

Publication Date: 11 APR 2023

Effective Date: 18 MAY 2023

**AIRAC
AIP AMDT**

**05
18 MAY 2023**

AIRAC AIP AMENDMENT 05/23

I. Content

- ENR - list of air navigation obstacles - Area 1 updated.
- AD - LRAR - list of aerodrome obstacles updated (Area 2 and Area 3);
 - electronic obstacle data sets for Area 2 and Area 3 updated;
- LRBC - list of aerodrome obstacles updated (Area 2 and Area 3);
 - electronic obstacle data sets for Area 2 and Area 3 available;
- LRBM - update of upper limit of BAIA MARE CTR;
- LRCV - update of upper limit of CRAIOVA CTR;
- LROD - update of upper limit of ORADEA CTR;
- LRSM - update of upper limit of SATU MARE CTR;
- LRSV - update of upper limit of SUCEAVA CTR;
- LRTC - update of upper limit of TULCEA CTR.

II. Insert the following new pages and/or charts:

GEN 0.4-1	18 MAY 2023
GEN 0.4-2	18 MAY 2023
GEN 0.4-3	18 MAY 2023
GEN 0.4-4	18 MAY 2023
GEN 0.4-5	18 MAY 2023
GEN 0.4-6	18 MAY 2023
GEN 0.4-7	18 MAY 2023
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ENR 5.4-1	18 MAY 2023
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ENR 5.4-5	18 MAY 2023
AD 2.1-2	18 MAY 2023
AD 2.1-3	18 MAY 2023
AD 2.1-4	18 MAY 2023
AD 2.1-5	18 MAY 2023
AD 2.1-6	18 MAY 2023
AD 2.1-7	18 MAY 2023
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AD 2.1-9	18 MAY 2023

Destroy the following pages and/or charts:

GEN 0.4-1	20 APR 2023
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GEN 0.4-3	20 APR 2023
GEN 0.4-4	20 APR 2023
GEN 0.4-5	20 APR 2023
GEN 0.4-6	20 APR 2023
GEN 0.4-7	20 APR 2023
GEN 0.5-1	20 APR 2023
GEN 3.1-6	15 JUL 2022
GEN 4.1-11	01 JAN 2023
ENR 5.4-1	18 JUL 2019
ENR 5.4-2	01 MAY 2014
ENR 5.4-3	01 MAY 2014
ENR 5.4-4	01 MAY 2014
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AD 2.1-2	29 DEC 2022
AD 2.1-3	24 FEB 2022
AD 2.1-4	30 DEC 2021
AD 2.1-5	30 DEC 2021
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II.	Insert the following new pages and/or charts:	Destroy the following pages and/or charts:
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	AD 2.1-11 18 MAY 2023	AD 2.1-11 30 DEC 2021
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III.	Amend RECORD OF AIP AMDT (GEN 0.2) accordingly.	
IV.	Hand amendments:	
	See GEN 0.5 / 18 MAY 2023.	

END

GEN 0.4 CHECKLIST OF AIP PAGES

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ENR 6-2 24 FEB 2022	AMA value in quadrilateral defined by SW corner 460000N and 0230000E correct and read 8200 instead of 8000	AIRAC 01/23 26 JAN 2023
ENR 6-2 24 FEB 2022	AMA value in quadrilateral defined by SW corner: 46N and 021E, correct and read 3800 instead of 3700; 46N and 022E, correct and read 8200 instead of 8100; 45N and 020E, correct and read 2600 instead of 1500; 45N and 021E, correct and read 7400 instead of 4400.	AIRAC 03/23 23 MAR 2023
ENR 6-2 24 FEB 2022	AMA value in quadrilateral defined by SW corner: 47N and 022E correct and read 4900 instead of 4300; 47N and 023E correct and read 6800 instead of 5800; 46N and 024E correct and read 7000 instead of 5500; 45N and 023E correct and read 10400 instead of 10300.	AIRAC 03/23 23 MAR 2023
ENR 6-2 24 FEB 2022	AMA value in quadrilateral defined by SW corner: 43N and 027E correct and read 3600 instead of 1700; 43N and 028E correct and read 2300 instead of 1900; 43N and 029E correct and read 1200 instead of 1000; 43N and 030E correct and read 1200 instead of 1000; 44N and 030E correct and read 1200 instead of 1000.	AIRAC 03/23 23 MAR 2023
ENR 6-2 24 FEB 2022	AMA value in quadrilateral defined by SW corner: 44N and 021E correct and read 6500 instead of 4800; 44N and 022E correct and read 7800 instead of 5400; 43N and 022E correct and read 9300 instead of 1400; 43N and 023E correct and read 8800 instead of 1500; 44N and 023E correct and read 3300 instead of 2900; 46N and 023E correct and read 8200 instead of 8000; 48N and 023E correct and read 8100 instead of 3200; 44N and 024E correct and read 3200 instead of 3000; 43N and 024E correct and read 6300 instead of 1900; 47N and 025E correct and read 9400 instead of 9000; 44N and 025E correct and read 3400 instead of 2800; 43N and 025E correct and read 4600 instead of 2200; 43N and 026E correct and read 5100 instead of 2200; 44N and 026E correct and read 2700 instead of 2400; 45N and 026E correct and read 8500 instead of 7900; 46N and 026E correct and read 8300 instead of 7500; 47N and 026E correct and read 8300 instead of 5100; 48N and 026E correct and read 3000 instead of 2400; 48N and 027E new value 2500; 46N and 027E correct and read 3300 instead of 2900; 45N and 027E correct and read 5100 instead of 3300; 43N and 027E correct and read 3600 instead of 1700; 43N and 028E correct and read 2300 instead of 1900; 45N and 028E correct and read 2700 instead of 2600; 46N and 028E correct and read 2600 instead of 2200; 43N and 029E correct and read 1200 instead of 1000; 43N and 030E correct and read 1200 instead of 1000; 44N and 030E correct and read 1200 instead of 1000.	AIRAC 04/23 20 APR 2023
ENR 6-2 24 FEB 2022 ENR 6-100 20 APR 2023	Upper limit of BAIA MARE CTR, correct and read: "FL55" instead of "5500 ft AMSL". Upper limit of CRAIOVA CTR, correct and read: "FL55" instead of "5500 ft STD". Upper limit of ORADEA CTR, correct and read: "FL55" instead of "5500 ft STD". Upper limit of SATU MARE CTR, correct and read: "FL55" instead of "5500 ft STD". Upper limit of SUCEAVA CTR, correct and read: "FL95" instead of "9500 ft STD". Upper limit of TULCEA CTR, correct and read: "FL65" instead of "6500 ft STD".	AIRAC 06/23 18 MAY 2023

Aerodrome/Heliport	Briefing coverage
TULCEA/Delta Dunării	W: 0600-1800; S: 0500-1700 Pre-flight information is available on request from Constanța ARO/Briefing Telephone/Fax: +40-(0)241-742158 AFS: LRCKYOYX e-mail: aro.lrck@romatsa.ro
	W: 1800-0600; S: 1700-0500 Pre-flight information is available on request from Bucharest Otopeni ARO/Briefing Telephone: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TUZLA/Tuzla	Romania

5.1.2. At all controlled aerodromes where ARO/Briefing units are not established, Briefing Rooms are available and PIB is provided on request via printer (network connection with the responsible ARO/Briefing) or by fax as detailed in 5.1.1. above. Telephone connections with responsible ARO/Briefing are available at locations.

5.2 Available PIB types

The following types of PIB can be made available:

- Aerodrome PIB;
- Area PIB;
- Route PIB;
- Narrow Route PIB;
- Updates concerning PIB's listed above.

6. Digital data sets

6.1 Electronic terrain data sets

Electronic terrain data sets are not available.

6.2 Electronic obstacle data sets

6.2.1 Area 1

Electronic obstacle data set for Area 1, as specified in ICAO Annex 15, is not available for Romania. Electronic list containing obstacles published in section ENR 5.4 is available in csv format. This list is available on request by e-mail:

Romanian Air Traffic Services Administration – ROMATSA
Aeronautical Information Management (AIM) Unit
e-mail: ais@aisro.ro, ais@romatsa.ro
web: <https://www.aisro.ro>

6.2.2 Area 2, Area 3, Area 4

Electronic obstacle data sets for Area 2, 3, 4 are available, in csv format, as indicated in the table below.

Aerodrome	Obstacle data		
	Area 2	Area 3	Area 4
ARAD/Arad (LRAR)	AVBL	AVBL	-
BACĂU/George Enescu (LRBC)	AVBL	AVBL	-
BAIA MARE/Maramureș (LRBM)	AVBL	AVBL	AVBL
CLUJ NAPOCA/Avram Iancu (LRCL)	AVBL	AVBL	-
CONSTANȚA/Mihail Kogălniceanu-Constanța (LRCK)	AVBL	AVBL	-
TÂRGU MUREȘ/Transilvania-Târgu Mureș (LRTM)	AVBL	AVBL	-

These data sets are available on request at AIM Unit by e-mail (see address contact above).

Aerodrom/Heliport	Acoperire Briefing
TULCEA/Delta Dunării	W: 0600-1800; S: 0500-1700 Informațiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing Constanța Telefon/Fax: +40-(0)241-742158 AFS: LRCKYOYX e-mail: aro.lrck@romatsa.ro
	W: 1800-0600; S: 1700-0500 Informațiile înaintea zborului sunt disponibile la cerere de la ARO/Briefing București Otopeni Telefon: +40-(0)21-2032122; +40-(0)21-2032127; +40-(0)21-3114315 Fax: +40-(0)21-2032127; +40-(0)21-3114316 AFS: LROPYOYX e-mail: aro.lrop@romatsa.ro
TUZLA/Tuzla	România

5.1.2. La toate aerodromurile controlate unde nu sunt stabilite unități ARO/Briefing, sunt disponibile încăperi Briefing și PIB este furnizat la cerere, pe imprimantă (legată în rețea cu ARO/Briefing responsabil) sau prin fax în concordanță cu 5.1.1. de mai sus. La aceste amplasamente sunt disponibile legături telefonice cu ARO/Briefing responsabil.

5.2 Tipuri de PIB disponibile

Următoarele tipuri de PIB pot fi disponibile:

- PIB de aerodrom
- PIB de zonă;
- PIB de rută;
- PIB de rută îngustă;
- actualizări ale tipurilor de PIB enumerate mai sus.

6. Seturi de date digitale

6.1 Seturi de date digitale de teren

Seturile de date digitale de teren nu sunt disponibile.

6.2 Seturi de date digitale de obstacolare

6.2.1 Zona 1

Seturile de date digitale de obstacolare pentru Zona 1, conforme cu specificațiile din Anexa 15 OACI, nu sunt disponibile pentru România. O listă electronică conținând obstacolele din secțiunea ENR 5.4 este disponibilă în format csv. Această listă este disponibilă la cerere prin e-mail:

Administrația Română a Serviciilor de Trafic Aerian – ROMATSA
Serviciul Managementul Informațiilor Aeronautice (AIM)
e-mail: ais@aisro.ro; ais@romatsa.ro;
web: <https://www.aisro.ro>

6.2.2 Zona 2, Zona 3, Zona 4

Seturile de date digitale de obstacolare pentru Zonele 2, 3, 4 sunt disponibile, în format csv, conform tabelului de mai jos.

Aerodrom	Datele de obstacolare		
	Zona 2	Zona 3	Zona 4
ARAD/Arad (LRAR)	Disponibil	Disponibil	-
BACĂU/George Enescu (LRBC)	Disponibil	Disponibil	-
BAIA MARE/Maramureș (LRBM)	Disponibil	Disponibil	Disponibil
CLUJ NAPOCA/Avram Iancu (LRCL)	Disponibil	Disponibil	-
CONSTANȚA/Mihail Kogălniceanu-Constanța (LRCK)	Disponibil	Disponibil	-
TÂRGU MUREȘ/Transilvania-Târgu Mureș (LRTM)	Disponibil	Disponibil	-

Aceste seturi de date digitale sunt disponibile la cerere prin e-mail la Serviciul AIM (vezi datele de contact de mai sus).

IAȘI / Iași (LRIA)**1. Landing Charge**

UNIT RATE: 3.00 EURO / tone

ADDITIONAL CONDITIONS ASSOCIATED: Depending on the number of landings made by an air operator within one month, from approved landing charge may apply the following discounts:

No. of landings / month	Discount (%)
10 - 20	5
21 - 30	10
31 - 40	15
41 - 50	20
51 - 60	25
61 - 70	30
71 - 80	35
81 - 100	40
101 - 150	45
≥ 151	50

Note: Discounts are only granted for regular commercial flights**2. Lighting charge**

UNIT RATE: 1.50 EURO / tone

3. Parking charge

UNIT RATE: 0.04 EURO / tone / hour

4. Passengers service

UNIT RATE: 6.30 EURO / embarked passenger - international flights

5.74 EURO / embarked passenger - domestic flights

ADDITIONAL CONDITIONS ASSOCIATED: Depending on the number of passengers embarked by an air operator from Iași International Airport within one year, from approved passengers service charge may apply the following discounts:

No. of embarked pax / year	Discount (%)
100.000 - 125.000	5
125.001 - 150.000	10
150.001 - 175.000	15
175.001 - 200.000	20
200.001 - 225.000	25
225.001 - 250.000	30
250001 - 300000	35
300001 - 400000	40
400001 - 600000	45
≥ 600.001	50

Notes:

1. Discounts will be applied at the remained amount after the safety oversight fee is lowered (OMT no. 7/2014) and SITA.

2. Discounts are only granted for regular commercial flights

5. Airport security charge

UNIT RATE: 1.00 EURO / embarked passenger with departure point LRIA

6. Other charges**6.1 Airport development charge**

UNIT RATE: 4.00 EURO / embarked passenger

IAȘI / Iași (LRIA)

1. Tariful de aterizare

NIVELUL UNITAR AL TARIFULUI: 3.00 EURO / tonă

CONDIȚII SUPLIMENTARE ASOCIATE: În funcție de numărul de aterizări efectuate de către un operator aerian în decurs de o lună, la tariful de aterizare aprobat, se pot aplica următoarele reduceri:

Nr. aterizări / lună	Reducere (%)
10 - 20	5
21 - 30	10
31 - 40	15
41 - 50	20
51 - 60	25
61 - 70	30
71 - 80	35
81 - 100	40
101 - 150	45
≥ 151	50

Note: Reducerile se acorda doar pentru zboruri comerciale regulate.

2. Tariful de iluminare

NIVELUL UNITAR AL TARIFULUI: 1.50 EURO / tonă

3. Tariful de staționare

NIVELUL UNITAR AL TARIFULUI: 0.04 EURO / tonă / oră

4. Servicii pentru pasageri

NIVELUL UNITAR AL TARIFULUI: 6.30 EURO / pasager îmbarcat - zboruri externe

5.74 EURO / pasager îmbarcat - zboruri interne

CONDIȚII SUPLIMENTARE ASOCIATE: În funcție de numărul de pasageri îmbarcați de o companie aeriană de la Aeroportul Internațional Iași, în decurs de un an, la tariful de servicii pentru pasageri aprobat se pot aplica următoarele reduceri:

Nr. pax îmbarcați / an	Reducere (%)
100.000 - 125.000	5
125.001 - 150.000	10
150.001 - 175.000	15
175.001 - 200.000	20
200.001 - 225.000	25
225.001 - 250.000	30
250001 - 300000	35
300001 - 400000	40
400001 - 600000	45
≥ 600.001	50

Note:

1. Reducerea se aplică la suma rămasă după deducerea tarifelor colectate pentru supravegherea obiectivelor necesare siguranței pasagerilor (OMT nr. 7/2014) și SITA.

2. Reducerile se acorda doar pentru zboruri comerciale regulate

5. Tarif de securitate

NIVELUL UNITAR AL TARIFULUI: 1.00 EURO / pasager îmbarcat cu punctul de plecare LRIA

6. Alte tarife

6.1 Tarif dezvoltare aeroport

NIVELUL UNITAR AL TARIFULUI: 4.00 EURO / pasager

**ENR 5.4 AIR NAVIGATION OBSTACLES - AREA 1**
(Height 328 FT AGL or more)

<i>OBST ID/ Designation</i>	<i>OBST type</i>	<i>OBST position</i>	<i>ELEV/HGT (FT)</i>	<i>OBST LGT Type/Colour</i>	<i>Remarks</i>
1	2	3	4	5	6
Basarabi	Antenna mast	441039N 0282448E	443/344	NIL	
Medgidia	Antenna mast	441442N 0281547E	522/344	NIL	
Cernavoda	Antenna mast	441851N 0280123E	502/344	NIL	
Craiova	Chimney	442034N 0234900E	804/390	NIL	
Craiova	Chimney	442043N 0234853E	902/489	NIL	
Silistea Noua	Antenna mast	442152N 0245903E	518/344	NIL	
București	Antenna mast	442337N 0260730E	730/459	Red lights	
Slatina	Antenna mast	442527N 0242304E	896/344	NIL	
Bucuresti	Building + antenna	442539N 0260521E	712/427	NIL	
Bucuresti	Antenna mast	442632N 0260218E	938/679	NIL	
Bucuresti	Building	442700N 0260500E	735/466	NIL	
Bucuresti	Building	442708N 0260337E	640/371	NIL	
Bucuresti	Antenna mast	442713N 0260624E	686/417	NIL	
Bucuresti	Antenna mast	442805N 0260141E	600/328	NIL	
Bucuresti	Antenna mast	442842N 0260312E	636/351	NIL	
Bucuresti	Building	442851N 0260416E	646/354	NIL	
Balota	Antenna mast	443601N 0224910E	1860/676	NIL	
Sinoe	Antenna mast	443734N 0284804E	430/344	NIL	
Tancabesti	Antenna mast	444016N 0260450E	942/614	NIL	
Pitesti	Antenna mast	445106N 0245148E	1437/377	NIL	
Topolog	Antenna mast	445122N 0282515E	1678/389	NIL	
Baba Ana	Antenna mast	445533N 0263031E	630/354	NIL	
Gruiu	Antenna mast	445621N 0253922E	1273/377	NIL	
Doicești	Chimney	450002N 0252402E	1011/683	NIL	
Mahmudia	Antenna mast	450514N 0290419E	935/361	NIL	
Tulcea	Antenna mast	450955N 0284825E	676/394	NIL	
Braila	Antenna mast	451446N 0275714E	397/344	NIL	
Văcăreni	Antenna mast	451946N 0281042E	1265/715	Red lights	
Parang	Antenna mast	452304N 0232824E	5850/338	NIL	
Conachi	Antenna mast	453526N 0273359E	417/344	NIL	NIL
Nucet	Antenna mast	455224N 0225149E	2543/377	NIL	
Bodoc	Antenna mast	455657N 0255007E	2185/344	NIL	
Arad	2 chimneys	461015N 0212601E	732/377	NIL	
Arad	2 chimneys	461321N 0211944E	1014/659	NIL	
Bârlad	Antenna mast	461429N 0275104E	1575/655	Red lights	
Siria	Antenna mast	461551N 0213952E	1998/399	NIL	
Targu Mures	Chimney	463043N 0243029E	1339/341	NIL	
Campia Turzii	Antenna mast	463051N 0235446E	1489/443	NIL	
Bacau	2 chimneys	463149N 0265618E	1234/753	NIL	
Bacau	Antenna mast	463618N 0265545E	1115/485	Red lights	
Tanacu	Antenna mast	464025N 0274729E	1489/331	NIL	
Feleac	Antenna mast	464251N 0233832E	3236/775	NIL	
Oradea	Chimney	470138N 0215905E	981/502	NIL	
Oradea	Antenna mast	470332N 0215822E	1370/549	NIL	
Iasi	Antenna mast	470511N 0273848E	1844/634	Red lights	
Oradea	Chimney	470526N 0215333E	981/591	NIL	
Dej	Antenna mast	470830N 0235249E	1122/351	NIL	
Dambu Mare	Antenna mast	470850N 0235728E	1450/344	NIL	
Holboca	Chimney	470850N 0274302E	663/551	NIL	
Iasi	Antenna mast	470855N 0273738E	476/344	NIL	
Iasi	Chimney	470858N 0273618E	463/341	NIL	
Iasi	Chimney	471003N 0272917E	673/499	NIL	
Uricani	2 antenna masts	471057N 0272726E	653/499	NIL	
Zalau	Antenna mast	471132N 0230240E	1371/344	NIL	
Simleu	Antenna mast	471404N 0224928E	1024/328	NIL	
Rus	Antenna mast	471615N 0233600E	1493/787	NIL	
Baia Mare	Chimney	473910N 0233616E	1932/1122	NIL	
Mihoveni	Antenna mast	473945N 0260905E	2421/701	Red lights	
Firiza	Chimney	474104N 0233719E	1329/394	NIL	



1	2	3	4	5	6
Botiz	2 antenna masts	475117N 0225827E	866/456	NIL	NIL
Sighet	Antenna mast	475252N 0235630E	1349/348	NIL	
Scheia	Antenna mast	475604N 0260606E	1953/647	NIL	
Săveni	Antenna mast	475600N 0265025E	1461/690	Red lights	
Turceni	Chimneys	444010N 0232428E	1312/919	NIL	
Mihai Viteazu	14 eolian powerplants	443746N 0283642E	1111/492	Lighted	
Boiu	Antenna mast	455610N 0230625E	2940/709	Lighted	
Strejnic	Antenna mast	445453N 0255220E	967/654	NIL	
Eforie	Antenna mast	440212N 0283725E	688/655	NIL	
Semenic	Antenna mast	451057N 0220316E	5389/376	NIL	
Bolotești	Antenna mast	455126N 0265659E	3583/364	Red lights	
Mintia	Chimneys	445444N 0224935E	1332/722	Nil	
Oncesti	Antenna mast	453832N 0235637E	5909/328	Red lights	
Limanu	Eolian power plants	434500N 0282828E	709/438	Red lights	
București	Building	442717N 0260453E	604/336	Red lights	
Băneasa	Antenna mast	440258N 0274507E	1167/528	Red lights	
Cogealac	102 eolian power plants	443356N 0282944E	1102/492	Red lights	
Fantanele	141 eolian power plants	443836N 0283209E	1156/492	Red lights	
Ciocarlia	5 eolian power plants	440827N 0281512E	717/327	Red lights	
Topraisar	3 eolian power plants	435844N 0283117E	513/327	Red lights	
Mihai Viteazu	4 eolian power plants	443951N 0283949E	636/327	Red lights	
Mihai Viteazu	3 eolian power plants	443704N 0283839E	843/327	Red lights	
Floresti	Buildings	464501N 0233101E	1601/410	Red lights	
Dorobantu	16 eolian power plants	445531N 0282008E	1334/492	Red lights	
Mamaia	Building	441308N 0283800E	349/338	Red lights	
Bucuresti	Building	442547N 0260151E	705/410	Red lights	
Fagarasu Nou	11 eolian power plants	445252N 0281340E	1014/410	Red lights	
Pantelimon	3 eolian power plants	443213N 0281927E	791/327	Red lights	
Pantelimon	2 eolian power plants	443218N 0281736E	893/327	Red lights	
Albesti	14 eolian power plants	463245N 0275458E	1558/492	Red lights	
Floreasca	Building	442836N 0260604E	606/330	Red lights	
Vutcani	12 eolian power plants	462835N 0275536E	1523/492	Red lights	
Pestera	28 eolian power plants	441153N 0280121E	930/492	Red lights	
Floreasca	Buildings	442755N 0260604E	724/446	Red lights	
Casimcea	6 eolian power plants	444334N 0281826E	1074/410	Red lights	
Rahmanu	15 eolian power plants	444934N 0281539E	1051/410	Red lights	
Baia	17 eolian power plants	444514N 0283913E	815/410	Red lights	
Casimcea	8 eolian power plants	444305N 0282031E	1206/410	Red lights	
Sacele	4 eolian power plants	442943N 0283429E	940/492	Red lights	
Pecineaga	24 eolian power plants	435232N 0282536E	786/492	Red lights	
Pecineaga	2 eolian power plants	435241N 0282921E	678/492	Red lights	
Siliștea	2 eolian power plants	442331N 0281139E	830/492	Red lights	
Crucea	2 eolian power plants	442906N 0281631E	897/492	Red lights	
Topolog	eolian power plant	445126N 0282004E	1111/340	Red lights	



