1095/69 FT	LGTD R	
LRCL 1857	POLE	464708.5N 0234141.4E	1095/69 FT	LGTD R	



In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRCL 290	ELECTRICAL EXIT LIGHT	464701.0N 0234109.7E	1027.8/2.3 FT	NIL	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRCL 291	ELECTRICAL EXIT LIGHT	464700.8N 0234108.1E	1027.8/2.3 FT	NIL	
LRCL 293	ELECTRICAL EXIT LIGHT	464658.6N 0234106.2E	1028.3/2.0 FT	NIL	
LRCL 294	POLE	464658.6N 0234105.4E	1045.8/18.4 FT	LGTD R	
LRCL 295	POLE	464657.6N 0234113.8E	1086.3/60.7 FT	LGTD R	
LRCL 296	BUILDING	464657.4N 0234115.3E	1079.5/50.0 FT	LGTD R	
LRCL 298	POLE	464656.5N 0234109.7E	1040.7/14.0 FT	LGTD R	
LRCL 299	POLE	464657.0N 0234109.1E	1087.3/60.7 FT	LGTD R	
LRCL 300	BUILDING	464656.3N 0234112.7E	1107.5/80.1 FT	LGTD R	
LRCL 311	POLE	464657.1N 0234105.1E	1056.4/28.3 FT	LGTD R	
LRCL 312	POLE	464656.1N 0234105.2E	1056.5/28.5 FT	LGTD R	
LRCL 331	NAVAID	464704.9N 0234133.0E	1031.1/4.8 FT	NIL	
LRCL 332	POLE	464704.1N 0234133.3E	1096.5/69.3 FT	LGTD R	
LRCL 333	NAVAID	464703.5N 0234133.7E	1031.6/4.8 FT	NIL	
LRCL 339	BUILDING	464658.9N 0234127.2E	1046.3/20.0 FT	NIL	
LRCL 434	ANTENNA	464656.2N 0234113.0E	1109.4/82.1 FT	MARKED	
LRCL 472	ANTENNA	464656.4N 0234112.9E	1108.1/78.6 FT	NIL	
LRCL 473	ANTENNA	464656.1N 0234110.7E	1099.0/70.9 FT	NIL	
LRCL 585	POLE	464714.2N 0234158.1E	1033.5/9.9 FT	NIL	
LRCL 587	NAVAID	464703.1N 0234109.9E	1049.4/24.1 FT	MARKED/LGTD R	
LRCL 620	SIGN	464658.8N 0234028.2E	1038.4/4.4 FT	NIL	
LRCL 621	SIGN	464658.7N 0234028.2E	1038.4/4.4 FT	NIL	
LRCL 624	SIGN	464705.1N 0234106.9E	1029.3/3.6 FT	NIL	
LRCL 627	SIGN	464703.4N 0234110.5E	1028.4/3.6 FT	NIL	
LRCL 628	SIGN	464703.3N 0234110.4E	1028.2/3.6 FT	NIL	
LRCL 634	SIGN	464714.9N 0234134.1E	1024.9/3.3 FT	NIL	
LRCL 635	SIGN	464715.8N 0234133.5E	1024.4/3.3 FT	NIL	
LRCL 636	SIGN	464717.3N 0234132.8E	1023.4/3.3 FT	NIL	
LRCL 637	SIGN	464717.3N 0234132.8E	1023.5/3.3 FT	NIL	
LRCL 638	SIGN	464716.8N 0234130.3E	1024.6/3.3 FT	NIL	
LRCL 639	SIGN	464716.8N 0234130.3E	1024.5/3.3 FT	NIL	
LRCL 640	SIGN	464716.5N 0234129.8E	1026.3/5.4 FT	NIL	
LRCL 644	SIGN	464709.9N 0234130.6E	1028.5/3.8 FT	NIL	
LRCL 645	SIGN	464709.9N 0234129.9E	1028.6/3.8 FT	NIL	
LRCL 646	SIGN	464707.6N 0234124.9E	1028.3/3.8 FT	NIL	