1	2	3	4	5	6
Topolog	eolian power plant	445119N 0281945E	1086/340	Red lights	NIL
Vârlezi	3 eolian power plants	455231N 0275049E	1209/492	Red lights	
Tortoman	10 eolian power plants	442322N 0281049E	837/492	Red lights	
Târgușor	4 eolian power plants	442916N 0281925E	1133/492	Red lights	
Valea Nucarilor	12 eolian power plants	450156N 0285054E	1168/509	Red lights	
Valea Nucarilor	5 eolian power plants	450345N 0284904E	1068/509	Red lights	
Smulți	Eolian power plant	455543N 0274741E	1238/492	Red lights	
Peștera	31 eolian power plants	441153N 0280124E	922/492	Red lights	
Cernavodă	51 eolian power plants	441854N 0280947E	895/492	Red lights	
Constanța	Chimney	440931N 0283627E	1007/820	Red lights	
Tecuci	Tower	455330N 0272153E	684/345	Red lights	
Insurăței	93 eolian power plants	445819N 0273319E	563/492	Red lights	
Peștera	Tower	440802N 0280806E	709/328	Red lights	
Valea Nucărilor	12 eolian power plants	450208N 0285109E	1126/476	Red lights	
Smulti	1 eolian power	455541N 0274738E	1233/492	Red lights	
Nicolae Bălcescu	8 eolian power plants	442447N 0281535E	898/492	Red lights	
Pitești	Chimney	444825N 0245451E	1640/1017	NIL	
Broșteni	Eolian power plants	450129N 0214009E	1220/457	Red lights	
Casimcea	Eolian power plant	444637N 0281855E	1157/492	Red lights	
Casimcea	35 eolian power plant	444644N 0282150E	1460/459	Red lights	
Baia	15 eolian power plant	444514N 0283913E	860/492	Red lights	
Năvodari	Chimney	442041N 0283941E	368/361	Red lights	
Urziceni	Antenna	444235N 0263639E	497/335	NIL	
Grebanu	Eolian power plant	452503N 0265721E	1977/492	Red lights	
Zaplazi	3 eolian power plants	452518N 0265713E	2051/492	Red lights	
Casimcea	21 eolian power plants	444302N 0282027E	1287/492	Red lights	
Mircea Vodă	4 eolian power plants	441920N 0281215E	761/492	Red lights	
Coronini	21 eolian power plants	444043N 0214421E	1954/492	Red lights	
Homești	4 eolian power plants	452444N 0265549E	2269/492	Red lights	
Mahmudia	2 eolian power plants	450346N 0290417E	711/492	Red lights	
Mihai Viteazu	12 eolian power plants	443929N 0283554E	1023/476	Red lights	
Mihai Viteazu	10 eolian power plants	443907N 0283557E	997/476	Red lights	
Mihai Viteazu	10 eolian power plants	443819N 0283651E	924/476	Red lights	
Mihai Viteazu	8 eolian power plants	443758N 0283734E	971/476	Red lights	
Paltinis	Anemometric tower	481324N 0264445E	1050/343	Red lights	
Babadag	20 eolian power plants	445459N 0284042E	1001/414	Red lights	
Târgușor	25 eolian power plants	442906N 0281909E	1136/492	Red lights	
23 August	2 eolian power plants	435233N 0283321E	647/492	Red lights	
Cobadin	5 eolian power plants	440119N 0281051E	930/492	Red lights	
Pantelimon	3 eolian power plants	443420N 0281810E	1166/492	Red lights	



1	2	3	4	5	6
Surdila	14 eolian power plants	450621N 0271930E	623/492	Red lights	NIL
Maciseni	35 eolian power plants	455037N 0274341E	1197/492	Red lights	
Cudalbi	5 eolian power plants	454616N 0274619E	1080/509	Red lights	
Insuratei	5 eolian power plants	445254N 0273808E	618/492	Red lights	
Nicolae Balcescu	18 eolian power plants	442448N 0281750E	867/509	Red lights	
Silistea	17 eolian power plants	442919N 0281850E	1099/509	Red lights	
Târgușor	22 eolian power plants	442644N 0282211E	1004/509	Red lights	
Cobadin	14 eolian power plants	440652N 0281247E	936/492	Red lights	
Pechea	4 eolian power plants	453830N 0274436E	844/492	Red lights	
Schela	4 eolian power plants	453207N 0275107E	762/492	Red lights	
Stancuta	3 eolian power plants	445632N 0274152E	564/492	Red lights	
Topolog	4 eolian power plants	445409N 0282127E	1586/492	Red lights	
Topolog	3 eolian power plants	445344N 0282102E	1444/492	Red lights	
Topolog	4 eolian power plants	445309N 0282019E	1281/492	Red lights	
Tulcea	3 eolian power plants	450600N 0284650E	1121/574	Red lights	
Nicolae Balcescu	16 eolian power plants	442154N 0282312E	912/509	Red lights	
Târgușor	10 eolian power plants	442614N 0282527E	1037/495	Red lights	
Gemeenele	23 eolian power plants	451509N 0274020E	545/492	Red lights	
Gemeenele	1 anemometric tower	451731N 0274046E	487/328	Red lights	
Tortomanu	4 eolian power plants	441932N 0281755E	864/492	Red lights	
Horia	3 eolian power plants	444052N 0280731E	817/492	Red lights	
Ivanesti	1 anemometric tower	463610N 0272946E	1801/344	Red lights	
Poienesti	1 anemometric tower	463516N 0273037E	1761/344	Red lights	
Conachi	1 eolian power plant	453427N 0274704E	846/492	Red lights	
Lanurile	1 anemometric tower	440520N 0282335E	648/328	Red lights	
Negureni	1 anemometric tower	440655N 0274351E	758/344	Red lights	
Pantelimon	3 eolian power plants	443416N 0281743E	1166/492	Red lights	
Dudești	4 eolian power plants	445511N 0272741E	634/492	Red lights	
Pantelimon	13 eolian power plants	443209N 0281803E	1077/492	Red lights	
Pantelimon	12 eolian power plants	443208N 0282159E	1055/492	Red lights	
Pantelimon	30 eolian power plants	443100N 0281845E	1097/492	Red lights	
Gradina	3 eolian power plants	443439N 0282854E	813/344	Red lights	
Corbu	1 eolian power plant	442133N 0284114E	717/656	Red lights	
Lipovat	1 eolian power plant	463306N 0273927E	1698/492	Red lights	
Chirnogeni	32 eolian power plants	435328N 0280850E	995/476	Red lights	
București	Chimney	442218N 0260631E	1044/788	Red lights	

1	2	3	4	5	6
Topolog	42 eolian power plants	445420N 0282137E	1585/492	Red lights	NIL
Mihail Kogalniceanu	88 eolian power plants	443349N 0274609E	836/574	Red lights	
Casimcea	15 eolian power plants	444524N 0281932E	1295/490	Red lights	
Casimcea	27 eolian power plants	444649N 0281416E	1152/610	Red lights	
Mihai Bravu	3 eolian power plants	445625N 0283751E	874/443	Red lights	
Pogoanele	4 eolian power plants	445619N 0265809E	723/492	Red lights	
Stejaru	17 eolian power plants	444658N 0283334E	1373/489	Red lights	
Albesti	14 eolian power plants	463244N 0275458E	1537/476	Red lights	
Baleni	20 eolian power plants	454846N 0274738E	1115/491	Red lights	
Valea Nucarilor	2 eolian power plants	450434N 0285344E	790/328	Red lights	
Bestepe	3 eolian power plants	450332N 0285952E	859/481	Red lights	
Cerna	7 eolian power plants	450422N 0282027E	1270/491	Red lights	
Somova	1 eolian power plant	451050N 0283559E	1004/492	Red lights	
Vulturu	1 anemometric tower	443731N 0281429E	909/344	Red lights	
Ortisoara	Antenna	455801N 0211258E	821/386	Red lights	
Ortisoara	Antenna	455803N 0211254E	819/383	Red lights	
LRBC 388	ANTENNA	463618N 0265546E	1129/501 FT	MARKED/LGTD R	
LRBC 1036	STACK	463148N 0265617E	1229/748 FT	NIL	
LRBC 1037	STACK	463149N 0265620E	1207/726 FT	NIL	
LRBC 1962	ANTENNA	464521N 0265053E	1152/430 FT	MARKED/LGTD R	
LRBC 1964	ANTENNA	464448N 0265139E	1057/352 FT	MARKED/LGTD R	
LRBC 1965	ANTENNA	464500N 0265139E	1060/355 FT	MARKED/LGTD R	
LRBC 1966	ANTENNA	464503N 0265136E	1063/355 FT	MARKED/LGTD R	
LRBC 1967	ANTENNA	464519N 0265119E	1074/352 FT	MARKED/LGTD R	
LRBC 1968	ANTENNA	464516N 0265115E	1075/350 FT	MARKED/LGTD R	
LRBC 1969	ANTENNA	464512N 0265112E	1070/348 FT	MARKED/LGTD R	
LRBC 1970	ANTENNA	464508N 0265110E	1071/356 FT	MARKED/LGTD R	

AD 2. AERODROMES**LRAR AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRAR - ARAD / Arad****LRAR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	461036N 0211543E RWY centerline.
2	Direction and distance from city	3 km West from Arad
3	Elevation/Reference temperature/mean low temperature	353 FT (108 M) / 31.0°C / -11.0°C
4	Geoid undulation at AD ELEV PSN	140 FT
5	MAG VAR/ Annual rate of change	5°E (2019) / 7.0'E
6	AD Administration, address, telephone, telefax, telex, AFS	Aeroportul Arad, Arad, România Tel: +40-(0)257-339010 Fax: +40-(0)257-254482 Email: office@aradairport.ro Website: www.aeroportularad.ro Tel: +40-(0)257-254440 Ground Ops Fax: +40-(0)257-254546 Ground Ops Email: ground.op@aradairport.ro AFS: LRARRAYD SITA: ARWAAXH
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	NIL

LRAR 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

LRAR AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	747m ² of storage, dangerous good room, cargo equipments.
2	Fuel/Oil types	Fuel: Kerosene TH type JET A1 AVGAZ 100LL Oil: NIL
3	Fuelling facilities/capacity	1 refueling truck 14 t
4	De-icing facilities	1 de-icing unit with fluid type I and II.
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

LRAR AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the city.
2	Restaurants	Snack bar on the airport, restaurants in the city.
3	Transportation	Taxi from the AD.
4	Medical facilities	First aid at AD. Hospitals in the city.
5	Bank and Post Office	In the city.
6	Tourist Office	In the city.
7	Remarks	NIL

LRAR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 7
2	Rescue equipment	1 truck of 9000l, 1 truck of 5000l, foam and dry chemical powder.
3	Capability for removal of disabled aircraft	Only for code letter B aircraft, wingspan < 24 m. Air Operation Office: +40-(0)257-254440.
4	Remarks	NIL

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

1	Types of clearing equipment	2 trucks with snow plough or snow blower, 2 tractors with snow plough, RWY deicer spreader.
2	Clearance priorities	1. RWY 09/27 2. TWY A 3. APRON 2 4. APRON 1
3	Use of material for movement area surface treatment	KAC RWY cleaning de-icing fluid.
4	Specially prepared winter runways	NIL
5	Remarks	RCR is used for reporting assessed condition through the issuance of SNOWTAM, when necessary. RWY CC are assessed according GRF and transmitted to pilots by TWR Arad. Regarding information on snow clearance published, see the snow plan in section AD 1.2.

LRAR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron designation, surface and strength	APRON 1 Surface: Asphalt Strength: 6/R/C/W/T	APRON 2 Concrete 41/R/C/W/T
2	Taxiway designation, width, surface and strength	TWY A Width: 18 M Surface: Concrete Strength: 28/R/C/W/T	
3	ACL location and elevation	INS Apron 1 and Apron 2, elevation 352 FT.	
4	VOR checkpoints	NIL	
5	INS checkpoints	See AD 2.1-22	
6	Remarks	NIL	

LRAR 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 stand ID signs: 1, 2, 3, 4 and 5. Taxi to stands using TWY A and apron guide lines. Self parking procedures: Stop aircraft at yellow when STOP marking is in line pilot eye at an angle of 90° to the lead in line. Contingency procedures: parking guidance can be provided by marshaller in case of abnormal situation.
2	RWY and TWY markings and LGT	RWY: - markings: Designation, THR, TDZ, centre line, edges, aiming point. - lights: THR, centre line, TDZ, edge, END. TWY A: - markings: centre line, holding position marked, enhanced centre line. - lights: centre line, edge.
3	Stop bars and runway guard lights	Stop bars lights, guard lights on TWY A.
4	Other RWY protection measure	NIL
5	Remarks	THR 27 displaced 180M, turn pad on RWY END 27 - markings: centre line, edge line. - lights: centre line, edge, turn pad lights green.

LRAR 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
2	WATER TOWER	461030.2N 0211414.2E	425/ 76 FT	- / NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
7	POLE	461128.0N 0211611.1E	437/ 89 FT	- / -	
8	OTHER	461016.8N 0211708.7E	459/ 104 FT	- / -	
12	BUILDING	461013.5N 0211841.9E	508/ 144 FT	- / -	
13	WATER TOWER	461011.2N 0211829.1E	495/ 132 FT	- / -	
20	ANTENNA	461026.2N 0211906.5E	574/ 205 FT	Marked / LGT R	
25	TOWER	461320.8N 0211943.7E	1023/ 668 FT	- / -	
26	ANTENNA	461214.8N 0211423.0E	525/ 172 FT	- / -	
27	ANTENNA	461212.7N 0211905.9E	603/ 241 FT	- / -	
28	ANTENNA	461554.7N 0213949.6E	1958/ 395 FT	- / -	
29	ANTENNA	455802.6N 0211253.6E	819/ 386 FT	Marked / LGT R	
30	ANTENNA	455800.5N 0211257.6E	821/ 381 FT	Marked / LGT R	
102	NAVAID	461038.2N 0211606.7E	371/ 20 FT	- / LGT R	
103	NAVAID	461038.0N 0211606.8E	409/ 58 FT	Marked / LGT R	
105	OTHER	461038.7N 0211603.8E	383/ 27 FT	- / LGT R	
106	OTHER	461037.7N 0211610.5E	366/ 14 FT	Marked / LGT R	
210	POLE	461149.6N 0211611.5E	448/ 100 FT	- / -	
212	POLE	461134.5N 0211611.2E	439/ 90 FT	- / -	
213	ANTENNA	460907.3N 0211822.5E	496/ 137 FT	Marked / -	
215	POLE	460851.4N 0211752.5E	478/ 106 FT	- / -	
216	POLE	460857.7N 0211755.9E	465/ 102 FT	- / -	
217	POLE	460905.0N 0211800.0E	465/ 102 FT	- / -	
218	POLE	460908.3N 0211744.8E	464/ 102 FT	- / -	
219	POLE	460919.0N 0211748.5E	463/ 102 FT	- / -	
220	POLE	460924.6N 0211800.4E	485/ 102 FT	- / -	
222	TOWER	460943.8N 0211705.9E	463/ 105 FT	- / -	



a	b	c	d	e	f
223	TOWER	460944.2N 0211701.9E	496/ 138 FT	- / -	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
224	WASTERWATER_SYSTEM	461021.7N 0211706.3E	414/ 56 FT	- / -	
225	ANTENNA	461025.3N 0211734.3E	426/ 72 FT	Marked / -	
226	ANTENNA	461105.3N 0211817.8E	543/ 186 FT	Marked / LGT R	
227	ANTENNA	461106.8N 0211821.4E	532/ 176 FT	Marked / LGT R	
228	BUILDING	461212.5N 0211451.8E	470/ 114 FT	- / -	
229	DOME	461119.6N 0211801.9E	438/ 84 FT	- / -	
230	BUILDING	461122.0N 0211802.1E	494/ 136 FT	- / -	
231	BUILDING	461118.3N 0211813.8E	478/ 117 FT	- / -	
232	BUILDING	461116.9N 0211812.4E	481/ 126 FT	- / -	
233	BUILDING	461109.1N 0211805.9E	435/ 75 FT	- / -	
234	WATER_TOWER	461120.5N 0211849.3E	540/ 183 FT	- / -	
235	OTHER	461127.1N 0211944.5E	491/ 131 FT	- / -	
237	DOME	461100.3N 0211929.2E	545/ 179 FT	- / -	
238	ANTENNA	461055.8N 0211953.7E	559/ 194 FT	Marked / LGT R	
239	TOWER	461056.9N 0212001.8E	547/ 192 FT	- / -	
248	ANTENNA	460944.8N 0211924.3E	479/ 125 FT	- / -	
249	ANTENNA	460947.1N 0211923.8E	486/ 127 FT	- / -	
250	BUILDING	460949.1N 0211922.8E	474/ 116 FT	- / -	
251	BUILDING	460950.7N 0211922.2E	468/ 115 FT	- / -	
252	BUILDING	460952.9N 0211921.2E	475/ 116 FT	- / -	
253	BUILDING	460954.5N 0211920.5E	468/ 115 FT	- / -	
254	BUILDING	460956.8N 0211919.5E	474/ 114 FT	- / -	
256	ANTENNA	461018.1N 0211914.9E	508/ 146 FT	- / -	
257	OTHER	461031.7N 0211908.9E	517/ 155 FT	- / -	
258	OTHER	461031.8N 0211903.8E	484/ 123 FT	- / -	
259	BUILDING	461038.9N 0211912.2E	526/ 165 FT	- / -	
260	BUILDING	461020.8N 0211856.0E	537/ 176 FT	- / -	
261	BUILDING	461000.7N 0211842.2E	492/ 135 FT	- / -	
262	POLE	460945.8N 0211804.9E	474/ 115 FT	- / -	
263	POLE	460941.5N 0211804.8E	469/ 110 FT	- / -	
264	BUILDING	460836.2N 0212000.7E	494/ 121 FT	- / -	
265	BUILDING	461100.9N 0211929.2E	550/ 188 FT	- / -	
266	WATER_TOWER	461120.4N 0211849.9E	523/ 165 FT	- / -	
267	TOWER	461055.7N 0212003.1E	521/ 160 FT	- / LGT R	
268	TOWER	461056.6N 0212002.5E	545/ 184 FT	- / LGT R	
269	TOWER	461056.9N 0212001.8E	542/ 181 FT	- / LGT R	
270	TOWER	461320.5N 0211934.6E	886/ 532 FT	- / -	
272	ANTENNA	461014.5N 0211957.3E	538/ 105 FT	- / -	
321	ELECTRICAL_SYSTEM	461031.4N 0211647.8E	374/ 22 FT	- / LGT R	
322	ELECTRICAL_SYSTEM	461031.4N 0211647.8E	374/ 22 FT	- / LGT R	
323	ELECTRICAL_SYSTEM	461031.5N 0211647.8E	374/ 22 FT	- / LGT R	
324	ELECTRICAL_SYSTEM	461031.5N 0211647.8E	374/ 22 FT	- / LGT R	
325	ELECTRICAL_SYSTEM	461031.6N 0211646.4E	373/ 21 FT	- / LGT R	
326	ELECTRICAL_SYSTEM	461031.5N 0211646.4E	373/ 21 FT	- / LGT R	
327	ELECTRICAL_SYSTEM	461031.5N 0211646.4E	373/ 21 FT	- / LGT R	
328	ELECTRICAL_SYSTEM	461031.4N 0211646.4E	373/ 21 FT	- / LGT R	
329	ELECTRICAL_SYSTEM	461031.5N 0211645.0E	371/ 19 FT	- / LGT R	
330	ELECTRICAL_SYSTEM	461031.6N 0211645.0E	371/ 20 FT	- / LGT R	
331	ELECTRICAL_SYSTEM	461031.6N 0211645.0E	371/ 20 FT	- / LGT R	
332	ELECTRICAL_SYSTEM	461031.7N 0211645.0E	371/ 19 FT	- / LGT R	
333	ELECTRICAL_SYSTEM	461031.8N 0211643.6E	369/ 18 FT	- / LGT R	
334	ELECTRICAL_SYSTEM	461031.7N 0211643.6E	369/ 18 FT	- / LGT R	
335	ELECTRICAL_SYSTEM	461031.7N 0211643.6E	369/ 18 FT	- / LGT R	
336	ELECTRICAL_SYSTEM	461031.6N 0211643.6E	369/ 18 FT	- / LGT R	
337	ELECTRICAL_SYSTEM	461031.9N 0211642.3E	367/ 16 FT	- / LGT R	
338	ELECTRICAL_SYSTEM	461031.8N 0211642.3E	367/ 16 FT	- / LGT R	
339	ELECTRICAL_SYSTEM	461031.8N 0211642.2E	367/ 17 FT	- / LGT R	
340	ELECTRICAL_SYSTEM	461031.7N 0211642.2E	367/ 16 FT	- / LGT R	
341	ELECTRICAL_SYSTEM	461032.0N 0211640.9E	366/ 15 FT	- / LGT R	
342	ELECTRICAL_SYSTEM	461031.9N 0211640.9E	366/ 15 FT	- / LGT R	
343	ELECTRICAL_SYSTEM	461031.9N 0211640.8E	366/ 15 FT	- / LGT R	
344	ELECTRICAL_SYSTEM	461031.8N 0211640.8E	366/ 15 FT	- / LGT R	
345	ELECTRICAL_SYSTEM	461032.0N 0211639.5E	365/ 13 FT	- / LGT R	
346	ELECTRICAL_SYSTEM	461032.0N 0211639.5E	365/ 14 FT	- / LGT R	
347	ELECTRICAL_SYSTEM	461031.9N 0211639.4E	365/ 14 FT	- / LGT R	
348	ELECTRICAL_SYSTEM	461031.9N 0211639.5E	365/ 14 FT	- / LGT R	
349	ELECTRICAL_SYSTEM	461032.1N 0211638.1E	363/ 11 FT	- / LGT R	
350	ELECTRICAL_SYSTEM	461032.1N 0211638.1E	363/ 12 FT	- / LGT R	
351	ELECTRICAL_SYSTEM	461032.0N 0211638.1E	363/ 11 FT	- / LGT R	
352	ELECTRICAL_SYSTEM	461032.0N 0211638.1E	363/ 12 FT	- / LGT R	
353	ELECTRICAL_SYSTEM	461032.1N 0211636.7E	362/ 10 FT	- / LGT R	
354	ELECTRICAL_SYSTEM	461032.2N 0211636.7E	361/ 10 FT	- / LGT R	
355	ELECTRICAL_SYSTEM	461032.1N 0211636.7E	362/ 11 FT	- / LGT R	
356	ELECTRICAL_SYSTEM	461032.2N 0211636.7E	362/ 11 FT	- / LGT R	
10286	BUILDING	461032.7N 0211410.1E	401/ 57 FT	- / -	
10363	POLE	461018.9N 0211647.9E	404/ 50 FT	- / -	
10366	POLE	461019.4N 0211649.4E	407/ 53 FT	- / -	
10368	POLE	461020.2N 0211650.7E	412/ 58 FT	- / -	
10369	POLE	461021.0N 0211652.2E	416/ 62 FT	- / LGT R	
10370	POLE	461021.8N 0211653.7E	412/ 58 FT	- / -	
10372	POLE	461023.8N 0211655.6E	396/ 42 FT	- / -	
10373	POLE	461025.1N 0211656.0E	391/ 37 FT	- / -	