LRCL 647	SIGN	464707.4N 0234124.9E	1028.3/3.8 FT	NIL	
LRCL 648	SIGN	464706.2N 0234115.2E	1028.6/3.8 FT	NIL	
LRCL 649	SIGN	464706.1N 0234115.2E	1028.6/3.8 FT	NIL	
LRCL 655	SIGN	464659.1N 0234024.6E	1037.1/3.6 FT	NIL	
LRCL 656	SIGN	464659.2N 0234024.6E	1037.6/3.6 FT	NIL	
LRCL 657	SIGN	464701.4N 0234028.2E	1036.9/3.8 FT	NIL	
LRCL 663	SIGN	464714.4N 0234140.5E	1031.0/9.5 FT	LGTD R	
LRCL 664	SIGN	464713.8N 0234141.0E	1029.0/7.5 FT	NIL	
LRCL 666	POLE	464706.5N 0234132.1E	1095.5/69.0 FT	LGTD R	
LRCL 667	ELECTRICAL EXIT LIGHT	464706.5N 0234132.3E	1030.9/4.8 FT	NIL	
LRCL 1110	SIGN	464704.7N 0234024.3E	1040.3/3.8 FT	NIL	
LRCL 1111	SIGN	464705.5N 0234026.9E	1040.1/3.8 FT	NIL	
LRCL 1112	NAVAID	464711.3N 0234042.1E	1033.7/3.4 FT	MARKED/ LGTD G	
LRCL 1113	NAVAID	464711.5N 0234041.9E	1033.9/3.4 FT	MARKED/ LGTD G	
LRCL 1114	NAVAID	464711.8N 0234041.8E	1033.4/3.4 FT	MARKED/ LGTD G	
LRCL 1115	NAVAID	464712.1N 0234041.7E	1033.4/3.4 FT	MARKED/ LGTD G	
LRCL 1116	SIGN	464718.4N 0234125.0E	1027.2/3.8 FT	NIL	
LRCL 1122	NAVAID	464719.4N 0234133.5E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL 1123	NAVAID	464719.6N 0234133.4E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL 1124	NAVAID	464719.9N 0234133.3E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL 1125	NAVAID	464720.2N 0234133.1E	1025.1/3.4 FT	MARKED/ LGTD G	
LRCL 1126	SIGN	464720.8N 0234135.7E	1026.0/3.8 FT	NIL	
LRCL 1127	POLE	464709.0N 0234140.4E	1095.1/68.8 FT	LGTD R	
LRCL 1128	POLE	464706.5N 0234141.4E	1094.9/68.2 FT	LGTD R	
LRCL 1129	POLE	464712.8N 0234139.9E	1091.1/67.3 FT	LGTD R	
LRCL 1130	POLE	464703.3N 0234136.9E	1094.7/66.5 FT	LGTD R	
LRCL 1188	ANTENNA	464656.2N 0234108.0E	1038.4/11.2 FT	NIL	
LRCL 1365	ELECTRICAL EXIT LIGHT	464658.0N 0234106.6E	1028.9/2.3 FT	NIL	
LRCL 1390	BUILDING	464659.4N 0234126.8E	1035.2/9.1 FT	NIL	
LRCL 1427	BUILDING	464656.8N 0234112.8E	1042.5/15.5 FT	LGTD R	
LRCL 1432	ANTENNA	464656.1N 0234110.7E	1098.9/71.9 FT	NIL	
LRCL 1465	FENCE	464656.7N 0234110.8E	1037.8/10.7 FT	NIL	
LRCL 1468	BUILDING	464656.7N 0234110.9E	1036.9/9.8 FT	NIL	
LRCL 1473	BUILDING	464656.1N 0234109.1E	1048.2/20.7 FT	LGTD R	
LRCL 1489	BUILDING	464656.3N 0234109.6E	1035.1/8.0 FT	LGTD R	