a	b	c	d	e	f
10374	POLE	461026.4N 0211656.4E	393/ 39 FT	- / -	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
10375	POLE	461027.6N 0211656.6E	391/ 37 FT	- / -	
10376	POLE	461028.8N 0211655.9E	375/ 20 FT	- / -	
10377	POLE	461029.5N 0211654.5E	373/ 20 FT	- / -	
10378	POLE	461029.1N 0211654.0E	387/ 32 FT	- / LGT R	
10379	POLE	461028.9N 0211652.7E	386/ 32 FT	- / -	
10380	POLE	461028.1N 0211651.8E	386/ 32 FT	10380	
10381	POLE	461028.0N 0211650.5E	389/ 35 FT	10381	
10383	POLE	461027.1N 0211651.6E	387/ 32 FT	- / -	
10384	POLE	461026.9N 0211650.8E	389/ 34 FT	- / -	
10386	POLE	461026.0N 0211651.8E	387/ 32 FT	- / -	
10387	POLE	461026.1N 0211650.5E	387/ 32 FT	- / -	
10388	POLE	461025.7N 0211651.2E	389/ 34 FT	- / -	
10390	POLE	461025.0N 0211652.1E	387/ 32 FT	- / -	
10391	POLE	461025.0N 0211650.6E	386/ 32 FT	- / -	
10392	POLE	461024.6N 0211651.5E	388/ 34 FT	- / -	
10403	POLE	461017.9N 0211653.2E	404/ 49 FT	- / -	
10556	POLE	461018.0N 0211653.4E	404/ 49 FT	- / -	
10557	POLE	461016.8N 0211653.4E	406/ 52 FT	- / -	
10558	POLE	461016.8N 0211653.6E	406/ 52 FT	- / -	
10563	POLE	461015.7N 0211653.6E	408/ 54 FT	- / -	
10564	POLE	461015.7N 0211653.8E	408/ 54 FT	- / -	
10566	POLE	461014.6N 0211653.8E	411/ 57 FT	- / -	
10567	POLE	461014.6N 0211654.0E	411/ 57 FT	- / -	
10568	POLE	461013.9N 0211653.4E	405/ 51 FT	- / -	
10569	POLE	461013.5N 0211654.0E	413/ 59 FT	- / -	
10570	POLE	461013.5N 0211654.2E	413/ 59 FT	- / -	
10571	POLE	461012.8N 0211653.5E	407/ 53 FT	- / -	
10572	POLE	461012.3N 0211654.1E	415/ 61 FT	- / -	
10573	POLE	461012.3N 0211654.3E	415/ 61 FT	- / -	
10574	POLE	461011.7N 0211653.7E	409/ 54 FT	- / -	
10575	POLE	461011.2N 0211654.2E	416/ 62 FT	- / -	
10576	POLE	461011.2N 0211654.4E	416/ 62 FT	- / -	
10577	POLE	461010.1N 0211654.4E	417/ 62 FT	- / -	
10578	POLE	461010.1N 0211654.6E	417/ 62 FT	- / -	
10579	POLE	461008.9N 0211654.5E	416/ 62 FT	- / -	
10580	POLE	461008.9N 0211654.7E	416/ 62 FT	- / -	
10581	POLE	461007.8N 0211654.6E	417/ 63 FT	- / -	
10582	POLE	461007.8N 0211654.8E	418/ 63 FT	- / -	
10583	POLE	461027.2N 0211650.2E	381/ 27 FT	- / -	
10584	POLE	461028.2N 0211649.9E	381/ 27 FT	- / -	
10585	POLE	461029.1N 0211650.2E	385/ 31 FT	- / -	
10589	POLE	461031.3N 0211649.5E	375/ 23 FT	- / LGT R	
10591	POLE	461031.3N 0211650.5E	372/ 21 FT	- / LGT R	
10592	POLE	461032.3N 0211650.0E	373/ 22 FT	- / LGT R	
10595	POLE	461033.5N 0211648.8E	384/ 33 FT	- / -	
10598	POLE	461034.6N 0211648.4E	384/ 33 FT	- / -	
10600	POLE	461034.4N 0211649.3E	384/ 33 FT	- / -	
10601	POLE	461035.7N 0211648.1E	385/ 34 FT	- / -	
10603	POLE	461035.4N 0211649.0E	385/ 34 FT	- / -	
10604	POLE	461036.4N 0211648.6E	386/ 35 FT	- / -	
10613	POLE	461041.1N 0211645.8E	408/ 57 FT	- / -	
10614	POLE	461041.2N 0211646.0E	408/ 57 FT	- / -	
10615	POLE	461042.2N 0211645.2E	410/ 59 FT	- / -	
10616	POLE	461042.3N 0211645.4E	410/ 59 FT	- / -	
10617	POLE	461043.2N 0211644.5E	410/ 59 FT	- / -	
10618	POLE	461043.3N 0211644.7E	410/ 60 FT	- / -	
10619	POLE	461044.2N 0211643.8E	410/ 62 FT	- / LGT R	
10620	POLE	461044.3N 0211644.0E	410/ 62 FT	- / LGT R	
10621	POLE	461045.2N 0211643.0E	409/ 61 FT	- / -	
10622	POLE	461045.3N 0211643.2E	409/ 61 FT	- / -	
10623	POLE	461046.2N 0211642.2E	408/ 60 FT	- / -	
10624	POLE	461046.3N 0211642.3E	408/ 60 FT	- / -	
10625	POLE	461047.1N 0211641.3E	406/ 58 FT	- / -	
10626	POLE	461047.2N 0211641.4E	406/ 58 FT	- / -	
10627	POLE	461048.0N 0211640.3E	403/ 55 FT	- / -	
10628	POLE	461048.1N 0211640.5E	403/ 55 FT	- / -	
10629	POLE	461048.9N 0211639.3E	401/ 53 FT	- / -	
10630	POLE	461049.0N 0211639.5E	401/ 53 FT	- / -	
10631	POLE	461049.8N 0211638.3E	399/ 51 FT	- / -	
10632	POLE	461049.9N 0211638.4E	399/ 51 FT	- / -	
10633	POLE	461050.6N 0211637.2E	399/ 51 FT	- / -	
10634	POLE	461050.7N 0211637.3E	399/ 51 FT	- / -	
10635	POLE	461051.5N 0211636.1E	397/ 50 FT	- / -	
10636	POLE	461051.5N 0211636.2E	397/ 50 FT	- / -	
10637	POLE	461052.2N 0211634.9E	398/ 50 FT	- / -	
10638	POLE	461052.3N 0211635.0E	398/ 50 FT	- / -	
10639	POLE	461053.7N 0211632.4E	397/ 50 FT	- / -	
10640	POLE	461053.8N 0211632.5E	397/ 50 FT	- / -	
10641	POLE	461029.9N 0211652.9E	372/ 20 FT	- / LGT R	
10642	POLE	461030.4N 0211651.5E	371/ 20 FT	- / LGT R	
10661	POLE	461054.3N 0211631.0E	397/ 50 FT	- / -	
10662	POLE	461054.4N 0211631.2E	397/50 FT	- / -	

a	b	c	d	e	f
10663	POLE	461055.0N 0211629.7E	397/ 49 FT	- / -	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
10664	POLE	461055.1N 0211629.8E	397/ 49 FT	- / -	
10675	POLE	461058.0N 0211621.0E	397/ 50 FT	- / -	
10676	POLE	461058.1N 0211621.1E	397/ 50 FT	- / -	
10677	POLE	461058.3N 0211619.5E	398/ 50 FT	- / -	
10678	POLE	461058.5N 0211619.5E	398/ 50 FT	- / -	
10679	POLE	461058.7N 0211617.9E	398/ 51 FT	- / -	
10680	POLE	461058.8N 0211618.0E	398/ 51 FT	- / -	
10681	POLE	461058.9N 0211616.3E	399/ 52 FT	- / -	
10682	POLE	461059.1N 0211616.4E	399/ 52 FT	- / -	
10683	POLE	461059.2N 0211614.7E	400/ 52 FT	- / -	
10684	POLE	461059.3N 0211614.8E	400/ 52 FT	- / -	
10685	POLE	461059.4N 0211613.1E	402/ 54 FT	- / -	
10686	POLE	461059.5N 0211613.2E	402/ 54 FT	- / -	
10687	POLE	461059.5N 0211611.4E	403/ 55 FT	- / -	
10688	POLE	461059.7N 0211611.4E	403/ 55 FT	- / -	
10689	POLE	461059.6N 0211609.9E	403/ 56 FT	- / -	
10690	POLE	461059.8N 0211609.9E	403/ 56 FT	- / -	
10691	POLE	461059.7N 0211608.3E	404/ 57 FT	- / -	
10692	POLE	461059.8N 0211608.3E	404/ 57 FT	- / -	
10693	POLE	461059.7N 0211606.6E	405/ 57 FT	- / -	
10694	POLE	461059.9N 0211606.6E	405/ 57 FT	- / -	
10695	POLE	461059.8N 0211605.0E	406/ 59 FT	- / -	
10696	POLE	461059.9N 0211605.0E	406/ 59 FT	- / -	
10697	POLE	461059.8N 0211603.4E	407/ 59 FT	- / -	
10698	POLE	461059.9N 0211603.4E	407/ 59 FT	- / -	
10699	POLE	461059.8N 0211601.8E	409/ 61 FT	- / -	
10700	POLE	461059.9N 0211601.8E	409/ 61 FT	- / -	
10701	POLE	461059.8N 0211600.1E	410/ 62 FT	- / -	
10702	POLE	461100.0N 0211600.1E	410/62 FT	- / -	
10703	POLE	461059.8N 0211558.5E	410/ 64 FT	- / -	
10704	POLE	461100.0N 0211558.5E	410/64 FT	- / -	
10705	POLE	461059.9N 0211556.9E	410/ 64 FT	- / -	
10706	POLE	461100.0N 0211556.9E	410/ 64 FT	- / -	
10707	POLE	461059.9N 0211555.2E	410/ 65 FT	- / LGT R	
10708	POLE	461100.0N 0211555.2E	410/ 65 FT	- / LGT R	
10709	POLE	461059.9N 0211553.6E	408/ 63 FT	- / -	
10710	POLE	461100.0N 0211553.6E	408/ 63 FT	- / -	
10711	POLE	461100.0N 0211552.0E	406/62 FT	- / -	
10712	POLE	461100.0N 0211552.0E	406/ 62 FT	- / -	
10713	POLE	461059.9N 0211550.4E	405/ 60 FT	- / -	
10714	POLE	461100.1N 0211550.4E	405/ 60 FT	- / -	
10715	POLE	461100.0N 0211548.7E	403/59 FT	- / -	
10716	POLE	461100.1N 0211548.7E	403/ 59 FT	- / -	
10717	POLE	461100.0N 0211547.1E	402/57 FT	- / -	
10718	POLE	461100.1N 0211547.1E	402/ 57 FT	- / -	
10719	POLE	461100.0N 0211545.4E	400/55 FT	- / -	
10720	POLE	461100.1N 0211545.4E	400/ 55 FT	- / -	
10721	POLE	461100.0N 0211543.8E	398/ 54 FT	- / -	
10722	POLE	461100.1N 0211543.8E	398/54 FT	- / -	
10723	POLE	461100.0N 0211542.2E	396/ 52 FT	- / -	
10724	POLE	461100.2N 0211542.2E	396/ 52 FT	- / -	
10725	POLE	461100.0N 0211540.6E	395/ 51 FT	- / -	
10726	POLE	461100.2N 0211540.6E	395/ 51 FT	- / -	
10727	POLE	461100.1N 0211538.9E	395/ 50 FT	- / -	
10728	POLE	461100.2N 0211538.9E	395/ 50 FT	- / -	
10729	POLE	461100.1N 0211537.3E	395/ 50 FT	- / -	
10730	POLE	461100.2N 0211537.3E	395/ 50 FT	- / -	
10731	POLE	461100.1N 0211535.7E	395/ 50 FT	- / -	
10732	POLE	461100.2N 0211535.7E	395/ 50 FT	- / -	
10733	POLE	461100.1N 0211534.1E	395/ 51 FT	- / -	
10734	POLE	461100.3N 0211534.1E	395/ 51 FT	- / -	
10735	POLE	461100.1N 0211532.4E	396/ 50 FT	- / -	
10736	POLE	461100.3N 0211532.4E	396/ 50 FT	- / -	
10737	POLE	461100.2N 0211530.8E	397/ 49 FT	- / -	
10744	POLE	461100.3N 0211519.4E	401/ 53 FT	- / -	
10745	POLE	461100.4N 0211519.4E	401/ 53 FT	- / -	
10746	POLE	461100.3N 0211521.0E	401/ 53 FT	- / -	
10747	POLE	461100.4N 0211521.0E	401/ 53 FT	- / -	
10753	POLE	461100.3N 0211517.8E	401/ 53 FT	- / -	
10754	POLE	461100.5N 0211517.8E	401/ 53 FT	- / -	
10755	POLE	461100.3N 0211516.1E	401/ 54 FT	- / -	
10756	POLE	461100.5N 0211516.1E	401/ 54 FT	- / -	
10757	POLE	461100.4N 0211514.5E	401/ 53 FT	- / -	
10758	POLE	461100.5N 0211514.5E	401/ 53 FT	- / -	
10763	POLE	461100.4N 0211512.8E	400/ 52 FT	- / -	
10764	POLE	461100.5N 0211512.9E	400/ 52 FT	- / -	
10765	POLE	461100.4N 0211511.2E	399/ 52 FT	- / -	
10766	POLE	461100.5N 0211511.2E	399/ 52 FT	- / -	
10767	POLE	461100.4N 0211509.6E	399/ 52 FT	- / -	
10768	POLE	461100.6N 0211509.6E	399/ 52 FT	- / -	
10769	POLE	461100.5N 0211508.0E	398/ 51 FT	- / -	
10770	POLE	461100.6N 0211508.0E	398/ 51 FT	- / -	



a	b	c	d	e	f
10771	POLE	461100.5N 0211506.3E	397/ 50 FT	- / -	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
10772	POLE	461100.6N 0211506.3E	397/ 49 FT	- / -	
10773	POLE	461100.5N 0211504.7E	397/ 51 FT	- / -	
10774	POLE	461100.7N 0211504.7E	397/ 51 FT	- / -	
10775	POLE	461100.6N 0211503.1E	397/ 52 FT	- / -	
10776	POLE	461100.7N 0211503.1E	397/ 51 FT	- / -	
10777	POLE	461100.7N 0211501.4E	396/ 51 FT	- / -	
10778	POLE	461100.8N 0211501.5E	396/ 50 FT	- / -	
10779	POLE	461100.8N 0211459.8E	395/ 49 FT	- / -	
10781	POLE	461101.0N 0211458.2E	395/ 50 FT	- / -	
10782	POLE	461101.1N 0211458.2E	395/ 50 FT	- / -	
10783	POLE	461101.1N 0211456.6E	394/ 50 FT	- / -	
10784	POLE	461101.2N 0211456.6E	394/ 50 FT	- / -	
10809	POLE	461102.0N 0211440.8E	395/ 50 FT	- / -	
10810	POLE	461102.0N 0211439.4E	396/ 52 FT	- / -	
10811	POLE	461102.0N 0211438.0E	398/ 54 FT	- / -	
10812	POLE	461102.1N 0211436.7E	401/ 56 FT	- / -	
10829	POLE	461107.0N 0211432.4E	406/ 61 FT	- / -	
10830	POLE	461107.9N 0211433.8E	414/ 69 FT	- / -	
10831	POLE	461108.3N 0211433.2E	415/ 71 FT	- / -	
10832	POLE	461106.4N 0211431.3E	417/ 72 FT	- / -	
10833	POLE	461105.7N 0211430.1E	417/ 72 FT	- / -	
10834	POLE	461106.1N 0211429.6E	416/ 71 FT	- / -	
10835	POLE	461106.8N 0211430.8E	417/ 73 FT	- / -	
10836	POLE	461107.2N 0211431.6E	416/ 72 FT	- / -	
10837	POLE	461107.5N 0211430.6E	394/ 50 FT	- / -	
10838	POLE	461107.7N 0211430.7E	394/ 50 FT	- / -	
10839	POLE	461108.1N 0211429.2E	394/ 50 FT	- / -	
10840	POLE	461108.3N 0211429.3E	394/ 50 FT	- / -	
10841	POLE	461108.7N 0211427.8E	395/ 50 FT	- / -	
10842	POLE	461108.9N 0211427.9E	395/ 50 FT	- / -	
10843	POLE	461109.4N 0211426.4E	395/ 50 FT	- / -	
10844	POLE	461109.5N 0211426.5E	395/ 50 FT	- / -	
10845	POLE	461110.0N 0211425.1E	395/ 51 FT	- / -	
10846	POLE	461110.1N 0211425.2E	395/ 51 FT	- / -	
10850	POLE	461107.8N 0211425.7E	396/ 52 FT	- / -	
10851	POLE	461106.9N 0211425.8E	400/ 55 FT	- / -	
10852	POLE	461102.2N 0211416.9E	402/ 58 FT	- / -	
10853	POLE	461101.2N 0211416.9E	408/ 63 FT	- / -	
10854	POLE	461102.1N 0211415.1E	395/ 51 FT	- / -	
10855	POLE	461101.1N 0211415.2E	405/ 61 FT	- / -	
10856	POLE	461102.1N 0211413.6E	399/ 55 FT	- / -	
10857	POLE	461101.2N 0211413.5E	403/ 59 FT	- / -	
10858	POLE	461102.2N 0211418.3E	406/ 61 FT	- / -	
10859	POLE	461101.2N 0211418.4E	409/ 65 FT	- / -	
10860	POLE	461101.3N 0211411.9E	401/ 56 FT	- / -	
10861	POLE	461102.2N 0211412.1E	397/ 53 FT	- / -	
10927	SIGN	461101.5N 0211419.0E	404/ 60 FT	- / -	
10929	SIGN	461101.7N 0211418.9E	403/ 58 FT	- / -	
11059	POLE	461030.3N 0211649.9E	374/ 22 FT	- / LGT R	
11063	POLE	461032.4N 0211649.2E	375/ 24 FT	- / -	
11065	POLE	461033.3N 0211649.7E	375/ 24 FT	- / -	
11071	POLE	461036.8N 0211647.8E	382/ 31 FT	- / -	
11092	OTHER	461028.2N 0211628.2E	370/ 18 FT	Marked / -	
11093	OTHER	461035.7N 0211456.5E	362/ 15 FT	Marked / -	
11124	ANTENNA	461029.7N 0211647.6E	383/ 29 FT	- / LGT R	
11130	ANTENNA	461029.2N 0211649.5E	374/ 20 FT	- / -	
11132	ANTENNA	461040.5N 0211443.5E	363/ 17 FT	- / LGT R	
11133	ANTENNA	461038.4N 0211443.2E	363/ 17 FT	- / LGT R	
11134	ANTENNA	461020.0N 0211639.6E	423/ 68 FT	Marked / LGT R	
11135	ANTENNA	461018.1N 0211639.4E	403/ 51 FT	Marked / LGT R	
11136	ANTENNA	461116.8N 0211414.1E	415/ 71 FT	- / -	