a	b	c	d	e	f
LRCL_1520	FENCE	464657.9N 0234105.3E	1034.9/8.0 FT	NIL	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRCL_1567	BUILDING	464703.7N 0234141.9E	1043.9/17.1 FT	LGTD R	
LRCL_1568	BUILDING	464706.9N 0234130.9E	1043.0/16.2 FT	LGTD R	
LRCL_1569	BUILDING	464703.4N 0234140.6E	1035.8/9.0 FT	NIL	
LRCL_1572	SIGN	464701.1N 0234024.0E	1038.0/3.6 FT	NIL	
LRCL_1573	SIGN	464706.4N 0234058.8E	1031.1/3.6 FT	NIL	
LRCL_1574	SIGN	464706.3N 0234119.7E	1029.3/3.6 FT	NIL	
LRCL_1575	SIGN	464710.4N 0234133.3E	1029.1/3.6 FT	NIL	
LRCL_1827	POLE	464657.2N 0234111.2E	1092.2/65.8 FT	LGTD R	
LRCL_1829	POLE	464659.7N 0234115.9E	1086.4/60.5 FT	LGTD R	
LRCL_1830	POLE	464659.8N 0234119.5E	1086.4/60.5 FT	LGTD R	
LRCL_1831	POLE	464700.0N 0234123.1E	1087.1/60.5 FT	LGTD R	
LRCL_1832	POLE	464700.9N 0234107.2E	1093.9/67.3 FT	LGTD R	
LRCL_1833	POLE	464701.3N 0234110.0E	1093.4/67.3 FT	LGTD R	
LRCL_1854	BUILDING	464658.8N 0234123.7E	1087.1/60.5 FT	LGTD R	
LRCL_1855	POLE	464706.1N 0234142.6E	1094.6/68.7 FT	LGTD R	
LRCL_1856	POLE	464703.6N 0234143.8E	1094.9/69.0 FT	LGTD R	
LRCL_1857	POLE	464708.5N 0234141.4E	1094.8/68.9 FT	LGTD R	

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 NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coord RWY end coord THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY-SWY
1	2	3	4	5	6	7
07	071.83°	2040 x 45	114/R/B/W/T Concrete	464706.53N 0234026.61E 464724.70N 0234147.26E GUND 133.1 FT	THR 1037.4 FT	-0.1% (135 M) -0.4% (540 M) -0.24% (960 M) 0.00% (345 M)
25	251.84°	2040 x 45	114/R/B/W/T Concrete	464724.70N 0234147.26E 464704.10N 0234015.86E GUND 132.9 FT	THR 1023.3 FT TDZ 1023.3 FT	0.00 % (345 M) 0.24% (960 M) 0.4% (540 M) 0.1% (135 M)
SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of ARST system	OFZ	Remarks
8	9	10	11	12	13	14
NIL	60 x 180	2160 x 210	90 x 150	NIL	Yes	Threshold displaced from the end of the runway by 240 M
NIL	60 x 180	2160 x 210	100 x 150	NIL	NIL	NIL

**LRCL AD 2.13 DECLARED DISTANCES**

<i>RWY designator</i>	<i>TORA (M)</i>	<i>TODA (M)</i>	<i>ASDA (M)</i>	<i>LDA (M)</i>	<i>Remarks</i>
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

<i>RWY Designator</i>	<i>APCH LGT type LEN INTST</i>	<i>THR LGT colour WBAR</i>	<i>VASIS (MEHT) PAPI</i>	<i>TDZ, LGT LEN</i>	<i>RWY Centre Line LGT Length, spacing, colour, INTST</i>	<i>RWY edge LGT LEN, spacing, colour, INTST</i>	<i>RWY End LGT colour WBAR</i>	<i>SWY LGT LEN (M) colour</i>	<i>Remarks</i>
1	2	3	4	5	6	7	8	9	10
07	ALSF-I 810M LIH	Green WBAR	PAPI 3° (53 FT)	NIL	900M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1200M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red	NIL	RWY 07, LED lights used for centerline lighting system
25	ALSF-II 900M LIH	Green WBAR	PAPI 3° (55 FT)	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	RWY 25, LED lights used for TDZ and centerline lighting system

LRCL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	<i>ABN / IBN location, characteristics and hours of operation</i>	NIL
2	<i>LDI location and LGT Anemometer location and LGT</i>	NIL Cup anemometer 165m FM THR 25 Cup anemometer 64m FM THR 07
3	<i>TWY edge and centre line lighting</i>	TWY edge: blue, omni-directional, LIL. TWY centre line: green, bi-directional, LIH.
4	<i>Secondary power supply/switch-over time</i>	Secondary power supply to CAT I/II lighting. Switch-over time 1 sec (RWY, TWYs, aprons).
5	<i>Remarks</i>	Apron floodlighting, obstacle lighting.

LRCL AD 2.16 HELICOPTER LANDING AREA

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

LRCL AD 2.17 ATS AIRSPACE

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

LRCL AD 2.18 ATS COMMUNICATION FACILITIES

<i>Service designation</i>	<i>Call sign</i>	<i>Channel/ Frequency</i>	<i>SATVOICE</i>	<i>Logon address</i>	<i>Hours of operation</i>	<i>Remarks</i>
1	2	3	4	5	6	7
APP	NAPOC	126.430	NIL	NIL	H24	Radar Service
	Approach	127.275 MHz ALTN				
APP	NAPOC North	126.430	NIL	NIL	H24	Radar Service
	Approach	127.275 MHz ALTN				
APP	NAPOC South	119.680	NIL	NIL	H24	Radar Service
	Approach	127.275 MHz ALTN				
TWR	Cluj Tower	118.705	NIL	NIL	H24	Exempted 8.33 kHz State aircraft.
		134.400 MHz ALTN				
		121.500 MHz EMERG				
ATIS	Cluj ATIS	125.525 MHz	NIL	NIL	H24	NIL

LRCL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

<i>Type of aid, MAG VAR</i>	<i>Type of supported OPS</i>	<i>ILS classification</i>	<i>GBAS classification</i>	<i>(For VOR/ILS/MLS give declination)</i>	<i>ID</i>	<i>Frequency / Channel</i>	<i>Hours of operation</i>	<i>Position of transmitting antenna coordinates</i>	<i>Elevation of DME transmitting antenna / ELEV of GBAS reference point</i>	<i>Service volume radius from the GBAS reference point</i>	<i>Remarks</i>
1	2	3	4	5	6	7	8	9	10	11	12
LOC 25 (5°E/2015) ILS CAT II (III.E.4)	ICX	111.900 MHz	H24	464701.6N 0234004.7E	-	NIL					Front course angle 5.35° LOC coverage not assured at 17M +/-35°. LOC coverage is assured at 10NM +/-35° and 18NM +/-10°.
GP 25	-	331.100 MHz	H24	464717.8N 0234134.9E	-	NIL					GP angle 3.0° ILS RDH 54 FT Between 6° and 8° on the left side of runway centerline (as seen from the aircraft) from 9NM to 10NM, GP coverage is not assured.
DME 25	ICX	1017.000 MHz CH 56X	H24	464717.6N 0234134.9E	1100 FT	NIL					NIL
DVOR/DME (5°E/2015)	CLJ	111.200 MHz CH 49X	H24	464800.4N 0234714.1E	1600 FT	NIL					075.8 MAG / 3.79 NM from THR 25 Coverage 175 NM (assumed)
DVOR/DME (5°E/2010)	SBI	114.000 MHz CH 87X	H24	454651.3N 0240516.1E	1500 FT	NIL					Coverage 150 NM DVOR Coverage 100 NM DME
DME	BAI	1150.000 MHz CH 126Y	H24	462928.0N 0231412.0E	6000 FT	NIL					Coverage 100 NM (declared) Unusable in sector 140°-260°
DME	CHU	1053.000 MHz CH 29X	H24	461059.0N 0244913.9E	2500 FT	NIL					Coverage 100 NM (declared) Unusable in sector 110°-205°
DME	ZLU	1041.000 MHz CH 17X	H24	470910.1N 0230606.9E	2400 FT	NIL					Coverage 100 NM (declared) Unusable in sectors 245°-360° and 045°-060°
DME	CIC	1083.000MHz CH 59Y	H24	461940.4N 0233211.0E	3400 FT	NIL					Coverage 100 NM (assumed) Unusable in sector 230°-340°
DME	PLT	1102.000MHz CH 78X	H24	453832.2N 0235637.3E	5800 FT	NIL					Coverage 100 NM (assumed) Unusable in sector 90°-92° and 190°-260°
DME	HNU	1087.000 MHz CH 63X	H24	471638.8N 0244407.0E	5400 FT	NIL					Coverage 100 NM (declared) Unusable in sector 310°-075°