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
397	ELECTRICAL SYS	461032.8N 0211631.1E	354.8/ 3.0 FT	- / LGT R	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
400	ELECTRICAL SYS	461032.2N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
401	ELECTRICAL SYS	461032.4N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
402	ELECTRICAL SYS	461032.5N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
403	ELECTRICAL SYS	461032.1N 0211631.0E	354.9/ 3.0 FT	- / LGT R	
404	ELECTRICAL SYS	461032.5N 0211631.1E	354.8/ 2.7 FT	- / LGT R	
405	ELECTRICAL SYS	461032.9N 0211631.2E	354.9/ 2.8 FT	- / LGT R	
406	ELECTRICAL SYS	461032.2N 0211631.1E	354.8/ 3.0 FT	- / LGT R	
407	ELECTRICAL SYS	461038.1N 0211456.8E	349.8/ 2.3 FT	- / LGT R	
408	ELECTRICAL SYS	461039.1N 0211456.9E	349.5/ 2.3 FT	- / LGT R	
409	ELECTRICAL SYS	461038.0N 0211456.8E	349.8/ 2.3 FT	- / LGT R	
410	ELECTRICAL SYS	461038.2N 0211456.8E	349.6/ 2.0 FT	- / LGT R	
411	ELECTRICAL SYS	461037.9N 0211456.7E	349.8/ 2.4 FT	- / LGT R	
412	ELECTRICAL SYS	461039.2N 0211456.9E	349.3/ 2.3 FT	- / LGT R	



a	b	c	d	e	f
413	ELECTRICAL SYS	461038.9N 0211456.9E	349.6/ 2.3 FT	- / LGT R	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
414	ELECTRICAL SYS	461039.3N 0211456.9E	349.2/ 2.2 FT	- / LGT R	
415	ELECTRICAL SYS	461038.3N 0211456.8E	349.8/ 2.2 FT	- / LGT R	
416	ELECTRICAL SYS	461039.0N 0211456.9E	349.5/ 2.2 FT	- / LGT R	
10106	BUILDING	461020.5N 0211637.0E	361.2/ 9.2 FT	- / -	
10134	BUILDING	461021.8N 0211640.4E	384.1/ 31.6 FT	- / LGT R	
10137	BUILDING	461021.8N 0211643.1E	384.1/ 32.3 FT	- / LGT R	
10164	BUILDING	461021.8N 0211638.4E	385.5/ 32.3 FT	- / -	
10187	BUILDING	461019.7N 0211637.2E	361.8/ 9.2 FT	- / -	
10199	BUILDING	461018.0N 0211633.8E	361.6/ 8.6 FT	- / -	
10208	BUILDING	461017.5N 0211635.2E	378.3/ 25.5 FT	- / -	
10209	BUILDING	461017.2N 0211634.8E	378.3/ 25.5 FT	- / -	
10212	BUILDING	461017.7N 0211627.9E	363.5/ 11.2 FT	- / -	
10230	BUILDING	461019.7N 0211617.7E	391.3/ 39.4 FT	- / LGT R	
10238	BUILDING	461020.1N 0211614.4E	391.3/ 39.3 FT	- / LGT R	
10301	OTHER	461034.4N 0211621.5E	356.2/ 3.3 FT	- / -	
10302	OTHER	461034.7N 0211621.5E	356.0/ 4.1 FT	- / -	
10303	OTHER	461035.1N 0211621.6E	355.7/ 3.6 FT	- / -	
10304	OTHER	461035.4N 0211621.6E	355.5/ 3.5 FT	- / -	
10305	OTHER	461035.7N 0211621.6E	355.8/ 4.0 FT	- / -	
10306	OTHER	461036.0N 0211621.7E	356.0/ 4.3 FT	- / -	
10307	OTHER	461035.0N 0211609.0E	355.5/ 3.5 FT	Marked / -	
10308	OTHER	461035.0N 0211607.6E	355.3/ 3.3 FT	Marked / -	
10309	OTHER	461035.1N 0211606.2E	355.6/ 3.5 FT	Marked / -	
10310	OTHER	461036.1N 0211605.7E	355.3/ 3.8 FT	- / -	
10311	OTHER	461035.8N 0211605.7E	355.3/ 3.6 FT	- / -	
10312	OTHER	461035.4N 0211605.6E	355.6/ 3.7 FT	- / -	
10313	OTHER	461035.2N 0211604.8E	355.6/ 3.7 FT	Marked / -	
10314	OTHER	461035.3N 0211603.4E	354.9/ 3.1 FT	Marked / -	
10315	OTHER	461035.4N 0211602.0E	355.3/ 3.6 FT	Marked / -	
10318	POLE	461021.0N 0211610.6E	374.5/ 22.8 FT	- / -	
10319	POLE	461021.0N 0211611.3E	374.5/ 22.8 FT	- / -	
10320	POLE	461020.8N 0211611.8E	374.5/ 22.8 FT	- / -	
10321	POLE	461020.7N 0211612.4E	374.5/ 22.8 FT	- / -	
10322	POLE	461021.0N 0211610.8E	362.4/ 10.7 FT	- / -	
10328	OTHER	461035.5N 0211600.6E	354.3/ 3.0 FT	Marked / -	
10329	OTHER	461035.6N 0211559.2E	354.5/ 3.3 FT	Marked / -	
10330	OTHER	461035.7N 0211557.8E	354.5/ 3.3 FT	Marked / -	
10331	OTHER	461035.8N 0211556.4E	354.3/ 3.4 FT	Marked / -	
10332	OTHER	461035.8N 0211555.0E	353.9/ 3.0 FT	Marked / -	
10333	OTHER	461036.0N 0211552.3E	353.9/ 3.6 FT	Marked / -	
10334	OTHER	461036.1N 0211550.9E	353.5/ 3.6 FT	Marked / -	
10335	OTHER	461036.2N 0211549.5E	352.9/ 3.0 FT	Marked / -	
10336	OTHER	461036.4N 0211548.0E	352.8/ 3.5 FT	Marked / -	
10337	OTHER	461036.4N 0211548.1E	352.8/ 3.7 FT	Marked / -	
10404	OTHER	461034.2N 0211549.2E	353.1/ 3.0 FT	Marked / -	
10405	OTHER	461034.1N 0211550.6E	353.1/ 2.9 FT	Marked / -	
10406	OTHER	461034.0N 0211552.0E	353.4/ 3.0 FT	Marked / -	
10407	OTHER	461033.9N 0211553.4E	353.8/ 3.3 FT	Marked / -	
10408	OTHER	461033.8N 0211554.8E	354.1/ 3.5 FT	Marked / -	
10409	OTHER	461033.7N 0211556.2E	354.1/ 3.3 FT	Marked / -	
10410	OTHER	461033.7N 0211557.6E	353.2/ 2.5 FT	Marked / -	
10411	OTHER	461033.5N 0211559.0E	354.2/ 3.3 FT	Marked / -	
10412	OTHER	461033.4N 0211600.3E	354.6/ 3.3 FT	Marked / -	
10413	OTHER	461033.4N 0211601.7E	354.8/ 3.5 FT	Marked / -	
10414	OTHER	461033.3N 0211603.1E	354.2/ 3.3 FT	Marked / -	
10415	OTHER	461033.2N 0211604.5E	354.4/ 3.1 FT	Marked / -	
10416	OTHER	461033.1N 0211605.9E	354.9/ 3.3 FT	Marked / -	
10417	OTHER	461033.0N 0211607.3E	355.4/ 3.8 FT	Marked / -	
10418	OTHER	461032.8N 0211610.1E	355.4/ 3.7 FT	Marked / -	
10419	OTHER	461032.5N 0211615.7E	355.7/ 4.2 FT	Marked / -	
10420	OTHER	461032.4N 0211617.0E	355.8/ 3.9 FT	Marked / -	
10421	OTHER	461032.3N 0211618.4E	355.6/ 3.7 FT	Marked / -	
10422	OTHER	461032.0N 0211624.0E	355.7/ 3.3 FT	Marked / -	
10423	OTHER	461031.9N 0211624.1E	355.5/ 3.3 FT	Marked / -	
10424	OTHER	461026.2N 0211631.8E	355.1/ 4.0 FT	Marked / -	
10521	FENCE	461022.2N 0211604.9E	357.4/ 6.6 FT	- / -	
10522	FENCE	461019.7N 0211619.5E	358.6/ 6.6 FT	- / -	
10523	FENCE	461019.5N 0211620.6E	358.2/ 6.6 FT	- / -	
10525	FENCE	461024.9N 0211549.1E	357.0/ 7.9 FT	- / -	
10527	FENCE	461024.6N 0211549.1E	358.6/ 7.9 FT	- / -	
10528	FENCE	461025.0N 0211545.3E	357.7/ 7.9 FT	- / -	
10529	FENCE	461025.4N 0211542.2E	358.0/ 7.9 FT	- / -	
10534	FENCE	461027.7N 0211528.5E	356.9/ 7.9 FT	- / -	
10548	FENCE	461017.4N 0211633.8E	360.8/ 6.6 FT	- / -	
10549	FENCE	461017.5N 0211632.9E	359.6/ 6.6 FT	- / -	
10550	FENCE	461016.4N 0211632.4E	361.0/ 6.6 FT	- / -	
10551	FENCE	461016.5N 0211631.3E	361.4/ 6.6 FT	- / -	
10552	FENCE	461016.6N 0211630.5E	359.2/ 6.6 FT	- / -	
10554	FENCE	461017.5N 0211629.6E	359.4/ 6.6 FT	- / -	
10555	FENCE	461018.0N 0211629.7E	359.2/ 6.6 FT	- / -	
10643	POLE	461021.1N 0211639.8E	386.5/ 32.2 FT	- / -	
10931	OTHER	461037.2N 0211458.2E	350.3/ 3.3 FT	- / -	
10932	OTHER	461036.9N 0211502.0E	351.0/ 3.6 FT	- / -	

a	b	c	d	e	f
10933	OTHER	461036.0N 0211518.6E	350.9/ 3.0 FT	- / -	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
10934	OTHER	461035.7N 0211521.1E	351.2/ 3.5 FT	- / -	
10935	OTHER	461031.6N 0211625.1E	355.0/ 3.5 FT	- / -	
10936	OTHER	461028.2N 0211629.8E	353.9/ 3.4 FT	- / -	
10937	OTHER	461029.1N 0211632.5E	354.5/ 2.9 FT	- / -	
10938	OTHER	461026.0N 0211631.3E	354.0/ 3.3 FT	- / -	
10939	OTHER	461026.0N 0211631.3E	353.9/ 3.3 FT	- / -	
10940	OTHER	461026.8N 0211633.6E	355.3/ 3.0 FT	- / -	
10941	OTHER	461026.8N 0211633.7E	355.2/ 3.5 FT	- / -	
10942	OTHER	461023.8N 0211632.9E	354.4/ 3.9 FT	- / -	
10943	OTHER	461034.6N 0211458.2E	352.5/ 6.2 FT	- / -	
10945	OTHER	461021.8N 0211636.7E	383.5/ 31.1 FT	- / LGT R	
10946	OTHER	461021.1N 0211637.0E	380.1/ 27.5 FT	- / LGT R	
10980	OTHER	461038.9N 0211511.0E	350.5/ 3.3 FT	- / LGT R	
10981	OTHER	461039.2N 0211511.0E	350.5/ 3.8 FT	- / LGT R	
10982	OTHER	461039.5N 0211511.1E	350.5/ 4.1 FT	- / LGT R	
10983	OTHER	461039.8N 0211511.1E	350.3/ 4.0 FT	- / LGT R	
11040	OTHER	461026.0N 0211636.3E	355.5/ 3.0 FT	- / LGT R	
11042	OTHER	461025.9N 0211638.4E	355.5/ 3.2 FT	- / LGT R	
11044	OTHER	461025.9N 0211641.6E	354.7/ 2.2 FT	- / LGT R	
11086	OTHER	461022.0N 0211641.0E	376.4/ 22.1 FT	- / LGT R	
11087	OTHER	461021.9N 0211642.1E	376.4/ 22.1 FT	- / LGT R	
11088	OTHER	461021.9N 0211643.2E	376.3/ 21.9 FT	- / LGT R	
11089	OTHER	461021.8N 0211637.9E	383.5/30.6 FT	- / LGT R	
11092	OTHER	461028.2N 0211628.2E	370.3/ 17.7 FT	Marked / -	
11094	OTHER	461036.4N 0211546.7E	352.9/ 3.3 FT	Marked / -	
11095	OTHER	461036.5N 0211545.3E	352.9/ 3.5 FT	Marked / -	
11096	OTHER	461036.6N 0211544.0E	353.3/ 4.0 FT	Marked / -	
11097	OTHER	461036.7N 0211542.6E	352.3/ 2.9 FT	Marked / -	
11098	OTHER	461036.7N 0211541.2E	352.8/ 3.7 FT	Marked / -	
11099	OTHER	461036.8N 0211539.8E	352.3/ 3.3 FT	Marked / -	
11100	OTHER	461034.8N 0211539.5E	352.8/ 3.7 FT	Marked / -	
11101	OTHER	461034.7N 0211540.9E	352.6/ 3.4 FT	Marked / -	
11102	OTHER	461034.6N 0211542.3E	352.6/ 3.3 FT	Marked / -	
11103	OTHER	461034.5N 0211543.6E	352.8/ 3.3 FT	Marked / -	
11104	OTHER	461034.5N 0211545.0E	353.2/ 3.5 FT	Marked / -	
11105	OTHER	461034.4N 0211546.4E	353.3/ 3.5 FT	Marked / -	
11106	OTHER	461034.3N 0211547.8E	353.1/ 3.1 FT	Marked / -	
11110	ANTENNA	461022.4N 0211638.5E	417.4/ 65.5 FT	Marked / LGT R	
11111	ANTENNA	461019.0N 0211621.5E	382.0/ 27.3 FT	- / -	
11112	ANTENNA	461019.7N 0211636.7E	400.4/ 48.1 FT	- / -	
11113	ANTENNA	461019.6N 0211636.6E	404.4/ 52.1 FT	- / -	
11114	ANTENNA	461019.7N 0211636.4E	410.0/ 57.6 FT	- / -	
11115	ANTENNA	461019.5N 0211635.8E	409.5/ 57.1 FT	- / LGT R	
11116	ANTENNA	461019.3N 0211636.0E	406.1/ 53.7 FT	- / -	
11117	ANTENNA	461019.2N 0211635.4E	408.9/ 56.5 FT	- / -	
11118	ANTENNA	461019.0N 0211635.5E	399.6/ 47.2 FT	- / -	
11119	ANTENNA	461018.7N 0211634.8E	411.6/ 59.3 FT	- / -	
11120	ANTENNA	461018.6N 0211634.9E	405.4/ 53.1 FT	- / -	
11122	ANTENNA	461017.7N 0211634.4E	387.6/ 33.2 FT	- / -	
11123	ANTENNA	461016.9N 0211634.1E	415.5/ 61.2 FT	- / -	
11125	ANTENNA	461032.7N 0211500.3E	362.1/ 14.7 FT	- / -	
11126	ANTENNA	461032.3N 0211501.4E	375.6/ 26.6 FT	- / -	
11127	ANTENNA	461032.3N 0211501.6E	363.6/ 14.7 FT	- / -	
11128	ANTENNA	461032.5N 0211501.6E	366.8/ 17.7 FT	- / -	
11129	ANTENNA	461032.6N 0211503.4E	389.3/ 42.2 FT	- / LGT R	
11153	FENCE	461018.6N 0211626.0E	358.6/ 6.6 FT	- / -	
11154	FENCE	461019.1N 0211623.0E	357.9/ 6.6 FT	- / -	
11200	FENCE	461028.7N 0211522.3E	357.7/ 7.9 FT	- / -	

**LRAR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	ARAD
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)257-281532 Fax: +40-(0)257-281532
9	ATS units provided with information	TWR
10	Additional information (limitation of service, etc.)	NIL

LRAR 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	THR elevation and highest elevation of TDZ of precision	Slope of RWY-SWY	
				RWY end coord THR geoid undulation	APP RWY		
1	2	3	4	5	6	7	
09	095.28°	2000 x 45	41/R/C/W/T Concrete	461038.57N 0211456.86E 461033.14N 0211621.34E GUND 141 FT	THR 345 FT	0.1%	
27	275.30°	2000 x 45	41/R/C/W/T Concrete	461033.14N 0211621.34E 461038.57N 0211456.86E GUND 143 FT	THR 351 FT	-0.1%	
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	NIL	2120 x 300	220 x 90	NIL		Yes	The transverse slopes of the RWY are not symmetrical along the RWY length. Certain determined values do not fall within the 1-1.5% limits.
NIL	500 x 180	2120 x 300	240 x 90	NIL		Yes	

LRAR AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
09	1820	1820	1820	1820	NIL
27	2000	2500	2000	1820	NIL



LRAR AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT	RWY edge LGT	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
	type				Length, spacing, colour, INTST	LEN, spacing, colour, INTST			
1	2	3	4	5	6	7	8	9	10
09	CAT I 720 M LIH	Green	PAPI Left/3°	NIL	900M, 15M, White, LIH 600M, 15M, White/Red, LIH 300M, 15M, Red, LIH	1200M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red	NIL	NIL
27	CAT II 570 M LIH	Green	PAPI Left/3°	900 M LIH	1100M, 15M, White, LIH 600M, 15M, White/Red, LIH 300M, 15M, Red, LIH	1400M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red	NIL	TURN PAD LIH GREEN

LRAR 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 NIL
3	TWY edge and centre line lighting	TWY A: edge lights, blue, LIL, centre line, green lights and alternate green-yellow exit to TWY A, LIH, stop bar, red lights, LIH, Guard lights.
4	Secondary power supply/switch-over time	Secondary power supply to all lighting at AD, switch-over time 1 SEC.
5	Remarks	Lighting panels "NO ENTRY".

LRAR AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO	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

LRAR AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	ARAD CTR 461630N 0210625E - 461453N 0213131E - 460420N 0213007E - 460617N 0205955E - 461559N 0210113E - FIR BOUNDARY - 461630N 0210625E
2	Vertical limits	GND TO 2500 FT AMSL
3	Airspace classification	C
4	ATS unit call sign Language(s)	Arad Tower English, Romanian
5	Transition altitude	9000 FT (2750 M) AMSL
6	Hours of applicability	H24
7	Remarks	NIL

LRAR AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	Arad Tower	118.230 130.200 MHz ALTN	NIL	NIL	H24	Exempted 8.33 kHz State aircraft.
APP	Arad Approach	121.500 MHz EMERG 123.530 126.350 MHz ALTN	NIL	NIL	H24	Exempted 8.33 kHz State aircraft.



LRAR 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
DVOR/DME (5°E/2017)	ARD	109.000 MHz CH 27X	H24	461102.7N 0210837.0E	400 FT	Coverage 175 NM (assumed)
LOC 27 (5°E/2017) ILS CAT II	IAD	110.700 MHz	H24	461039.4N 0211443.8E		Front course angle 5.8° No back course
GP 27	-	330.200 MHz	H24	461038.0N 0211606.8E		GP Angle 3°, ILS RDH 54 FT.
DME 27	IAD	- CH 44X	H24	461038.2N 0211606.7E	400 FT	
NDB(LO)	ARD	517 KHz	H24	461102.4N 0210841.6E		272°MAG / 4.37 NM (8.1 KM) from THR 09 Coverage 50 NM (declared)

LRAR AD 2.20 LOCAL AERODROME REGULATIONS

1. Standard Taxi Routes / Rutele Standard de Rulare

1.1 Arrival Information

Arrival on	Instruction given by ATC				Taxiway to be followed	Remarks
		Name of the Standard Taxi Route				
RWY 27	Taxi via standard taxi route	ARR 27	To	APRON 2	Back track on RWY 27 to TWY A report runway vacated	If Follow Me not requested, follow TWY A centre line & light to the stand. Standard taxi routes applied also for helicopters operations.
				APRON 1	Back track on RWY 27 to TWY A report runway vacated	
RWY 09	Taxi via standard taxi route	ARR 09	To	APRON 1 & 2	Taxi to exit RWY via TWY A and report runway vacated	

1.2 Departure Information

Departure from	Instruction given by ATC				Taxiway to be followed	Remarks
		Name of the Standard Taxi Route				
APRON 2	Taxi via standard taxi route	DEP 27	To holding position	RWY 27	Taxi approved via TWY A to holding position, enter in line up RWY 27	If Follow Me not requested, follow TWY A centre line & light to RWY holding position. Standard taxi routes applied also for helicopters operations.
APRON 1						
APRON 1 & 2	Taxi via standard taxi route	DEP 09	To holding position	RWY 09	Taxi approved via TWY A to holding position, enter in line up RWY 09	

2. Airport regulations / Reguli de aeroport

2.1 Before landing on airport or before filling LRAR as alternate for aircraft with maximum ACN higher than 41 for rigid pavements subgrades code C operators are required to contact airport administration for permission to operate on aerodrome.

2.2 Apron 1 exclusively for General Aviation.

2.3 Aircraft Parking at Apron 1 and 2 is done exclusively following Marshaller signals.

2.1 Înainte de operarea pe aeroport sau înainte de a declara LRAR ca aeroport de rezervă, pentru aeronavele cu ACN mai mare decât 41 pentru suprafață rigidă categoria C operatorii sunt obligați să ia legătura cu administrația aeroportului pentru obținerea permisiunii de a opera pe aerodrom.

2.2 Apron 1 destinată exclusiv aviației generale.

2.3 Parcarea aeronavelor la Apron 1 și Apron 2 se face exclusiv cu asistența dispecerului sol.

LRAR AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3



LRAR AD 2.22 FLIGHT PROCEDURES

1. P-RNAV REQUIREMENTS

RNAV SID and STAR procedures within ARAD 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 insert designator "P" in Item 10 of the flight plan according to ICAO Doc 7030 Regional Supplementary Procedures.

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.

On both RWY directions, tactical points for non-standard shorter approach are established: for arrival Arad RWY 09 – WPT AR111, for arrivals Arad RWY 27 – WPT AR211. 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.

2. RADIO COMMUNICATION FAILURE PROCEDURE FOR IFR FLIGHTS

a) General procedure when no STARs are in use

Set transponder to 7600 and continue flight at the last flight level/altitude assigned by ATC to ARD VOR/DME. Descend in holding pattern over ARD VOR/DME, then execute an instrument approach procedure.

b) Communication failure procedure when conducting a P-RNAV or conventional SID

Set transponder to 7600. Continue on assigned and acknowledged SID. After 2 minutes climb to FPL flight level. If being vectored, continue on assigned heading for 2 minutes, then proceed direct to last SID (WPT or REP, as appropriate) climbing to FPL flight level.

c) Communication failure procedure when conducting a P-RNAV STAR

If STAR was assigned and acknowledged by air crew, set transponder to 7600, continue with FPL and assigned STAR, then execute an instrument approach procedure and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600.

If STAR was assigned and acknowledged by air crew and vectoring was initiated, set transponder to 7600 and continue on assigned heading and last cleared and acknowledged altitude for 2 minutes from setting 7600. Then proceed direct FAP/FAF and execute an instrument approach procedure and land. Descending shall be executed in accordance with vertical restrictions specified on chart.

If STAR was not assigned, set transponder to 7600, proceed according to FPL and FPL STAR, execute an instrument approach procedure and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600. If landing is not possible execute missed approach and proceed to FAP/FAF of most convenient RWY, execute an instrument approach procedure and land.

d) Communication failure procedure when conducting a CONVENTIONAL STAR

If STAR was assigned and acknowledged by air crew, set transponder to 7600, continue with FPL and assigned STAR, then execute an instrument approach procedure and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600.

If STAR was assigned and acknowledged by air crew and vectoring was initiated, set transponder to 7600 and continue on assigned heading and last cleared and acknowledged altitude for 2 minutes from setting 7600. Then proceed direct ARD VOR/DME and execute an instrument approach procedure and land. Descending shall be executed in accordance with vertical restrictions specified on chart.

If STAR was not assigned, set transponder to 7600, proceed according to FPL and FPL STAR, execute an instrument approach procedure and land. Descending shall be executed in accordance with vertical restrictions specified on chart after 2 minutes from setting 7600.