1	2	3	4	5	6	7	8
NDB	SIB	381 KHz	H24	454706.0N 0240909.3E	NIL	NIL	Coverage 100 NM (declared)
NDB	TGM	428 KHz	H24	462648.9N 0241823.7E	NIL	NIL	Coverage 80 NM (declared)
GPS NPA	-	1575.420 MHz	H24	NIL	NIL	NIL	Transmitting antennas are satellite based. Maintained by the U.S. Department of Defense.
EGNOS LPV	-	1575.420 MHz	H24	NIL	NIL	NIL	Transmitting antennas are satellite based. Maintained by the European Satellite Services Provider - ESSP.

LRCL AD 2.20 LOCAL AERODROME REGULATIONS

1. Airport regulations / Reguli de aeroport

1. Operation with aircraft exceeding the certified design characteristics of the aerodrome (4C):

a) must obtain prior approval from the aerodrome operator, request that must be sent to oper@airportcluj.ro, minimum 10 days before flight;

b) in case of declared emergency situations, these may use LRCL without prior approval.

2. When landing on RWY 07, the above-mentioned aircraft, shall vacate runway following the standard taxi route ARRIVAL 1D.

3. When landing on RWY 25, the above-mentioned aircraft, shall vacate runway following the standard taxi route ARRIVAL 2D.

1. Operarea cu aeronave care depășesc caracteristicile de proiectare certificate ale aerodromului (4C):

a) trebuie să obțină în prealabil aprobarea operatorului de aerodrom, solicitarea care va fi transmisă pe adresa oper@airportcluj.ro cu minim 10 zile înaintea zborului;

b) în situații de urgență declarate, acestea pot utiliza LRCL fără aprobare prealabilă.

2. Când aterizează pe pista 07, aeronavele menționate mai sus, vor degaja pista urmând ruta standard de rulare ARRIVAL 1D.

3. Când aterizează pe pista 25, menționate mai sus, vor degaja pista urmând ruta standard de rulare ARRIVAL 2D.

2. APRON MANAGEMENT / ADMINISTRAREA PLATFORMEI

1. Apron management, at Cluj Avram Iancu International Airport, is coordinated between the aerodrome operator and the air traffic service provider. The provisions can be found in the local procedure which can be requested at office@airportcluj.ro (available only in Romanian).

2. Air to ground communications facilities used at the apron:

Service designation	Call sign	Channel (s) /frequency	Hours of operation	Remarks
Start-up authorizations and taxiing instructions	CLUJ Tower	According to LRCL AD 2.18 ATS COMMUNICATION FACILITIES		
Stand allocation				

3. During taxi on apron, it is recommended that all aircrafts to use the engine thrust as low as possible.

4. For aircraft parking Marshaller assistance is provided.

5. Aircraft exit from parking stands is carried out by push-back procedure, except exit from stand 12.

6. Marshaller's guidance must be provided to a moving aircraft on the apron surface whenever:

a) on pilot request;
b) during low visibility conditions (LVP).

7. Pedestrian displacement of passengers and crew is allowed only on APRON 1 to/from aircraft parking stands 4, 5, 6 and 23 to/from terminals, for embarking/disembarking operations.

1. Pe Aeroportul Internațional Avram Iancu Cluj, administrarea platformei este coordonată între operatorul de aerodrom și furnizorul serviciilor de trafic aerian. Prevederile sunt regăsite în procedura locală care poate fi solicitată la adresa office@airportcluj.ro (disponibilă numai în limba română).

2. Facilități de comunicații aer-sol desemnate pentru a fi utilizate la platformă:

Tip serviciu	Indicativ de apel	Canal(e) /frecvență	Ore de funcționare	Observații
Autorizații de pornire și instrucțiuni de rulare	CLUJ Tower	Conform LRCL AD 2.18 ATS COMMUNICATION FACILITIES		
Alocare stand				

3. Pe durata rulării aeronavelor pe platformă, se recomandă utilizarea motoarelor la o turație cât mai redusă.

4. Pentru parcare aeronavelor se asigură asistență de către Dispecerul Sol.

5. Ieșirea de la pozițiile de parcare este realizată prin procedură push-back, excepție fiind ieșirea de la stand 12.

6. Dirijarea aeronavelor în mișcare pe suprafețele platformelor va fi asigurată de către dispecerul sol în următoarele situații:

a) la solicitarea pilotului comandant;
b) în condiții de vizibilitate redusă (LVP).

7. Deplasarea pedestră a pasagerilor și echipajelor este permisă doar pe APRON 1 la/de la pozițiile de parcare aeronave 4, 5, 6 și 23 la/de la terminal, pentru efectuarea operațiunilor de îmbarcare/debarcare.

3. STANDARD TAXI ROUTES / RUTE STANDARD DE RULARE**3.1 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	APRON	Stand	Taxiway to be followed	Remarks
	Arrival 1A		APRON 1	1-3	RWY backtrack TWY G TWY D TWY A	To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 1B			4-6,23	RWY backtrack TWY G TWY H TWY J TWY K	NIL
	Arrival 1C			7-9	RWY backtrack TWY G TWY D TWY A	To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 1D		APRON 2	10,11	RWY backtrack TWY G	NIL
	Arrival 1E			12	RWY backtrack TWY G TWY E	In emergency situation is assigned as isolated aircraft position
	Arrival 1F			13-18	RWY backtrack TWY G TWY C	NIL
	Arrival 1G			19-22	RWY backtrack TWY G TWY E TWY B	
	Landing on RWY 25					
Instruction given by ATC						
Taxi via standard taxi route	Name of the Standard Taxi Route	To	APRON	Stand	Taxiway to be followed	Remarks
	Arrival 2A		APRON 1	1-3	TWY F TWY H TWY D TWY A	To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 2B			4-6, 23	TWY F TWY H TWY J TWY K	NIL
	Arrival 2C			7-9	TWY F TWY H TWY D TWY A	To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.
	Arrival 2D		APRON 2	10,11	TWY F TWY H TWY G	NIL
	Arrival 2E			12	TWY F TWY H TWY G TWY E	In emergency situation is assigned as isolated aircraft position
	Arrival 2F			13-18	TWY F TWY H TWY G TWY C	NIL
	Arrival 2G			19-22	TWY F TWY H TWY G TWY E TWY B	