LRAR AD 2.22 PROCEDURI DE ZBOR

1. CERINȚE P-RNAV

În TMA Arad, procedurile SID și STAR RNAV sunt bazate pe senzori DME/DME și sunt proiectate în conformitate cu criteriile RNAV-1 (P-RNAV). Este necesară deținerea unei aprobări pentru operațiuni RNAV-1 (P-RNAV) pentru a utiliza aceste proceduri fără restricții suplimentare.

Operatorii aeronavelor certificați RNAV-1 (P-RNAV) trebuie să insereze indicatorul "P" în câmpul 10 al planului de zbor în conformitate cu Doc. OACI 7030 – Proceduri regionale suplimentare.

ATC poate autoriza rute directe/mai scurte ori de câte ori este posibil (în special în afara perioadelor de vârf). Interceptarea direcției apropiierii finale se face de obicei prin vectorizare radar pentru a facilita traficul, precum și în scopul asigurării eșalonării.

Pe ambele direcții ale pistei sunt stabilite puncte tactice pentru apropieri non-standard mai scurte: pentru sosiri Arad RWY 09 – WPT AR111, pentru sosiri Arad RWY 27 – WPT AR211. Aceste puncte pot fi utilizate doar după solicitare/aprobare de către pilot.

Informații privind planificarea profilului vertical: se recomandă ca pilotul să planifice profilul având în vedere o posibilă autorizare de coborâre în conformitate cu restricțiile de altitudine precizate pe hărțile STAR. ATC va da o autorizare de coborâre actualizată.

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

2. PROCEDURA PENTRU ZBORURI IFR ÎN CAZUL ÎNTRERUPERII COMUNICAȚIILOR RADIO

a) Procedura generală pentru cazul când nu sunt disponibile rute STAR

Setați transponderul 7600 și continuați zborul la ultimul FL/altitudine alocat de ATC către ARD VOR/DME. Coborâți în procedura de așteptare ARD VOR/DME, apoi executați o procedură de apropiere instrumentală.

b) Procedura pentru cazul întreruperii comunicațiilor în timpul executării unei rute SID convenționale sau P-RNAV

Setați transponderul 7600. Continuați pe ruta SID alocată și confirmată. După 2 minute urcați la nivelul de zbor prevăzut în FPL. În cazul vectorizării, continuați pe capul alocat timp de 2 minute, apoi procedați direct către ultimul punct semnificativ al rutei SID, urcând la nivelul de zbor prevăzut în FPL.

c) Procedura pentru întreruperea comunicațiilor în timpul executării unei rute STAR P-RNAV

În cazul în care ruta STAR a fost alocată și confirmată de pilot, setați transponderul 7600, continuați conform FPL și rutei STAR alocate, apoi executați o procedură de apropiere instrumentală și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600.

În cazul în care ruta STAR a fost alocată și confirmată de pilot și a fost inițiată vectorizarea, setați transponderul 7600 și continuați pe capul alocat și ultima altitudine autorizată și confirmată timp de 2 minute de la setarea 7600. Apoi procedați direct către FAF/FAP și executați o procedură de apropiere instrumentală și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă.

În cazul în care ruta STAR nu a fost alocată, setați transponderul 7600, procedați conform FPL și rutei STAR incluse în FPL, executați o procedură de apropiere instrumentală, apoi aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600. Dacă aterizarea nu este posibilă, executați procedura de întrerupere a apropiierii și procedați către FAF\FAP al pistei celei mai convenabile, executați o procedură de apropiere instrumentală și aterizați.

d) Procedura pentru întreruperea comunicațiilor pe timpul executării unei rute STAR convenționale

În cazul în care o rută STAR a fost alocată și confirmată de pilot, setați transponderul 7600, continuați conform FPL și rutei STAR alocate, apoi executați o procedură de apropiere instrumentală și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600.

În cazul în care ruta STAR a fost alocată și confirmată de pilot și a fost inițiată vectorizarea, setați transponderul 7600 și continuați pe capul alocat și ultima altitudine autorizată și confirmată timp de 2 minute de la setarea 7600. Apoi procedați direct către ARD VOR/DME, executați o procedură de apropiere instrumentală și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă.

În cazul în care ruta STAR nu a fost alocată, setați transponderul 7600, procedați conform FPL și rutei STAR incluse în FPL, executați o procedură de apropiere instrumentală și aterizați. Coborârea trebuie executată în conformitate cu restricțiile verticale precizate pe hartă, după 2 minute de la setarea 7600.



3. LOW VISIBILITY PROCEDURES

1. Description of facilities

1.1 Runway 27 is equipped with ILS and is approved for CAT II (RVR not less than 350M) operations . Runway 27 is approved for LVTO.

2. Criteria for the initiation and termination of LVP

2.1 Approach and landing

- a) The preparation phase will be implemented when horizontal visibility falls below 1500m or RVR tendency is 800m or ceiling is 500ft.
- b) The operations phase will be commenced when the RVR falls below to 550m (visibility falls below 800m) or ceiling is below 200ft.
- c) LVP will be terminated when RVR is greater than 800m and ceiling is greater than 500ft and a continuing improvement in these conditions is anticipated.

2.2 Take-off

- a) LVP operations will be provided when requested by an aircraft operator to conduct LVTO when the RVR is below 400m but not below 125m.
- b) If LVP operations are not in force, LVTO must be requested a minimum of 30 minutes in advance to permit the appropriate preparations.

3. Details of runway exits

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

4. Any ground movement restrictions

4.1 Aircraft movements on manoeuvring area to/from RWY 27/09 should be made using the Standard Taxi-Routes.

4.2 Upon receiving taxi clearance, aircraft must only proceed when a green centreline path is illuminated.

4.3 During LVTO, taxiing is normally restricted to one aircraft movement at a time. Operation of vehicles on the manoeuvring area is not permitted when LVTO is in progress.

5. Description of LVP

5.1 CAT II Approach and Landing

- a) Pilots will be informed by RTF when LVP are in operation;
- b) The localizer sensitive area will be protected when a landing aircraft is within 4 NM from touchdown . ATC will provide suitable spacing between aircraft on final approach to achieve this objective.

5.2 Low Visibility Take Off

- a) Aircraft movements on the apron must be carried out with the direction of a "FOLLOW ME" car.

5.3

- a) Prior to performing a simulated CAT II approach is mandatory that the pilot passes this request to the Arad TWR. This request has to be made timely so the Arad TWR can enforce all the relevant procedures. Arad TWR can authorize a simulated CAT II approach only after all relevant procedures are in force.



3. PROCEDURI ÎN CONDIȚII DE VIZIBILITATE REDUSĂ

1. Descrierea facilităților

1.1 Pista 27 este echipată cu ILS și este autorizată pentru desfășurarea operațiunilor CAT II (RVR nu mai mică de 350m) . Pista 27 este autorizată pentru LVTO.

2. Criterii pentru inițierea și terminarea LVP

2.1 Apropierea și aterizarea

- a) Faza de pregătire va fi implementată atunci când vizibilitatea orizontală scade sub 1500m sau RVR are tendința de scădere sub 800m sau plafonul este la 500ft.
- b) Faza operațională va fi declanșată atunci când valoarea RVR scade sub 550m (vizibilitatea orizontală scade sub 800m) sau plafonul este sub 200ft
- c) Procedurile în condiții de vizibilitate redusă vor fi încheiate atunci când valoarea RVR este mai mare de 800m și plafonul este mai mare de 500ft și este anticipată îmbunătățirea continuă a acestor condiții.

2.2 Decolarea

- a) Operațiunile în condiții de vizibilitate redusă vor fi declanșate când există solicitarea unui operator aerian să decoleze când valoarea RVR este mai mică de 400m dar nu mai mică de 125m.
- b) Dacă procedurile în condiții de vizibilitate redusă nu sunt declanșate, LVTO trebuie solicitată cu 30 minute înainte pentru a permite pregătirile corespunzătoare LVTO.

3. Detalii privind eliberarea pistei

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

4. Restricții privind mișcarea la sol

4.1 Toate mișcările pe suprafața de manevră spre/dinspre pista 27/09 trebuie făcute utilizând Rutele de Rulare Standard.

4.2 După obținerea autorizării de rulare, aeronava trebuie să înceapă rularea doar atunci când luminile axiale au fost aprinse.

4.3 În timpul LVTO rularea pe suprafața de manevră este restricționată la o singură aeronavă. Operarea vehiculelor pe suprafața de manevră nu este permisă când LVTO este în desfășurare.

5. Descrierea procedurilor în condiții de vizibilitate redusă

5.1 Apropierea și aterizarea CAT II

- a) Piloții vor fi informați RTF atunci când procedurile LVP sunt operaționale;
- b) Zona sensibilă ILS va fi protejată atunci când o aeronavă care aterizează se află la 4NM de punctual de contact. CTA va asigura eșalonarea corespunzătoare între aeronavele aflate pe apropierea finală în vederea îndeplinirii acestui obiectiv.

5.2 Decolarea în condiții de vizibilitate redusă

a) Mișcarea aeronavelor pe suprafața de parcare trebuie efectuată cu asistența serviciului "FOLLOW ME".

5.3

a) Înainte de efectuarea unei simulări de apropiere CAT II, pilotul este obligat să transmită solicitarea către TWR Arad. Această solicitare trebuie adresată la un moment de timp în care să permită luarea tuturor măsurilor necesare efectuării acestui tip de apropiere. TWR Arad va aproba apropieri în condiții simulate LVO după îndeplinirea tuturor condițiilor.



LRAR AD 2.23 ADDITIONAL INFORMATION

List of waypoints:

Designator/WPT	Latitude	Longitude	Type / functionality
ABIDA	460400.151N	0204345.154E	On request / Fly-by
ADUXI	455859.705N	0210406.721E	On request / Fly-by
AGASU	455251.769N	0214829.309E	On request / Fly-by
AR011	460952.070N	0212651.239E	On request / Fly-by
AR012	460833.795N	0214612.382E	On request / Fly-by
AR013	455941.098N	0212652.779E	On request / Fly-by
AR014	453409.025N	0212656.662E	On request / Fly-by
AR211	460918.207N	0213519.655E	On request / Fly-by
AR212	460849.092N	0214229.298E	On request / Fly-by
AR220	460348.462N	0212720.854E	On request / Fly-by
AR221	460319.850N	0213429.861E	On request / Fly-by
AR222	460250.791N	0214138.740E	On request / Fly-by
AR932	455611.339N	0214042.600E	On request / Fly-by
AR940	460419.430N	0211928.642E	On request / Fly-by
AR941	455527.769N	0211817.503E	On request / Fly-by
AR950	460501.073N	0210839.937E	On request / Fly-by
AR951	460517.273N	0210423.107E	On request / Fly-by
ARD	461102.662N	0210837.039E	On request / Fly-by
BESVA	460030.854N	0210842.096E	On request / Fly-by
DIPUX	455317.936N	0215202.365E	On request / Fly-by
DITAX	452808.080N	0222013.620E	Compulsory / Fly-by
DIVEL	453118.652N	0211824.871E	On request / Fly-by
ERUKO	454950.523N	0220528.231E	On request / Fly-by
FAF 09	461038.553N	0211457.137E	On request / Fly-by
FAF 27	460947.396N	0212801.984E	On request / Fly over
GOVIN	453841.982N	0210852.487E	On request / Fly-by
GUPRO	452718.553N	0215340.798E	On request / Fly-by
INGOP	452554.847N	0210858.525E	On request / Fly-by
LUSOM	452448.642N	0212658.089E	On request / Fly-by
LUXOT	455112.590N	0213510.296E	On request / Fly-by
MAVIT	451424.000N	0211830.000E	Compulsory / Fly-by
MEDUD	460759.437N	0205326.920E	On request / Fly-by
MOPUG	460948.500N	0204228.979E	Compulsory / Fly-by
NEKUL	453100.459N	0223512.370E	Compulsory / Fly-by
NOPTI	461855.190N	0215946.587E	Compulsory / Fly-by
ROMUX	455120.581N	0203724.025E	Compulsory / Fly-by
SOSIL	452105.108N	0211827.984E	On request / Fly-by
TEGRI	461546.028N	0210616.335E	Compulsory / Fly-by
TSR	454904.747N	0211819.456E	On request / Fly-by
VASIS	455711.595N	0222429.070E	Compulsory / Fly-by



LRAR AD 2.24 CHARTS RELATED TO THE AERODROME

Aerodrome Chart - ICAO	AD 2.1-20
Aircraft Parking/Docking Chart - ICAO - APRON 1.....	AD 2.1-22
Aircraft Parking/Docking Chart - ICAO - APRON 2.....	AD 2.1-23
Aerodrome Obstacle Chart - ICAO - Type A	
RWY 09	AD 2.1-25
RWY 27	AD 2.1-26
Precision Approach Terrain Chart - ICAO	
RWY 27.....	AD 2.1-29
Standard Departure Chart RWY 27 - ICAO	AD 2.1-31
Standard Arrival Chart RWY 09 - ICAO	AD 2.1-32
Standard Departure Chart RWY 09 - ICAO	AD 2.1-33
Standard Departure Chart RWY 27- ICAO	AD 2.1-34
RNAV Departure Chart RWY 27- ICAO	AD 2.1-35
RNAV Arrival Chart RWY 09 - ICAO	AD 2.1-36
RNAV Departure Chart RWY 09 - ICAO.....	AD 2.1-37
RNAV Arrival Chart RWY 27 - ICAO	AD 2.1-38
Visual Operations Chart.....	AD 2.1-40
ATC Surveillance Minimum Altitude Chart - ICAO	AD 2.1-45
Bird concentrations in the vicinity of the aerodrome	AD 2.1-46
Instrument Approach Charts - ICAO	
RWY 27 ILS CAT A, B	AD 2.1-53
RWY 27 ILS CAT C, D	AD 2.1-54
RWY 09 VOR.....	AD 2.1-81
RWY 27 VOR CAT A, B.....	AD 2.1-83
RWY 27 VOR CAT C, D.....	AD 2.1-84

LRBC AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRBC - BACĂU / George Enescu

LRBC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	463119N 0265437E Runway center.
2	Direction and distance from city	5 km South from Bacău
3	Elevation//Reference temperature/ Mean low temperature	607 FT / 29.2°C / -14.6°C
4	Geoid undulation at AD ELEV PSN	109 FT
5	MAG VAR/ Annual rate of change	5°E (2010) / 2.2°E
6	AD Administration, address, telephone, telefax, e-mail, AFS, website	Aeroportul Internațional George Enescu Bacău Tel: +40-(0)234-552484 Fax: +40-(0)234-575366 AFS: LRBCRAYD e-mail: office@bacauairport.ro dispatch@bacauairport.ro web: www.bacauairport.ro
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	NIL

LRBC AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	As AD Administration
3	Health and sanitation	As AD Administration
4	AIS Briefing Office	H24, see GEN 3.1-5
5	ATS Reporting Office (ARO)	H24, see ENR 1.10-2
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	As AD Administration
9	Handling	As AD Administration
10	Security	H24
11	De-icing	As AD Administration
12	Remarks	NIL

LRBC AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	1 electric tractor, 1 diesel tractor, 6 dollies, 2 GPU 115V/400Hz/28Vcc, 1 air start unit, 1 self-propelled potable water service, 1 self-propelled lavatory water service, 2 self-propelled conveyor belt vehicles, 1 fork lift, 4 towed passenger stairs one with PRM chair, 2 passenger buses, 2 crew/passenger minibuses, 1 B737/A320 tow bar, 1 pushback tractor for aircraft MTOW < 130T, 1 towed cabin heater.
2	Fuel/Oil types	Jet A1 kerosene / NIL
3	Fuelling facilities/capacity	Jet A1: 2 refueling trucks x 18.000l , storage 100m ³
4	De-icing facilities	2 de-icing units with fluid type I and type II
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	On request BOEING 737 & AIRBUS 320 families
7	Remarks	NIL

LRBC AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city.
2	Restaurants	Snack bar on the airport, restaurants in the city.
3	Transportation	City buses at 400m from the terminal, taxis from the terminal.
4	Medical facilities	First aid on the AD, hospitals in the city.
5	Bank and Post Office	ATM in the terminal, Post Office in the city.
6	Tourist Office	In the airport.
7	Remarks	Other facilities: duty free shops, exchange office, rent a car. Large car parking lot next to the terminal.

LRBC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Within AD HR: CAT 7.
2	Rescue equipment	Holmatro rescue equipment
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

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

1	<i>Types of clearing equipment</i>	2 combine equipment with plow and sweeper/blower, 1 snowblower, 1 sprayer for ground deicing fluid.
2	<i>Clearance priorities</i>	1. RWY 16/34 2. TWY D 3. TWY F 4. APRON 5. TWY C
3	<i>Use of material for movement area surface treatment</i>	Runway deicing liquid used for RWY, TWYs and Apron de-icing is based on potassium acetate fluid (KAC).
4	<i>Specially prepared winter runways</i>	NIL
5	<i>Remarks</i>	Information on snow clearance published in NOTAM (SNOWTAM). See also the snow plan in section AD 1.2. Designated authority to co-ordinate information about the current state of progress of snow clearance operations and the conditions of the movement area is the Airport Authority: TEL: +40-(0)234-552 484 FAX: +40-(0)234-575 366

LRBC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	<i>Apron designation, surface and strength</i>	Surface: Concrete Strength: 56/R/A/W/T																
2	<i>Taxiway designation, width, surface and strength</i>	<table border="1"> <tr> <td></td> <td>TWY A, E</td> <td>TWY B</td> <td>TWY C, D, F</td> </tr> <tr> <td>Width:</td> <td>18 M</td> <td>16 M</td> <td>23 M</td> </tr> <tr> <td>Surface:</td> <td>Concrete</td> <td>Concrete</td> <td>Asphalt</td> </tr> <tr> <td>Strength:</td> <td>17/R/C/W/T</td> <td>17/R/C/W/T</td> <td>67/F/B/W/T</td> </tr> </table>		TWY A, E	TWY B	TWY C, D, F	Width:	18 M	16 M	23 M	Surface:	Concrete	Concrete	Asphalt	Strength:	17/R/C/W/T	17/R/C/W/T	67/F/B/W/T
	TWY A, E	TWY B	TWY C, D, F															
Width:	18 M	16 M	23 M															
Surface:	Concrete	Concrete	Asphalt															
Strength:	17/R/C/W/T	17/R/C/W/T	67/F/B/W/T															
3	<i>ACL location and elevation</i>	NIL																
4	<i>VOR checkpoints</i>	NIL																
5	<i>INS checkpoints</i>	See AD 2.2-22																
6	<i>Remarks</i>	TWY A, B, E for state/military aircraft only.																

LRBC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands</i>	Aircraft stand ID signs: 01L, 01, 01R, 02, 03, 04, 05, 06. TWY guide lines: provided for TWY A, B, C, D, E, F. Visual docking guidance system of aircraft stands: NIL. Visual parking guidance system of aircraft stands: aircraft stand markings and aircraft stand maneuvering guidance lights.
2	<i>RWY and TWY markings and LGT</i>	<p>RWY:</p> <ul style="list-style-type: none"> - markings: designation, THR, TDZ, aiming point, centre line, edge lines. - lights: THR, centre line, TDZ, edge, END. <p>TWY A, B:</p> <ul style="list-style-type: none"> - markings: centre line, enhanced centre line, edge lines, holding position, mandatory instructions markings, information markings. - lights: edge, guard lights. <p>TWY C, D:</p> <ul style="list-style-type: none"> - markings: centre line, edge line, holding position, mandatory instructions markings. - lights: centre line, edge, guard lights. <p>TWY E:</p> <ul style="list-style-type: none"> - markings: centre line, edge line, information markings. - lights: edge. <p>TWY F:</p> <ul style="list-style-type: none"> - markings: centre line, edge line on West side. - lights: centre line, edge on West side.
3	<i>Stop bars</i>	TWY A, B, C, D: Stop bars (permanently lighted red) and runway guard lights at holding position.
4	<i>Other runway protection measures</i>	Mandatory instruction signs on TWY A, B, C, D.
5	<i>Remarks</i>	TURN PAD END 16 - markings: centre line, edge line. - lights: centre line, edge.