3. 2 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	
	From	Stand	Name of the Standard Taxi Route	Taxiway to be followed			
	APRON 1	1-3	Departure 1A	TWY A TWY D TWY H TWY F	TWY H	To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.	
		4-6,23	Departure 1B	TWY K TWY J TWY H TWY F		NIL	
		7-9	Departure 1C	TWY A TWY D TWY H TWY F		To be used by A/C with MTOW ≤ 80 T. Exceptions may be applied by TWR in order to ensure fluency of the airport air traffic.	
	APRON 2	10,11	Departure 1D	TWY G TWY H TWY F			NIL
		12	Departure 1E	TWY E TWY G TWY H TWY F			
		13-18	Departure 1F	TWY C TWY G TWY H TWY F			
		19-22	Departure 1G	TWY B TWY E TWY G TWY H TWY F			
	Take-off RWY 25						
Taxi via standard taxi route	Instruction given by ATC				Stop bar	Remarks	
	From	Stand	Name of the Standard Taxi Route	Taxiway to be followed			
	APRON 1	1-3	Departure 2A	TWY A TWY D TWY G RWY backtrack	TWY G	To be used by A/C with MTOW ≤ 80 T. Exceptions applied by TWR in order to ensure fluency of the airport air traffic.	
		4-6,23	Departure 2B	TWY K TWY J TWY H TWY G RWY backtrack		NIL	
		7-9	Departure 2C	TWY A TWY D TWY G RWY backtrack		To be used by A/C with MTOW ≤ 80 T. Exceptions applied by TWR in order to ensure fluency of the airport air traffic.	
	APRON 2	10,11	Departure 2D	TWY G RWY backtrack			NIL
		12	Departure 2E	TWY E TWY G RWY backtrack			
		13-18	Departure 2F	TWY C TWY G RWY backtrack			
		19-22	Departure 2G	TWY B TWY E TWY G RWY backtrack			



4. HELICOPTER OPERATION-LIMITATIONS / OPERAREA ELICOPTERELOR-LIMITĂRI

- | | |
|---|---|
| <p>1. Helicopter movement can be performed both by air or ground taxi, but only with mandatory use of the published standard taxi routes.</p> <p>2. Helicopters will be parked on a marked / unmarked apron parking stand only with ground marshaller guidance.</p> | <p>1. Deplasarea elicopterelor poate fi efectuată atât în rulaaj aerian, cât și la sol dar cu respectarea obligatorie a rutelor standard de rulare publicate.</p> <p>2. Elicopterele vor fi parcate pe platformă, pe poziții marcate/nemarcate, doar cu dirijarea dispecerului sol.</p> |
|---|---|

LRCL AD 2.21 NOISE ABATEMENT PROCEDURES

- | | |
|--|--|
| <p>1. For DEPARTURES - See AD 1.1-3.</p> <p>2. The APU is permitted functioning maximum 15 minutes after BLOCK ON TIME and may be started with maximum 30 minutes before STD.</p> <p>3. In order to ensure noise reduction, mostly, landing will be performed on RWY 25 and takeoff will be performed on RWY 07 on the following time intervals:
a) for summer season: between 20.00 UTC and 04.00 UTC;
b) for winter season: between 21.00 UTC and 05.00 UTC.</p> | <p>1. Pentru DECOLĂRI - Vezi AD 1.1-3.</p> <p>2. 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.</p> <p>3. Pentru a asigura reducerea zgomotului, aterizarea va fi efectuată preponderent pe RWY 25 și decolarea se va efectua preponderent pe RWY 07 în următoarele intervale de timp:
a) pentru sezonul de vară: între 20.00 UTC și 04.00 UTC;
b) pentru sezonul de iarnă: între 21.00 UTC și 05.00 UTC.</p> |
|--|--|

LRCL AD 2.22 FLIGHT PROCEDURES

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.

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.

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.

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 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;

2.2 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;

2.3 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.

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 iStandard LVP Taxi-Routes;

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

4.3 During the LVP operational phase, when STOP BAR lights are technically operational, multiple aircraft may be authorized on the maneuvering area, without simultaneously authorizing vehicles.

4.4 During the LVP operational phase, when the STOP BAR lights are technically operational, multiple vehicles may be authorized on the maneuvering area, without simultaneously authorizing aircraft.

4.5 During the LVP operational phase, when the STOP BAR lights are technically non-operational, only a single aircraft or a single vehicle shall be authorized on the maneuvering area.

4.6 STOP BAR lights shall remain continuously ON, except situations where Cluj TWR has transmitted approval for aircraft/vehicles to entry on runway.

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;

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.