LRBC AD 2.10 AERODROME OBSTACLES

<i>In Area 2</i>					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRBC 3	BUILDING	462603.3N 0265326.7E	1003/149 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRBC 4	ANTENNA	462607.8N 0265314.8E	1023/81 FT	MARKED/NIL	
LRBC 8	BUILDING	462733.2N 0265224.3E	1127/104 FT	NIL	
LRBC 9	BUILDING	462817.8N 0265143.5E	1000/52 FT	NIL	
LRBC 11	BUILDING	462801.7N 0265308.3E	853/108 FT	NIL	
LRBC 12	ANTENNA	462719.6N 0265207.1E	1451/136 FT	MARKED/LGTD R	
LRBC 15	POLE	462954.5N 0265238.7E	717/55 FT	NIL	
LRBC 17	BUILDING	463023.3N 0265200.1E	908/55 FT	NIL	
LRBC 18	BUILDING	463033.8N 0265120.1E	894/90 FT	NIL	
LRBC 19	BUILDING	463058.5N 0265055.6E	1220/80 FT	NIL	
LRBC 21	POLE	463153.5N 0265325.6E	682/52 FT	NIL	
LRBC 22	BUILDING	463154.6N 0265040.0E	1159/173 FT	NIL	
LRBC 25	BUILDING	463204.7N 0265054.4E	943/52 FT	NIL	
LRBC 26	ELECTRICAL SYSTEM	463204.8N 0265054.4E	946/54 FT	NIL	
LRBC 27	BUILDING	463217.5N 0265018.1E	1181/129 FT	NIL	
LRBC 29	ANTENNA	463235.6N 0265008.4E	1320/164 FT	MARKED/LGTD R	
LRBC 31	BUILDING	463136.1N 0265014.8E	1419/58 FT	NIL	
LRBC 34	POLE	463245.5N 0264936.7E	1385/98 FT	NIL	
LRBC 35	POLE	463252.7N 0264940.6E	1305/92 FT	NIL	
LRBC 36	POLE	463259.3N 0264944.2E	1278/103 FT	NIL	
LRBC 37	POLE	463305.6N 0264947.8E	1190/91 FT	NIL	
LRBC 38	POLE	463313.1N 0264951.7E	1099/98 FT	NIL	
LRBC 39	POLE	463238.7N 0264933.1E	1511/91 FT	NIL	
LRBC 40	POLE	463234.1N 0264931.0E	1517/90 FT	NIL	
LRBC 41	POLE	463226.7N 0264927.5E	1499/81 FT	NIL	
LRBC 42	POLE	463220.9N 0264924.8E	1442/78 FT	NIL	
LRBC 43	POLE	463213.1N 0264921.2E	1456/80 FT	NIL	
LRBC 44	POLE	463156.4N 0264925.5E	1428/88 FT	NIL	
LRBC 45	POLE	463204.5N 0264923.4E	1491/107 FT	NIL	
LRBC 46	POLE	463149.7N 0264927.2E	1396/98 FT	NIL	
LRBC 47	BUILDING	463139.4N 0264932.8E	1401/73 FT	NIL	
LRBC 48	ANTENNA	463141.1N 0264930.5E	1435/104 FT	MARKED/LGTD R	
LRBC 49	POLE	463141.1N 0264929.3E	1422/91 FT	NIL	
LRBC 50	POLE	463133.4N 0264928.6E	1423/82 FT	NIL	
LRBC 51	POLE	463127.5N 0264928.0E	1448/85 FT	NIL	
LRBC 52	POLE	463121.8N 0264927.5E	1480/83 FT	NIL	
LRBC 54	POLE	463108.9N 0264926.3E	1560/100 FT	NIL	
LRBC 55	POLE	463102.3N 0264925.7E	1548/83 FT	NIL	
LRBC 56	POLE	463057.0N 0264925.2E	1665/97 FT	NIL	
LRBC 57	POLE	463051.5N 0264924.7E	1740/94 FT	NIL	
LRBC 58	POLE	463046.3N 0264924.2E	1747/93 FT	NIL	
LRBC 59	POLE	463042.9N 0264918.0E	1645/82 FT	MARKED/NIL	
LRBC 60	POLE	463039.5N 0264911.8E	1519/95 FT	MARKED/NIL	
LRBC 61	POLE	463034.1N 0264902.1E	1608/97 FT	NIL	
LRBC 62	POLE	463030.8N 0264856.0E	1608/81 FT	NIL	
LRBC 63	BUILDING	463030.8N 0264923.0E	1642/65 FT	NIL	
LRBC 64	ANTENNA	463031.7N 0264802.8E	2015/137 FT	MARKED/LGTD R	
LRBC 65	ANTENNA	463031.4N 0264804.8E	1981/100 FT	MARKED/LGTD R	
LRBC 66	ANTENNA	463029.6N 0264806.5E	2026/164 FT	MARKED/LGTD R	
LRBC 67	ANTENNA	463026.1N 0264803.4E	1979/175 FT	MARKED/LGTD R	
LRBC 68	POLE	463022.8N 0264814.8E	1802/105 FT	NIL	
LRBC 69	POLE	463029.7N 0264850.6E	1628/93 FT	NIL	
LRBC 70	POLE	463027.4N 0264838.8E	1681/93 FT	NIL	
LRBC 71	POLE	463025.1N 0264826.4E	1742/101 FT	NIL	
LRBC 72	POLE	463021.4N 0264806.7E	1823/94 FT	NIL	
LRBC 73	NAVAID	463103.5N 0264751.6E	2000/100 FT	NIL	
LRBC 74	POLE	463017.5N 0264733.7E	1553/80 FT	NIL	
LRBC 75	POLE	463020.4N 0264759.3E	1824/102 FT	NIL	
LRBC 76	POLE	463019.6N 0264752.4E	1796/108 FT	NIL	
LRBC 77	POLE	463018.5N 0264742.7E	1630/107 FT	NIL	
LRBC 78	POLE	463016.5N 0264724.9E	1500/90 FT	NIL	



a	b	c	d	e	f
LRBC 79	BUILDING	463011.6N 0264656.1E	1269/65 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRBC 80	POLE	463013.0N 0264654.8E	1287/89 FT	NIL	
LRBC 82	POLE	463014.3N 0264706.1E	1386/97 FT	NIL	
LRBC 83	POLE	463015.4N 0264716.0E	1424/99 FT	NIL	
LRBC 84	BUILDING	463034.7N 0264723.3E	1455/64 FT	NIL	
LRBC 88	BUILDING	463304.6N 0264929.0E	1079/66 FT	NIL	
LRBC 89	BUILDING	463244.5N 0265113.1E	848/58 FT	NIL	
LRBC 90	BUILDING	463254.9N 0265027.2E	987/76 FT	NIL	
LRBC 92	CRANE	463250.5N 0265037.4E	961/93 FT	NIL/LGTD R	
LRBC 93	ANTENNA	463321.0N 0265115.3E	942/142 FT	MARKED/LGTD R	
LRBC 95	POLE	463322.8N 0265002.4E	871/101 FT	NIL	
LRBC 96	POLE	463327.9N 0265010.7E	971/121 FT	NIL	
LRBC 97	POLE	463317.7N 0264954.2E	1027/110 FT	NIL	
LRBC 98	BUILDING	463346.9N 0264935.8E	1094/50 FT	NIL	
LRBC 99	BUILDING	463436.8N 0264921.6E	935/69 FT	NIL	
LRBC 100	BUILDING	463420.8N 0264917.9E	972/53 FT	NIL	
LRBC 101	ANTENNA	463504.6N 0265023.3E	1011/165 FT	MARKED/LGTD R	
LRBC 103	POLE	463501.8N 0265023.8E	948/90 FT	NIL	
LRBC 104	POLE	463456.7N 0265029.1E	967/88 FT	NIL	
LRBC 105	POLE	463451.6N 0265034.2E	965/90 FT	NIL	
LRBC 106	POLE	463447.7N 0265042.9E	931/80 FT	NIL	
LRBC 119	POLE	463603.8N 0265003.3E	1046/151 FT	NIL	
LRBC 120	POLE	463611.6N 0265003.3E	1084/95 FT	NIL	
LRBC 121	POLE	463619.0N 0265003.3E	1106/100 FT	NIL	
LRBC 128	POLE	463441.6N 0265113.4E	886/107 FT	NIL	
LRBC 129	POLE	463434.5N 0265116.7E	905/105 FT	NIL	
LRBC 132	POLE	463332.8N 0265018.5E	957/101 FT	NIL	
LRBC 133	POLE	463338.0N 0265026.9E	943/98 FT	NIL	
LRBC 134	POLE	463343.2N 0265035.2E	931/91 FT	NIL	
LRBC 135	POLE	463348.5N 0265043.6E	920/88 FT	NIL	
LRBC 136	POLE	463353.2N 0265051.2E	913/97 FT	NIL	
LRBC 137	POLE	463358.3N 0265059.3E	905/94 FT	NIL	
LRBC 138	POLE	463403.2N 0265107.3E	895/89 FT	NIL	
LRBC 139	POLE	463407.7N 0265114.5E	884/91 FT	NIL	
LRBC 140	POLE	463413.1N 0265123.2E	882/95 FT	NIL	
LRBC 141	POLE	463417.9N 0265130.8E	887/97 FT	NIL	
LRBC 142	POLE	463419.3N 0265134.5E	897/106 FT	NIL	
LRBC 143	POLE	463417.2N 0265142.3E	894/104 FT	NIL	
LRBC 144	POLE	463415.1N 0265150.0E	891/103 FT	NIL	
LRBC 145	POLE	463413.0N 0265157.9E	880/97 FT	NIL	
LRBC 146	POLE	463418.3N 0265147.9E	884/96 FT	NIL	
LRBC 147	POLE	463414.4N 0265156.7E	904/125 FT	NIL	
LRBC 148	POLE	463422.6N 0265138.4E	887/96 FT	NIL	
LRBC 149	POLE	463426.6N 0265129.6E	889/99 FT	NIL	
LRBC 150	POLE	463430.7N 0265120.4E	896/101 FT	NIL	
LRBC 151	POLE	463434.9N 0265111.3E	901/94 FT	NIL	
LRBC 152	POLE	463439.0N 0265102.2E	903/93 FT	NIL	
LRBC 153	POLE	463443.2N 0265052.8E	910/92 FT	NIL	
LRBC 154	POLE	463430.2N 0265125.8E	898/108 FT	NIL	
LRBC 155	POLE	463426.2N 0265134.7E	894/105 FT	NIL	
LRBC 156	POLE	463422.2N 0265143.7E	893/104 FT	NIL	
LRBC 157	POLE	463418.1N 0265152.6E	887/113 FT	NIL	
LRBC 158	BUILDING	463346.1N 0265127.2E	925/135 FT	NIL	
LRBC 159	BUILDING	463347.3N 0265215.4E	784/62 FT	NIL	
LRBC 160	BUILDING	463348.1N 0265217.9E	781/60 FT	NIL	
LRBC 161	BUILDING	463348.4N 0265215.4E	780/59 FT	NIL	
LRBC 162	POLE	463348.3N 0265215.4E	790/68 FT	NIL	
LRBC 174	POLE	463411.9N 0265206.3E	826/93 FT	NIL	
LRBC 181	POLE	463413.4N 0265205.9E	808/91 FT	NIL	
LRBC 182	POLE	463416.7N 0265200.9E	828/90 FT	NIL	
LRBC 223	ANTENNA	463525.4N 0265104.2E	958/97 FT	MARKED/LGTD R	
LRBC 224	ANTENNA	463528.8N 0265100.3E	969/108 FT	MARKED/LGTD R	
LRBC 225	POLE	463626.8N 0265003.3E	1111/99 FT	NIL	
LRBC 226	POLE	463633.7N 0264958.9E	1127/89 FT	NIL	
LRBC 227	POLE	463640.2N 0264954.8E	1137/82 FT	NIL	



a	b	c	d	e	f
LRBC 388	ANTENNA	463618.4N 0265546.2E	1129/501 FT	MARKED/LGTD R	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRBC 733	NAVAID	463201.2N 0265404.6E	696/82 FT	NIL	
LRBC 736	TREE	463220.9N 0265416.6E	624/52 FT	NIL	
LRBC 737	TREE	463218.8N 0265418.7E	625/51 FT	NIL	
LRBC 756	ANTENNA	463238.6N 0265408.3E	643/81 FT	NIL/LGTD R	
LRBC 765	ANTENNA	463309.1N 0265407.4E	680/129 FT	NIL	
LRBC 776	BUILDING	463246.8N 0265401.1E	666/110 FT	NIL/LGTD R	
LRBC 786	BUILDING	463222.6N 0265445.8E	639/104 FT	NIL	
LRBC 791	BUILDING	463224.8N 0265459.5E	683/150 FT	NIL	
LRBC 792	ANTENNA	463227.9N 0265457.8E	652/120 FT	NIL	
LRBC 793	ANTENNA	463227.9N 0265458.0E	655/122 FT	NIL	
LRBC 795	BUILDING	463220.9N 0265456.3E	643/110 FT	NIL	
LRBC 796	BUILDING	463221.1N 0265500.1E	651/118 FT	NIL	
LRBC 797	BUILDING	463218.7N 0265501.8E	641/108 FT	NIL	
LRBC 799	ANTENNA	463221.2N 0265500.1E	659/126 FT	NIL	
LRBC 800	ANTENNA	463221.0N 0265500.4E	662/130 FT	NIL	
LRBC 801	ANTENNA	463220.8N 0265456.0E	656/123 FT	NIL	
LRBC 803	BUILDING	463219.6N 0265447.3E	653/109 FT	NIL	
LRBC 900	BUILDING	463412.5N 0265439.4E	774/235 FT	NIL	
LRBC 908	ANTENNA	463406.0N 0265442.4E	774/235 FT	NIL/LGTD R	
LRBC 939	BUILDING	463355.7N 0265453.4E	771/230 FT	NIL	
LRBC 943	ANTENNA	463356.2N 0265440.0E	761/220 FT	NIL/LGTD R	
LRBC 955	ANTENNA	463320.3N 0265444.8E	709/171 FT	NIL/LGTD R	
LRBC 956	POLE	463323.2N 0265447.3E	726/201 FT	MARKED/LGTD R	
LRBC 957	POLE	463328.0N 0265443.9E	720/196 FT	MARKED/LGTD R	
LRBC 963	POLE	463324.9N 0265453.3E	726/214 FT	MARKED/LGTD R	
LRBC 964	POLE	463330.0N 0265449.9E	725/211 FT	MARKED/LGTD R	
LRBC 1015	BUILDING	463234.7N 0265455.4E	656/123 FT	NIL	
LRBC 1016	ANTENNA	463227.9N 0265458.0E	655/121 FT	NIL	
LRBC 1017	STACK	463230.9N 0265509.8E	735/205 FT	NIL	
LRBC 1024	WATER TOWER	463141.8N 0265457.4E	746/149 FT	NIL	
LRBC 1025	POLE	463141.8N 0265457.4E	752/155 FT	NIL	
LRBC 1036	STACK	463148.5N 0265617.1E	1229/748 FT	NIL	
LRBC 1037	STACK	463148.7N 0265619.6E	1207/726 FT	NIL	
LRBC 1053	ANTENNA	463214.9N 0265512.6E	632/97 FT	NIL	
LRBC 1055	BUILDING	463215.0N 0265503.2E	642/107 FT	NIL	
LRBC 1056	BUILDING	463218.4N 0265501.9E	641/106 FT	NIL	
LRBC 1057	BUILDING	463144.5N 0265445.6E	698/99 FT	NIL/LGTD R	
LRBC 1064	STACK	463201.8N 0265500.2E	639/93 FT	NIL	
LRBC 1065	BUILDING	463201.0N 0265507.5E	632/85 FT	NIL	
LRBC 1066	ANTENNA	463200.9N 0265507.6E	645/99 FT	NIL	
LRBC 1067	STACK	463144.0N 0265445.6E	699/100 FT	NIL	
LRBC 1068	POLE	463144.0N 0265445.4E	699/100 FT	NIL/LGTD R	
LRBC 1069	POLE	463139.8N 0265443.5E	675/75 FT	NIL/LGTD R	
LRBC 1070	BUILDING	463139.8N 0265443.7E	670/70 FT	NIL	
LRBC 1079	ANTENNA	463153.6N 0265519.2E	635/96 FT	NIL	
LRBC 1080	BUILDING	463201.5N 0265510.6E	628/81 FT	NIL	
LRBC 1081	BUILDING	463159.5N 0265511.2E	631/84 FT	NIL	
LRBC 1082	ANTENNA	463159.4N 0265511.2E	641/94 FT	NIL	
LRBC 1083	BUILDING	463141.2N 0265514.4E	679/87 FT	NIL	
LRBC 1084	ANTENNA	463141.2N 0265514.3E	692/100 FT	NIL	
LRBC 1085	BUILDING	463146.1N 0265515.6E	733/143 FT	NIL/LGTD R	
LRBC 1086	STACK	463105.7N 0265540.8E	642/68 FT	NIL	
LRBC 1087	BUILDING	463105.2N 0265543.3E	697/122 FT	NIL	
LRBC 1088	ANTENNA	463106.0N 0265543.2E	720/145 FT	NIL	
LRBC 1094	POLE	463037.0N 0265532.6E	629/62 FT	NIL	
LRBC 1095	POLE	463030.8N 0265533.3E	620/65 FT	NIL	
LRBC 1096	STACK	463039.0N 0265525.0E	631/68 FT	NIL	
LRBC 1119	WATER TOWER	463052.4N 0265630.9E	682/204 FT	NIL	
LRBC 1120	STACK	463051.1N 0265636.7E	712/235 FT	NIL	
LRBC 1122	BUILDING	463055.3N 0265633.5E	722/245 FT	NIL	
LRBC 1123	BUILDING	463104.6N 0265631.9E	678/197 FT	NIL	
LRBC 1139	STACK	463159.8N 0265610.8E	677/190 FT	NIL	
LRBC 1141	STACK	463157.9N 0265608.4E	677/190 FT	NIL	
LRBC 1151	WATER TOWER	463137.2N 0265459.4E	733/137 FT	NIL	



a	b	c	d	e	f
LRBC 1152	BUILDING	463126.5N 0265517.6E	656/69 FT	NIL	Electronic form of obstacle data sets for Area 2 are available (see GEN 3.1.6)
LRBC 1153	POLE	463046.8N 0265528.0E	659/82 FT	NIL	
LRBC 1154	BUILDING	463118.9N 0265525.9E	642/56 FT	NIL	
LRBC 1155	ELECTRICAL SYSTEM	463118.9N 0265526.1E	657/72 FT	NIL	
LRBC 1156	WATER TOWER	463126.9N 0265532.9E	702/124 FT	NIL	
LRBC 1164	ANTENNA	463126.5N 0265529.2E	685/105 FT	NIL	
LRBC 1165	ANTENNA	463125.9N 0265528.9E	683/104 FT	NIL	
LRBC 1327	BUILDING	463127.6N 0265506.1E	644/50 FT	NIL	
LRBC 1328	POLE	463128.5N 0265505.3E	657/63 FT	NIL	
LRBC 1329	BUILDING	463127.9N 0265503.1E	649/55 FT	NIL	
LRBC 1332	STACK	463132.9N 0265446.3E	647/50 FT	NIL	
LRBC 1334	POLE	463137.3N 0265444.2E	675/77 FT	NIL/LGTD R	
LRBC 1335	BUILDING	463136.5N 0265447.2E	656/59 FT	NIL	
LRBC 1336	POLE	463136.5N 0265447.2E	659/62 FT	NIL/LGTD R	
LRBC 1338	ANTENNA	463052.0N 0265501.6E	646/57 FT	NIL	
LRBC 1339	ANTENNA	463052.7N 0265453.5E	628/39 FT	NIL	
LRBC 1340	ANTENNA	463054.3N 0265504.4E	660/74 FT	NIL	
LRBC 1345	NAVAID	463117.8N 0265456.0E	665/71 FT	NIL	
LRBC 1348	TANK	463117.0N 0265502.0E	654/58 FT	NIL	
LRBC 1353	ANTENNA	463120.6N 0265457.6E	664/68 FT	NIL	
LRBC 1355	BUILDING	463130.2N 0265500.8E	668/71 FT	NIL	
LRBC 1356	BUILDING	463130.2N 0265500.3E	668/71 FT	NIL	
LRBC 1357	STACK	463137.3N 0265454.5E	683/85 FT	NIL	
LRBC 1358	STACK	463137.6N 0265454.4E	689/90 FT	NIL	
LRBC 1626	BUILDING	462720.2N 0265233.4E	1065/52 FT	NIL	
LRBC 1633	ANTENNA	462741.1N 0265259.5E	935/73 FT	NIL	
LRBC 1650	POLE	462919.5N 0265310.3E	755/50 FT	NIL	
LRBC 1669	POLE	463046.2N 0265232.7E	720/54 FT	NIL	
LRBC 1677	TREE	463201.6N 0265345.7E	692/62 FT	NIL	
LRBC 1678	TREE	463200.7N 0265345.2E	697/67 FT	NIL	
LRBC 1682	TREE	463220.9N 0265416.6E	624/53 FT	NIL	
LRBC 1727	TREE	463631.8N 0264957.6E	1128/78 FT	NIL	
LRBC 1728	TREE	463630.8N 0264955.2E	1122/69 FT	NIL	
LRBC 1733	ANTENNA	463530.1N 0265104.4E	961/102 FT	MARKED/LGTD R	
LRBC 1757	BUILDING	463250.2N 0265122.8E	815/50 FT	NIL	
LRBC 1788	TREE	463252.6N 0265139.1E	846/88 FT	NIL	
LRBC 1794	TREE	463315.5N 0265235.7E	795/60 FT	NIL	
LRBC 1962	ANTENNA	464520.7N 0265053.0E	1152/430 FT	MARKED/LGTD R	
LRBC 1964	ANTENNA	464448.4N 0265139.4E	1057/352 FT	MARKED/LGTD R	
LRBC 1965	ANTENNA	464459.8N 0265139.2E	1060/355 FT	MARKED/LGTD R	
LRBC 1966	ANTENNA	464503.5N 0265136.0E	1063/355 FT	MARKED/LGTD R	
LRBC 1967	ANTENNA	464518.7N 0265119.3E	1074/352 FT	MARKED/LGTD R	
LRBC 1968	ANTENNA	464515.7N 0265114.9E	1075/350 FT	MARKED/LGTD R	
LRBC 1969	ANTENNA	464512.4N 0265111.6E	1070/348 FT	MARKED/LGTD R	
LRBC 1970	ANTENNA	464508.3N 0265110.1E	1071/356 FT	MARKED/LGTD R	
LRBC 1971	ANTENNA	464504.3N 0265108.6E	1073/354 FT	MARKED/LGTD R	
LRBC 2172	ANTENNA	463045.7N 0265443.8E	609/19 FT	NIL/LGTD R	
LRBC 2173	ANTENNA	463050.1N 0265441.5E	621/31 FT	NIL/LGTD R	
LRBC 2174	ANTENNA	463048.3N 0265442.5E	611/21 FT	NIL/LGTD R	
LRBC 2175	ANTENNA	463052.0N 0265453.0E	600/11 FT	NIL	
LRBC 2195	POLE	463207.3N 0265416.4E	620/10 FT	NIL/LGTD R	
LRBC 2196	POLE	463207.7N 0265418.7E	620/10 FT	NIL/LGTD R	
LRBC 2335	BUILDING	463228.8N 0265022.2E	1108/50 FT	NIL	
LRBC 2336	BUILDING	463229.7N 0265021.4E	1117/52 FT	NIL	
LRBC 2375	ELECTRICAL SYSTEM	463208.3N 0265421.1E	615/10 FT	NIL	
LRBC 2376	FENCE	463207.3N 0265416.4E	619/9 FT	NIL/LGTD R	
LRBC 2377	FENCE	463207.7N 0265418.7E	619/9 FT	NIL/LGTD R	
LRBC 2425	NAVAID	463048.3N 0265442.8E	642/52 FT	MARKED/LGTD R	
LRBC 2493	POLE	463018.4N 0265515.4E	637/61 FT	NIL	
LRBC 2526	NAVAID	463119.7N 0265442.7E	618/22 FT	NIL/LGTD R	
LRBC 2527	NAVAID	463119.6N 0265442.5E	618/22 FT	NIL	
LRBC 2528	NAVAID	463119.6N 0265442.2E	618/22 FT	NIL	
LRBC 2529	NAVAID	463119.6N 0265442.0E	621/25 FT	NIL/LGTD R	
LRBC 2530	ANTENNA	463140.6N 0265344.5E	716/90 FT	NIL/LGTD R	



In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
LRBC 2191	POLE	463153.5N 0265439.3E	645.4/43.5 FT	NIL/LGTD R	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRBC 2192	POLE	463154.9N 0265437.5E	676.8/74.0 FT	NIL	
LRBC 2193	POLE	463040.3N 0265455.3E	589.6/1.7 FT	NIL/LGTD R	
LRBC 2194	POLE	463041.1N 0265455.2E	589.2/1.7 FT	NIL/LGTD R	
LRBC 2200	POLE	463202.3N 0265432.6E	637.6/33.3 FT	NIL/LGTD R	
LRBC 2214	POLE	463140.4N 0265434.0E	603.3/2.0 FT	NIL/LGTD R	
LRBC 2215	POLE	463139.1N 0265434.5E	603.4/2.2 FT	NIL/LGTD R	
LRBC 2216	POLE	463157.9N 0265427.1E	606.8/2.1 FT	NIL/LGTD R	
LRBC 2217	POLE	463159.2N 0265426.6E	607.8/2.0 FT	NIL/LGTD R	
LRBC 2318	BUILDING	463155.6N 0265437.7E	621.2/18.0 FT	NIL	
LRBC 2319	BUILDING	463155.7N 0265438.4E	615.8/12.6 FT	NIL	
LRBC 2320	BUILDING	463156.5N 0265437.8E	628.3/24.6 FT	NIL	
LRBC 2324	BUILDING	463202.1N 0265431.3E	636.4/32.0 FT	NIL/LGTD R	
LRBC 2422	ANTENNA	463155.5N 0265438.5E	675.9/72.7 FT	NIL/LGTD R	
LRBC 2440	SIGN	463149.6N 0265432.1E	603.9/3.3 FT	NIL/LGTD R	
LRBC 2441	SIGN	463150.4N 0265434.2E	603.8/3.0 FT	NIL/LGTD R	
LRBC 2442	SIGN	463157.1N 0265429.0E	605.0/2.9 FT	NIL/LGTD R	
LRBC 2443	SIGN	463159.4N 0265426.5E	609.0/3.6 FT	NIL/LGTD R	
LRBC 2444	SIGN	463159.4N 0265426.6E	609.0/3.6 FT	NIL/LGTD R	
LRBC 2445	SIGN	463157.7N 0265427.9E	607.1/3.0 FT	NIL/LGTD R	
LRBC 2446	SIGN	463157.6N 0265427.3E	608.0/3.7 FT	NIL/LGTD R	
LRBC 2447	SIGN	463157.6N 0265427.2E	608.0/3.7 FT	NIL/LGTD R	
LRBC 2448	SIGN	463201.2N 0265434.7E	619.7/16.4 FT	NIL/LGTD R	
LRBC 2449	SIGN	463158.3N 0265435.8E	620.8/16.7 FT	NIL/LGTD R	
LRBC 2450	SIGN	463156.9N 0265437.2E	620.1/16.4 FT	NIL/LGTD R	
LRBC 2451	SIGN	463155.3N 0265436.9E	619.5/16.4 FT	NIL/LGTD R	
LRBC 2452	SIGN	463153.9N 0265437.6E	619.5/16.4 FT	NIL/LGTD R	
LRBC 2453	SIGN	463139.7N 0265438.1E	603.3/3.0 FT	NIL/LGTD R	
LRBC 2454	SIGN	463139.6N 0265436.9E	604.4/3.6 FT	NIL/LGTD R	
LRBC 2455	SIGN	463138.9N 0265434.6E	604.9/3.7 FT	NIL/LGTD R	
LRBC 2456	SIGN	463138.9N 0265434.6E	604.9/3.6 FT	NIL/LGTD R	
LRBC 2457	SIGN	463140.7N 0265433.9E	605.0/3.7 FT	NIL/LGTD R	
LRBC 2458	SIGN	463140.7N 0265433.9E	605.1/3.7 FT	NIL/LGTD R	
LRBC 2459	SIGN	463200.1N 0265435.2E	620.0/16.3 FT	NIL/LGTD R	
LRBC 2460	SIGN	463159.7N 0265435.4E	620.0/16.4 FT	NIL/LGTD R	
LRBC 2461	SIGN	463041.5N 0265455.3E	589.9/3.0 FT	NIL/LGTD R	
LRBC 2466	SIGN	463044.4N 0265451.9E	593.5/3.7 FT	NIL/LGTD R	
LRBC 2467	SIGN	463056.4N 0265447.1E	594.7/3.6 FT	NIL/LGTD R	
LRBC 2468	SIGN	463059.8N 0265447.0E	594.4/3.0 FT	NIL/LGTD R	
LRBC 2473	SIGN	463101.0N 0265445.4E	594.5/3.6 FT	NIL/LGTD R	
LRBC 2474	SIGN	463136.6N 0265431.4E	605.2/3.5 FT	NIL/LGTD R	
LRBC 2475	SIGN	463155.5N 0265423.9E	609.6/3.6 FT	NIL/LGTD R	
LRBC 2476	SIGN	463141.1N 0265429.6E	606.6/3.6 FT	NIL/LGTD R	
LRBC 2477	NAVAID	463048.8N 0265445.3E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2478	NAVAID	463048.8N 0265445.7E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2479	NAVAID	463048.9N 0265446.1E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2480	NAVAID	463049.0N 0265446.6E	593.3/2.5 FT	NIL/LGTD R	
LRBC 2481	NAVAID	463149.3N 0265427.4E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2482	NAVAID	463149.2N 0265427.0E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2483	NAVAID	463149.2N 0265426.6E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2484	NAVAID	463149.4N 0265427.8E	606.7/2.0 FT	NIL/LGTD R	
LRBC 2485	POLE	463154.7N 0265437.5E	693.5/90.7 FT	NIL	
LRBC 2486	POLE	463155.6N 0265438.6E	702.2/99.0 FT	NIL	
LRBC 2487	POLE	463157.1N 0265437.6E	643.3/39.6 FT	NIL	
LRBC 2498	TANK	463155.9N 0265438.0E	620.9/17.8 FT	NIL	
LRBC 2499	TANK	463156.0N 0265438.4E	617.5/14.3 FT	NIL	
LRBC 2509	POLE	463200.5N 0265435.0E	673.0/69.4 FT	MARKED/LGTD R	
LRBC 2510	POLE	463159.1N 0265435.9E	630.0/27.2 FT	NIL	
LRBC 2511	POLE	463159.3N 0265436.9E	628.5/26.0 FT	NIL	
LRBC 2512	POLE	463158.9N 0265437.1E	628.5/25.9 FT	NIL	
LRBC 2513	POLE	463158.2N 0265437.3E	628.7/26.0 FT	NIL	
LRBC 2514	POLE	463158.0N 0265436.6E	630.2/27.4 FT	NIL	

a	b	c	d	e	f
LRBC 2515	POLE	463158.8N 0265436.3E	630.4/27.7 FT	NIL	Electronic form of obstacle data sets for Area 3 are available (see GEN 3.1.6)
LRBC 2516	POLE	463158.3N 0265435.9E	672.5/68.6 FT	MARKED/LGTD R	
LRBC 2517	POLE	463156.1N 0265436.7E	672.1/68.7 FT	MARKED/LGTD R	
LRBC 2518	POLE	463153.9N 0265437.6E	665.8/62.6 FT	MARKED/LGTD R	
LRBC 2521	CONTROL_TOWER	463154.7N 0265437.8E	673.5/70.7 FT	NIL/LGTD R	

LRBC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	BACĂU
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)234-585180 Fax: +40-(0)234-585180
9	ATS units provided with information	BACAU TWR
10	Additional information (limitation of service, etc.)	NIL

LRBC 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	Slope of RWY-SWY
					TDZ of precision APP RWY	
1	2	3	4	5	6	7
16	164.82°	2500 x 45	66/F/B/W/T Asphalt	463157.74N 0265421.36E 463039.79N 0265451.99E GUND 109 FT	THR 607 FT	-0.19% (556M) 0.20% (123 M) -0.40% (417 M) -0.20% (55 M) 0.22% (654 M) 0.30% (132 M) 0.12 % (96M) 0.30 % (89 M) -0.19 % (68 M) 0.00% (12 M) -0.20 % (298 M)
34	344.83°	2500 x 45	66/F/B/W/T Asphalt	463039.97N 0265451.92E 463157.93N 0265421.29E GUND 109 FT	THR 591 FT	0.20 % (298 M) -0.00 % (12 M) 0.19 % (68 M) -0.3 % (89 M) -0.12 % (96 M) 0.30 % (132 M) 0.22 % (654 M) 0.20 % (55 M) 0.40 % (417 M) -0.20 % (123 M) 0.19 % (556 M)
SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of ARST system		Remarks
8	9	10	11	12	OFZ	14
NIL	400 x 200	2620 x 300	240 x 150	NIL	NIL	RWY 16 turn pad Location: RWY 16 END Surface: Asphalt Dimensions:133Mx78M Strength: 67/F/B/W/T
NIL	400 x 200	2620 x 300	240 x 150	NIL	Yes	NIL

**LRBC AD 2.13 DECLARED DISTANCES**

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
16	2500	2900	2500	2494	NIL
34	2500	2900	2500	2494	NIL

LRBC AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
16	ALSF-2 CAT II 900M LIH	Green Yes	PAPI 3° (45FT)	900M, 30M, White	1600M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1900M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red LIH	NIL	RWY 16/34, LED lights used in the full length of the ALS.
34	ALSF-2 CAT II 900M LIH	Green Yes	PAPI 3° (50FT)	900M, 30M, White	1600M, 15M, White, LIH 600M, 15M, Red/White, LIH 300M, 15M, Red, LIH	1900M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red LIH	NIL	

LRBC 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 NIL
3	TWY edge and centre line lighting	TWY A, B, E: edge TWY C, D, F: centre line, edge TWY F: edge West only
4	Secondary power supply/switch-over time	Secondary power supply to all lighting on the AD, switch-over time below 1 sec.
5	Remarks	NIL

LRBC AD 2.16 HELICOPTER LANDING AREA

1	Coordinates 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	RWY 34/16 to be used.

LRBC AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	BACĂU CTR A circle, radius 15NM centred at 463119N 0265437E(ARP)
2	Vertical limits	SFC to 6500 FT STD
3	Airspace classification	C
4	ATS unit call sign Language(s)	Bacău Tower English, Romanian
5	Transition altitude	4000 FT AMSL
6	Hours of applicability	As ATS
7	Remarks	NIL

**LRBC AD 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	Bacău Tower	120.980 118.600 MHz ALTN	NIL	NIL	W: 0500 - 2000 S: 0400 - 1900	Exempted 8.33 kHz State aircraft.
APP	Bacău Tower	121.500 MHz EMERG 120.980 118.600 MHz ALTN	NIL	NIL	W: 0500 - 2000 S: 0400 - 1900	Procedural service Exempted 8.33 kHz State aircraft.

LRBC 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
DVOR/DME (5°E/2010)	BCU	109.400 MHz CH 31X	H24	463039.3N 0264932.0E	1800 FT	Coverage 175NM (assumed)
LOC 34 (5°E/2010)	IBC	110.700 MHz	H24	463207.5N 0265417.6E		Front course angle 4.36° Cat. II ICAO
GP 34	-	330.200 MHz	H24	463048.3N 0265442.8E		GP Angle 3° ILS RDH 54
DME 34	IBC	CH 44X	H24	463048.4N 0265442.5E	700 FT	
NDB(LO)	BC	426 KHZ	HX	462841.2N 0265538.7E		160°MAG/2.05NM from THR 34
NDB(LM)	B	520 KHZ	H24	463005.2N 0265505.6E		160°MAG/0.60NM from THR 34

LRBC AD 2.20 LOCAL AERODROME REGULATIONS**1. AIRPORT REGULATIONS / REGLEMENTĂRI AEROPORT****1.1 Taxiing to and from stands**

- Taxiing to and from stands shall be in accordance with the standard routes published in LRBC AD 2.20 Local Aerodrome Regulations.
- FOLLOW ME vehicle assistance, may be requested by the pilot via TWR.
- Entry to the stand for aircraft with code letters A and B shall be made with guidance by the ground dispatcher;
- The entrance to the stand for aircraft with code letters C and D will be unassisted (self-maneuvering) according to LRBC AD 2.2-22 Aircraft parking/Docking chart. At the request of the pilot or at the instructions of the ground dispatcher, parking will be performed with guidance or, assisted at the parking position by the ground dispatcher.
- Upon arrival, helicopters will land on the runway and run on the ground / air according to standard runways. From the entrance on TWY F, the commander of the aircraft follows the markings to the point where he sees the ground dispatcher, following his signals until he stop.
- If the pilot of a non-self-maneuvering aircraft, operating on TWY F, does not have the ground dispatcher in sight, near the parking position communicated by TWR, he stops the aircraft and requests ATC, his presence.

1.1 Rulajul la și de la standuri

- Rulajul la și de la standuri se efectuează conform rutelor standard publicate la LRBC AD 2.20 Local Aerodrome Regulations.
- Asistența vehiculului „FOLLOW ME” poate fi solicitată de pilot prin TWR.
- Intrarea la stand pentru aeronavele cu litera de cod A și B se va face cu dirijare de către dispecerul de sol;
- Intrarea la stand pentru aeronavele cu litera de cod C și D se va face neasistat (self-manoeuvering), conform LRBC AD 2.2-22 Aircraft parking/Docking chart . La solicitarea pilotului sau la indicațiile dispecerului de sol, parcare se va face cu dirijare sau, asistat la poziția de parcare de către dispecerul de sol.
- Pentru sosire, elicopterele vor ateriza pe pistă și vor rula la sol/aerian conform rutelor standard de rulare. De la intrarea pe TWY F comandantul aeronavei urmează marcajele până la punctul în care are la vedere dispecerul de sol, urmând semnalele acestuia până la oprire.
- În cazul în care pilotul unei aeronave care nu efectuează self manoeuvring, aflată în rulaj pe TWY F, nu are la vedere dispecerul de sol, în dreptul poziției de parcare comunicate de TWR, oprește aeronava și solicită ATC, prezența acestuia.

LRBM AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRBM - BAI A MARE / Maramureş

LRBM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	473930N 0232758E, 099° GEO / 1250 M from THR 09
2	Direction and distance from (city)	279° GEO / 10 km from Baia Mare
3	Elevation/Reference temperature/mean low temperature	606 FT / 29.7°C / -15.6°C
4	Geoid undulation at AD ELEV PSN	130 FT
5	MAG VAR/ Annual change	6° E (2016) / 0.12°, increasing
6	AD Administration, address, telephone, telefax, e-mail, AFS, website	AEROPORTUL INTERNAŢIONAL MARAMUREŞ R.A., Str. 66, Nr. 22, Tăuţii Măgherauş, jud. Maramureş, cod poştal 437345 Tel: +40-(0)770-431771 Tel: +40-(0)262-293444 Fax: +40-(0)262-223394 E-mail: office@aimm.eu. Alternate: ground@aimm.eu AFS: LRBMRAYD Web: www.aimm.eu
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Telephone numbers are available during LRBM AD operational hours only. For operations out of operational hours, contact e-mail: ground@aimm.eu.

LRBM AD 2.3 OPERATIONAL HOURS

1	AD Administration	MON-THU W: 0300-2200, S: 0200-2100; FRI W: 0300-1500, S: 0200-1400; SUN W: 1800-2200, S: 1700-2100.
2	Customs and immigration	As AD Administration
3	Health and sanitation	As AD Administration
4	AIS Briefing Office	As AD Administration
5	ATS Reporting Office (ARO)	As AD Administration
6	MET Briefing Office	As AD Administration
7	ATS	W: 0500-1700; S: 0400-1600
8	Fuelling	As AD Administration
9	Handling	As AD Administration
10	Security	As AD Administration
11	De-icing	As AD Administration
12	Remarks	Outside the operational hours of the AD, services listed above are available O/R, submitted to the AD and approved with at least 24 hours in advance.

LRBM AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	2 electric trucks, 2 electric tractors, 18 baggage trailers, 1 air start unit, 1 air conditioning unit, 4 self-propelled passenger stairs, 2 self-propelled conveyorbelts, 2 mobile GPU 115/200V-400HZ and 28V, 1 lavatory service trailer, 1 potable-water trailer, 1 airport passenger/crew minibus.
2	Fuel/oil types	JET A1 / NIL
3	Fuelling facilities/capacity	1 refueling truck 25000 litres, 22 litres/second
4	De-icing facilities	2 de-icing units with heated water, heated SAE Type I fluid/water mixture and unheated SAE Type II fluid.
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	For details regarding refuelling and fuel rate contact fuel provider at phone no. +40-(0)757-031166, e-mail aeroport.baia mare@eurospeed.ro, http://eurospeed.ro/servicii_conexe_transportului_aerian.html .

LRBM AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city and neighborhood.
2	Restaurants	Snack bar on the airport, restaurants in the city and neighborhood.
3	Transportation	Taxis from the AD.
4	Medical facilities	1 ambulance on the airport, 1 first aid room on the airport, hospitals in the city.
5	Bank and Post Office	Banks and Post Offices in the city.
6	Tourist Office	Office in the city. Tel: +40-(0)262-206113; Fax: +40-(0)262-206114; email: office@visitmaramures.ro; www.visitmaramures.ro .
7	Remarks	NIL

LRBM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	<i>AD category for fire fighting</i>	Within AD HR: CAT 7.
2	<i>Rescue equipment</i>	Rescue/cut-in equipment: 1 electrical portable rescue equipment, 1 powered rescue saw, 1 oscillating saw; Ladders: 3 extension rescue ladders; Rescue tool box: 1 set.
3	<i>Capability for removal of disabled aircraft</i>	Maximum removal capability: code letter A aircraft, wingspan < 15 m.
4	<i>Remarks</i>	NIL

LRBM AD 2.7 RUNWAY SURFACE CONDITION ASSESMENT AND REPORTING, AND SNOW PLAN

1	<i>Types of clearing equipment</i>	2 snow blower, 1 tractor with blade, 2 snow plough with jet sweeper, 1 multi-function snow-clearing equipment with snow-blower, blade, sweeper and RWY deicing sprayer with liquid, 1 truck with RWY deicing sprayer with liquid and solid mixture.
2	<i>Clearance priorities</i>	1. RWY 09/27 and associated TWY to Apron 2. Apron
3	<i>Use of material for movement area surface treatment</i>	Runway de-icer liquid used for RWY, TWYs and Apron de-icing is based on potassium formate (KFOR). Runway de-icer solid used for RWY, TWYs and Apron de-icing is based on sodium formate (NAFO).
4	<i>Specially prepared winter runways</i>	NIL
5	<i>Remarks</i>	Information on snow clearance is based of Runway Condition Report (RCR) and published in NOTAM (SNOWTAM) with respect of Global Reporting Format (GRF) method. The RCR is continuously updated and forwarded to air traffic services and to aeronautical information services for transmission to the flight crew by SNOWTAM and radio broadcast. See also the snow plan in section AD 1.2.

LRBM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	<i>Apron designation, surface and strength</i>	Designation: APRON Surface: Concrete Strength: 59/R/D/W/T																
2	<i>Taxiway designation, width, surface and strength</i>	<table border="0"> <tr> <td>Designation:</td> <td>TWY A</td> <td>TWY B</td> <td>TWY C</td> </tr> <tr> <td>Width:</td> <td>18 M</td> <td>18 M</td> <td>18 M</td> </tr> <tr> <td>Surface:</td> <td>Asphalt</td> <td>Asphalt</td> <td>Concrete</td> </tr> <tr> <td>Strength:</td> <td>59/R/D/W/T</td> <td>59/R/D/W/T</td> <td>60/R/D/W/T</td> </tr> </table>	Designation:	TWY A	TWY B	TWY C	Width:	18 M	18 M	18 M	Surface:	Asphalt	Asphalt	Concrete	Strength:	59/R/D/W/T	59/R/D/W/T	60/R/D/W/T
Designation:	TWY A	TWY B	TWY C															
Width:	18 M	18 M	18 M															
Surface:	Asphalt	Asphalt	Concrete															
Strength:	59/R/D/W/T	59/R/D/W/T	60/R/D/W/T															
3	<i>Altimeter checkpoint location and elevation</i>	Location: APRON Elevation: 597FT(182M)																
4	<i>VOR checkpoints</i>	NIL																
5	<i>INS checkpoints</i>	See AD 2.3-22																
6	<i>Remarks</i>	INS points represent COCKPIT STOP POSITION of parked aircraft. TWY C is an apron taxiway.																

LRBM AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands</i>	Aircraft stand ID signs: NIL. TWY guide lines: provided for TWY A,B,C. Visual docking guidance system of aircraft stands: NIL. Visual parking guidance system of aircraft stands: aircraft stand markings and aircraft stand maneuvering guidance lights.
2	<i>RWY and TWY markings and LGT</i>	RWY: Designation, aiming point, marked. THR, TDZ, centre line, edge line, runway end, marked and lighted. TWY A, B: Enhanced centre line, marked; Centre line, edge lines, holding position, marked and lighted. TWY C: Centre line, edge line South, marked and lighted.
3	<i>Stop bars</i>	TWY A, B: Stop bars and runway guard lights at holding position. TWY A, B: Mandatory instruction marking at holding positions, enhanced taxiway centre line marking.
4	<i>Remarks</i>	Aircraft must follow stand guidelines with COCKPIT OVER THE CENTER LINE.

LRBM 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
09	2150	2150	2150	2150	NIL
27	2150	2150	2150	2150	NIL

LRBM AD 2.14 APPROACH AND RWY LIGHTING

<i>RWY Designator</i>	<i>APCH LGT type</i>	<i>THR LGT colour</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</i>	<i>SWY LGT colour</i>	<i>LEN (M)</i>	<i>Remarks</i>
1	2	3	4	5	6	7	8	9	10	
09	CAT II 900M LIH	Green Yes	PAPI Left/3° (52FT)	900M	2150M, 15 M FM 0M-1245M White; FM 1245M-1845M Red/White; FM 1845M Red; LIH	2150M, 60M FM 0M-1560M White; FM 1560M Yellow; LIH	Red -	NIL		NIL
27	NIL	Green NIL	PAPI Left/3.6° (53FT)	NIL	2150M, 15M FM 0M-1250M White; FM 1250M-1850M Red/White; FM 1850M Red; LIH	2150M, 60M FM 0M-1550M White; FM 1550M Yellow; LIH	Red -	NIL		NIL

LRBM 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>	LDI: NIL Anemometer: 300M from THR 09, not lighted.
3	<i>TWY edge and centre line lighting</i>	Edge: TWY A, B Edge: Apron TWY C, South only Centre line: TWY A, B, C
4	<i>Secondary power supply/switch-over time</i>	Secondary power supply to all lighting at AD. Switch-over time: 1 SEC
5	<i>Remarks</i>	NIL

LRBM AD 2.16 HELICOPTER LANDING AREA

1	<i>Co-ordinates TLOF or THR of FATO</i>	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 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

LRBM AD 2.17 ATS AIRSPACE

1	<i>Designation and lateral limits</i>	BAIA MARE CTR 474553N 0231634E - arc of circle centred at 473930N 0232758E (ARP) and radius 10 NM - 473602N 0231406E - 473642N 0230846E - 474140N 0230939E - 474702N 0230719E - 474553N 0231634E
2	<i>Vertical limits</i>	SFC to FL55
3	<i>Airspace classification</i>	C
4	<i>ATS unit call sign Language(s)</i>	Baia Mare Tower English, Romanian
5	<i>Transition altitude</i>	4000 FT AMSL
6	<i>Hours of applicability</i>	W: 0500-1700; S: 0400-1600
7	<i>Remarks</i>	NIL

LRBM AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	Baia Mare Tower	118.855 118.100 MHz ALTN 121.500 MHz EMERG	NIL	NIL	H24	Exempted 8.33 kHz State aircraft.