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

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

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

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 derulării fazei operaționale LVP, în condițiile în care baretele STOP BAR sunt funcționale din punct de vedere tehnic, pe suprafața de manevră pot fi autorizate mai multe aeronave, fără a fi autorizate și autovehicule în același timp.

4.4 Pe durata derulării fazei operaționale LVP, în condițiile în care baretele STOP BAR sunt funcționale din punct de vedere tehnic, pe suprafața de manevră pot fi autorizate mai multe vehicule, fără a fi autorizate și aeronave în același timp.

4.5 Pe durata derulării fazei operaționale LVP, în condițiile în care baretele STOP BAR sunt nefuncționale din punct de vedere tehnic, pe suprafața de manevră va fi autorizată o singură aeronavă sau un singur autovehicul.

4.6 Baretele STOP BAR vor fi permanent pornite, cu excepția situațiilor în care TWR Cluj a transmis aprobarea de intrare la pistă pentru aeronave/autovehicule.

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) 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 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.

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).

3. AUTOLAND operation / Operațiuni AUTOLAND

a) Before AUTOLAND operation, crew must advise Cluj TWR about this intention and Cluj TWR must inform Ground Operations Service in order to take the appropriate safety measures.

b) After landing, crew must provide feedback by completing a form, related to the performance of the AUTOLAND operation including information related to the parameters of the on-board and ground navigation equipment.

c) The completed AUTOLAND form is sent by the Ground Operations Service to the Aeronautical Quality and Safety Department for keeping.

d) The form can be requested at the following e-mail address: oper@airportcluj.ro.

a) Echipajele aeronavelor care își propun să efectueze operațiuni de aterizare AUTOLAND anunță TWR Cluj asupra acestor intenții iar TWR Cluj anunță Serviciul Operațiuni Sol al Aeroportului în vederea luării măsurilor specifice de siguranță;

b) După aterizare, echipajele aeronavelor oferă un feedback prin completarea unui chestionar, referitor la modul de desfășurare a operațiunii de aterizare AUTOLAND efectuate, asupra funcționării în parametri de operare stabiliți a echipamentelor de navigație de la bord și de la sol.

c) Formularul AUTOLAND completat este transmis de către Serviciul Operațiuni Sol la Compartimentul Calitate și Siguranță Aeronautică, în vederea păstrării evidențelor rapoartelor de aterizare.

d) Formularul poate fi solicitat la următoarea adresă de e-mail: oper@airportcluj.ro.

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 imentioned 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 înaintea 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			

3. Removal of disabled aircraft / Îndepărtarea aeronavelor imobilizate

- a) Aircraft operators are responsible for removing accidentally disabled aircraft on the moving surface and the adjacent safety strip.
- b) Cluj *Avram Iancu* International Airport can provides airline operators with contact details of companies owning equipment and machinery capable of removing accidentally disabled aircraft.
- c) Equipment's owned for disabled aircraft removal:
- Rapid Recovery MULTISLING NARROW BODY LIFTING KIT COD C RESQTEC
 - Aircraft Recovery TRAILER SYSTEM QI30T/QI20T COMBI RESQTEC

- a) Operatorii aerieni sunt răspunzători de înlăturare a aeronavelor imobilizate accidental pe suprafața de mișcare și benzile de siguranță adiacente.
- b) Aeroportul Internațional Avram Iancu Cluj poate pune la dispoziție operatorilor aerieni date de contact ale firmelor ce dețin echipamente și utilaje capabile să înlăture aeronavele imobilizate accidental.
- c) Echipamente de îndepărtare a aeronavelor deținute imobilizate:
- Rapid Recovery MULTISLING NARROW BODY LIFTING KIT COD C RESQTEC
 - Aircraft Recovery TRAILER SYSTEM QI30T/QI20T COMBI RESQTEC

4. Warning for bird hazard / Avertizare pentru pericol de păsări

Bird concentration in the AD area.

Concentrări de păsări în zona de aerodrom.

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