LRBM 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 09 (6°E/2016) ILS CAT II	IBM	109.300 MHz	H24	473924.4N 0232847.6E		Front course angle 5.22°
GP 09		332.000 MHz	H24	473930.9N 0232710.9E		GP Angle 3.0° ILS RDH 54.1 FT
DME 09	IBM	1054.000 MHz CH 30X	H24	473930.7N 0232711.0E	600FT	
NDB (LO)	BMR	404 KHz	H24	474016.4N 0232045.5E		Coverage 100 NM (declared)
NDB(LM)	M	266 KHz	H24	473941.3N 0232609.3E		NIL

LRBM AD 2.20 LOCAL AERODROME REGULATIONS

1. Airport regulations

1.1. All aircraft stand markings and lights are designed for self-maneuvering operation and COCKPIT OVER THE CENTERLINE manner of following guidelines.

1.2. Aircraft guidance by visual signals on apron provided by a marshaller only O/R of the pilot in command.

1.3. ATC boundary line is located on apron accordingly to aerodrome chart. ATC boundary line is parallel to apron TWY C centerline and located 26M North from TWY C centerline.

1. Reguli de aeroport

1.1. Toate marcajele de platformă și luminile aeronautice aferente sunt proiectate pentru operare în regim self-maneuvering. Mișcarea aeronavelor se va face respectând principiul COCKPIT OVER THE CENTERLINE.

1.2. La solicitarea pilotului aeronavei, se poate asigura dirijare manuală operată de un dispecer.

1.3. Pe harta de aerodrom se găsește marcată limita de responsabilitate a organului de trafic aerian. Această limită este paralelă cu calea de rulare de platformă C și este situată la 26 de metri nord față de axul căii de rulare C.

2. Standard Taxi Routes / Rutele standard de rulare la sol**2.1 Arrival information / Informații după aterizare**

Arrival on	Instruction given by ATC					Taxiway to be followed	Remarks
		Name of the Standard Taxi Route					
RWY 09 RWY 27	Taxi via Standard taxi route	Arrival 1	To	Apron	stand number 1	TWY A	
		Arrival 2			stand number 2	TWY A, TWY C	
		Arrival 3			stand number 3		

2.2 Departure information / Informații la decolare

Departure from	Instruction given by ATC					Taxiway to be followed	Remarks
		Name of the Standard Taxi Route					
Stand number 1	Taxi via Standard Taxi Route	Departure 1	To runway holding position on TWY	A	RWY 09 RWY 27	TWY A	
Stand number 2		Departure 2				TWY C, TWY A	
Stand number 3		Departure 3					

3. Parking Area For Helicopters / Zona de parcare pentru elicoptere

After landing on runway 09/27 helicopters will perform ground taxiing or air-taxiing to the designated stand on apron using the taxiways.

On departure helicopters will perform ground taxiing or air-taxiing to runway 09/27 using the taxiways.

Helicopter parking on apron is permitted only at visual signals provided by a marshaller.

După aterizarea pe pista 09/27, elicopterele vor efectua rulare la sol sau rulare aeriană spre standul alocat pe platformă utilizând căile de rulare.

La plecare, elicopterele vor efectua rulare la sol sau rulare aeriană până la pista 09/27 utilizând căile de rulare.

Parcarea elicopterelor pe platformă este permisă numai la semnalele dispecerului sol.

4. Apron - Taxiing During Winter Conditions / Platforma - rulara la sol în condiții de iarnă

During winter conditions when the taxiways, stands centre line lights and taxi guide lines and lights are not visible, guidance and parking with visual signals will be provided by a marshaller.

În condiții de iarnă când luminile axului căilor de rulare și marcajele și luminile de ghidare la sol ale pozițiilor de parcare nu sunt vizibile, dirijarea și parcare se face la semnalele dispecerului sol.

5. Helicopter Traffic - Limitations / Operarea elicopterelor – Limitări

Helicopters landings and take-offs are permitted only on runway.

Helicopters landings straight to / take-offs straight from apron stand are not permitted.

Aterizările și decolările elicopterelor sunt permise numai pe pistă.

Aterizările elicopterelor direct spre / decolările direct din poziția de parcare pe platformă nu sunt permise.

LRBM AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3



LRBM AD 2.22 FLIGHT PROCEDURES

1. Low visibility procedures - LVP

During low visibility operation, ATC capacity is reduced. To ensure aircraft safety and an optimal ATC capacity, Maramures International Airport applies Low Visibility Operating Procedures, LVP, approved by the Romanian Civil Aeronautical Authority.

1.1. Description of facilities

a) Runway 09 is equipped with ILS and is certified for CAT II (RVR not less than 300m) operations.

b) Runway 09 is certified for low visibility take-off - LVTO (RVR not less than 125m) operations.

c) Runway 27 is certified for low visibility take-off - LVTO (RVR not less than 125m) operations.

d) ILS GP and LOC critical and sensitive areas are protected during LVP and LVTO operations.

1.2. Criteria for the initiation and termination of LVP

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

1.2.2. The operation phase will be commenced for:

a) Approach and landing, when the RVR falls below 550m (horizontal visibility falls below 800m) or cloud base / vertical visibility is 200ft or less;

b) Take-off - LVTO, when RVR falls below 400m.

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

1.2.4. Operations in simulated low visibility conditions may be requested by the pilot with at least 20 minutes prior the estimated time of departure (ETD) / estimated time of arrival (ETA).

1.3. Details of runway exits

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

1.3.2 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 A and B.

1.4. Ground movements restrictions

1.4.1 All aircraft movements on taxiways to/from RWY 09/27 shall be carried out on Standard Taxi-Routes, with "cockpit over the center line" concept.

1. Proceduri în condiții de vizibilitate redusă - LVP

Pe timpul operării în condiții de vizibilitate redusă, capacitatea ATC este redusă. Pentru a asigura siguranța aeronavelor și o capacitate ATC optimă, Aeroportul Internațional Maramures aplică proceduri de operare în condiții de vizibilitate redusă, LVP, aprobate de Autoritatea Aeronautică Civilă Română.

1.1. Descrierea facilităților

a) Pista 09 este echipată cu ILS și este certificată pentru desfășurarea operațiunilor CAT II (RVR nu mai mic de 300m).

b) Pista 09 este certificată pentru decolare în condiții de vizibilitate redusă - LVTO (RVR nu mai mic de 125m).

c) Pista 27 este certificată pentru decolare în condiții de vizibilitate redusă - LVTO (RVR nu mai mic de 125m).

d) Zonele critice și sensibile ILS GP și LOC sunt protejate pe timpul operațiunilor LVP și LVTO.

1.2. Criterii pentru inițierea și terminarea LVP

1.2.1. Faza de pregătire va fi declanșată atunci când RVR are valoarea de 800m (vizibilitate orizontală 1500m) sau înălțimea bazei norilor / vizibilitatea verticală este de 500ft și este prevăzută declanșarea operațiunilor CAT II.

1.2.2. Faza operațională va fi declanșată pentru:

a) Apropiere și aterizare, atunci când valoarea RVR scade sub 550m (vizibilitatea orizontală scade sub 800m) sau înălțimea bazei norilor / vizibilitatea verticală are valoare de 200ft sau mai puțin.

b) Decolare - LVTO, când RVR este mai mică de 400m.

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

1.2.4. Operarea în condiții simulate de vizibilitate redusă poate fi solicitată de către pilot cu minimum 20 min înainte de ora: minutul estimat de decolare (ETD) / ora: minutul estimat de aterizare (ETA).

1.3. Detalii privind eliberarea pistei

1.3.1. Ieșirile de la pistă sunt echipate cu lumini axiale codificate verde/galben.

1.3.2 Piloții vor raporta "PISTA LIBERĂ, DEPĂȘIT POZIȚIA DE AȘTEPTARE CAT II" numai după ce aeronava a depășit segmentul codat cu lumini verde / galben al axului căilor de rulare A și B.

1.4. Restricții privind mișcarea la sol

1.4.1 Toate mișcările pe căile de rulare spre/dinspre RWY 09/27 se efectuează numai pe Rutele Standard de Rulare, după conceptul "cockpit over the center line".

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

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

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

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

1.5. Approach and Landing in CAT II conditions

a) Pilots will be informed by 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 9NM distance to TDZ (RWY 09), when the preceding aircraft, in landing sequence, landed.

c) Aircraft movements on apron surface are monitored by Marshalls and, on pilots request, they provide marshalling guidance;

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

e) All ATC instructions shall be confirmed through READ BACK method.

f) In uncommon case when a pilot have any doubt as to its exact position on the movement area in low visibility conditions, a LEADER CAR vehicle is provided on pilot's request for guiding the aircraft to the designated parking position on the apron.

Caution: The OCA (OCH) for CAT II operations were calculated for a missed approach climb gradient (MACG) of 4% that is different from the standard gradient 2,5%. It is prohibited to establish minima and perform CAT II operations with aircraft whose performance does not allow the 4% climb gradient to be reached during the missed approach procedure.

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

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

1.4.4 Când LVP este în derulare, accesul vehiculelor pe suprafața de manevră nu va fi permis, cu excepția vehiculelor pentru intervenții de urgență (tehnice, salvare și stingere incendii) și vehiculul leader car;

1.4.5 Este strict interzisă traversarea unui aliniament STOP BAR care are luminile roșii aprinse.

1.5. Apropierea și aterizarea în condiții CAT II

a) Piloții vor fi informați prin RTF atunci când procedurile LVP sunt în derulare.

b) CTA vor aplica o eșalonare a aeronavelor astfel încât aeronava aflată în procedură de apropiere să nu fie la o distanță mai mică de 9NM față de TDZ (RWY 09) în momentul în care, aeronava care a precedat-o în secvența de trafic, a aterizat.

c) Mișcarea aeronavelor pe suprafața platformelor aeroportului este monitorizată de către Dispecerii Sol, iar la cererea piloților aceștia asigură ghidarea la sol a aeronavelor;

d) Numărul vehiculelor cărora li se permite accesul pe suprafața platformelor se reduce strict la minimum necesar pentru deservirea aeronavelor.

e) Instrucțiunile emise de ATC vor fi confirmate prin READ BACK (repetarea conținutului).

f) În cazul excepțional al pierderii orientării unui pilot pe suprafața de mișcare în condiții LVP, este utilizat la cererea pilotului un autovehicul LEADER CAR pentru însoțirea aeronavei până la locul de parcare desemnat pe platformă.

Atenție: OCA (OCH) pentru operațiunile CAT II au fost calculate pentru un gradient de urcare pe timpul apropierii întrerupte (MACG) de 4%, diferit de gradientul standard de 2,5%. Este interzisă stabilirea de minime și desfășurarea de operațiuni CAT II cu aeronave ale căror performanțe nu permit atingerea unui gradient de urcare de 4% pe timpul procedurii de întrerupere a apropierii.

LRBM AD 2.23 ADDITIONAL INFORMATION

There may be concentrations of birds on or near Maramures International Airport LRBM - Baia Mare.

Birds fly from the resting area (E of the airport) across the runway to their feeding area near the river (W of the airport).

The lands are used by birds especially in spring and autumn. Height varies from 0 - 1500 ft (0 - 450 m) AGL.

The directions of movement of the birds are represented on chart AD 2.2-46 LRBM.

As far as practicable, aerodrome control will inform pilots of this bird activity and the estimated heights AGL.

Pot exista concentrații de păsări pe sau în apropierea Aeroportului Internațional Maramureș LRBM - Baia Mare.

Păsările se deplasează în zbor din zona de odihnă (est față de aeroport) peste pistă, spre zona lor de hrănire aflată lângă râu (vest față de aeroport).

Terenurile sunt folosite de păsări în special primăvara și toamna. Înălțimea zborului variază între 0 - 1500 ft (0 - 450 m) de la nivelul solului AGL.

Direcțiile de deplasare ale păsărilor sunt reprezentate pe harta AD 2.2-46 LRBM.

Pe cât posibil, turnul de control va informa piloții cu privire la activitatea păsărilor și înălțimea AGL de zbor a acestora.



During the above periods pilots of aircraft are advised to be careful when taking off and while approaching for landing and, where the design limitations of aircraft installations permit, to operate landing lights in flight, within the terminal area and during take-off, approach-to-land and climb and descent procedures.

Dispersal activities include occasional playing back of distress calls from tape together with firing of shell crackers, supplemented by the use of electronic propane gas cannon.

În perioadele sus-menționate piloții aeronavelor sunt rugați să fie foarte atenți în timpul decolării și în timpul zborului de apropiere pentru aterizare și în plus, dacă instalațiile aeronavei o permit, să utilizeze luminile de aterizare în timpul zborului, în zonele de apropiere finală, de decolare și de apropiere, precum și la procedurile de urcare și de coborâre.

Activitățile de dispersie includ emiterea ocazională de sunete de pericol ale păsărilor înregistrate pe bandă, detonarea de petarde inclusiv efectuarea de trageri cu tunul electronic cu gaz propan.

LRBM AD 2.24 CHARTS RELATED TO THE AERODROME

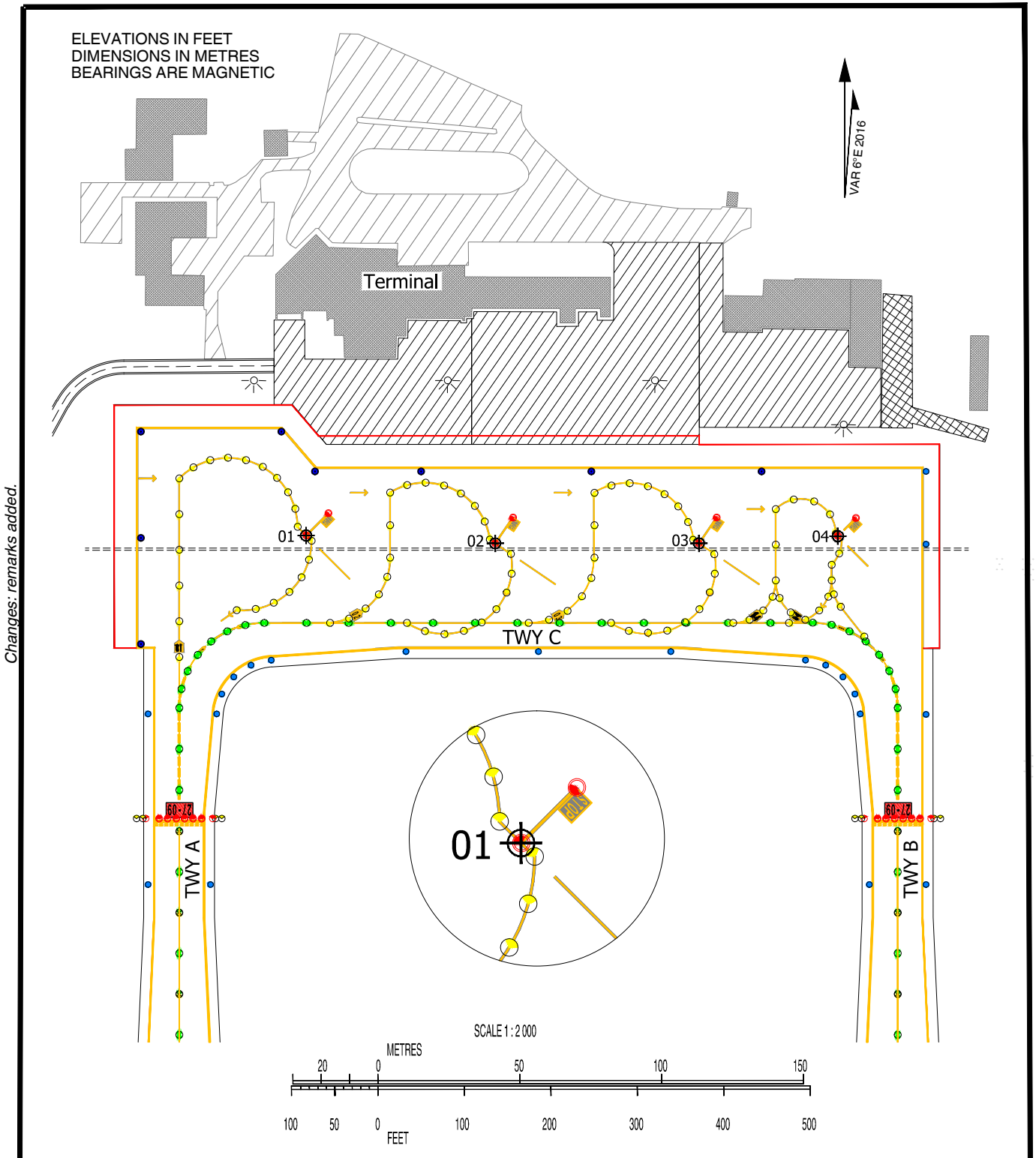
Aerodrome Chart – ICAO	AD 2.3-20
Aircraft Parking/Docking Chart – ICAO	AD 2.3-22
Aerodrome Obstacle Chart – ICAO – Type A	
RWY 09 / 27	AD 2.3-25
Precision Approach Terrain Chart – ICAO	
RWY 09	AD 2.3-28
Bird concentrations in the vicinity of the aerodrome	AD 2.3-46
Instrument Approach Charts – ICAO	
RWY 09 ILS Y – CAT A, B	AD 2.3-51
RWY 09 ILS Z – CAT C, D	AD 2.3-52
RWY 09 LOC Y – CAT A, B	AD 2.3-61
RWY 09 LOC Z – CAT C, D	AD 2.3-62
RWY 09 NDB W – CAT A, B	AD 2.3-91
RWY 09 NDB X – CAT C, D	AD 2.3-92
RWY 09 NDB Y – CAT A, B	AD 2.3-93
RWY 09 NDB Z – CAT C, D	AD 2.3-94

**AIRCRAFT PARKING /
DOCKING CHART - ICAO**

**APRON ELEV
597FT**

TWR 118.855
TWR 118.100 ALTN

**BAIA MARE / Maramureş
(LRBM)**



Remarks: Helicopters landings and take-offs are permitted only on runway.
Helicopters landings and take-offs straight to/from apron stand are not permitted.

MAX ACFT TYPE	STANDS
B737 - 800	01
B737 - 800	02
B737 - 800	03
ATR42	04

INS CHECK POINTS COORDINATES			
01	47°39'36.99"N	23°27'58.09"E	
02	47°39'36.56"N	23°28'01.23"E	
03	47°39'36.19"N	23°28'04.63"E	
04	47°39'36.02"N	23°28'06.96"E	

LEGEND	
AIRCRAFT STAND	01
TAXI HOLDING POSITION	
FLOODLIGHT	
INS CHECK POINT	
BUILDING	
APRON SAFETY LINES	
ATC SERVICE BOUNDARY	

LRCV 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

LRCV AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	CRAIOVA CTR A circle, radius 20 NM centred at 441905N 0235319E (ARP)
2	Vertical limits	SFC to FL55
3	Airspace classification	C
4	ATS unit call sign Language(s)	Craiova Tower English, Romanian
5	Transition altitude	3 000 FT AMSL
6	Hours of applicability	As ATS
7	Remarks	NIL

LRCV AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
APP/TWR	Craiova Tower	129.530 124.300 MHz ALTN 121.500 MHz EMERG	NIL	NIL	As ATS	Exempted 8.33 kHz State aircraft.

LRCV 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
DVOR/DME (4°E/2010)	CRV	110.200 MHz (CH 39X)	H24	441907.0N 0235521.9E	600 FT	086° MAG / 0.80 NM from THR 27 Coverage 100 NM (assumed)
LOC 27 (4°E/2010) ILS CAT I	ICV	108.700 MHz	H24	441904.4N 0235207.9E		Front course angle 4.34°
GP 27	-	330.500 MHz	H24	441909.8N 0235401.4E		GP angle 3.0° ILS RDH 54 FT
DME	ICV	CH 24X	H24	441909.9N 0235401.3E	600 FT	

LRCV AD 2.20 LOCAL AERODROME REGULATIONS

- NIL -

LRCV AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3

LRCV AD 2.22 FLIGHT PROCEDURES

- NIL -

LRCV AD 2.23 ADDITIONAL INFORMATION

- NIL -

LRCV AD 2.24 CHARTS RELATED TO THE AERODROME

Aerodrome Chart - ICAO	AD 2.9-20
Aerodrome Parking/Docking Chart - ICAO	AD 2.9-22
Aerodrome Obstacle Chart – ICAO – Type A	AD 2.9-25
Instrument Approach Charts - ICAO	
RWY 27 ILS CAT A / B	AD 2.9-51
RWY 27 ILS CAT C / D	AD 2.9-52
RWY 27 VOR CAT A / B	AD 2.9-81
RWY 27 VOR CAT C / D	AD 2.9-82
RWY 09 VOR/DME	AD 2.9-83
RWY 27 NDB – CAT A / B	AD 2.9-91
RWY 27 NDB – CAT C / D	AD 2.9-92



LROD 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
19	191.17°	2100 x 45	60 R/D/W/U Concrete	470159.71N 0215416.92E 470057.77N 0215359.04E GUND 136 FT	THR 450.4 FT TDZ 452.7 FT	0.25% (150 M) 0% (900 M) 0.4% (900 M) 0.8% (150 M)
01	011.16°	2100 x 45	60 R/D/W/U Concrete	470102.53N 0215400.42E 470204.47N 0215418.29E GUND 136 FT	THR 464 FT	-0.8% (150 M) -0.4% (900 M) 0% (900 M) -0.25% (150 M)
SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)	Location and description of ARST system		Remarks
8	9	10	11	12	OFZ	14
NIL	60 x 180	2220 x 250	90 x 150	NIL	NIL	NIL
NIL	400 x 180	2220 x 250	370 x 150	NIL	NIL	NIL

LROD AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
19	2100	2160	2100	1950	NIL
01	2100	2500	2100	1950	NIL

LROD AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI 3°	TDZ, LGT, LEN	RWY Centre Line Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN(M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
19	CAT II 900M LIH	Green WBAR	PAPI (50FT) 3°	White 900M	1050M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M Red, LIH	1350M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	Red edge lights, 150M before THR, only on approach direction
01	SALS 420M LIH	Green WBAR	PAPI (49FT) 3°	NIL	1050M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M Red, LIH	1350M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	Red edge lights, 150M before THR, only on approach direction

LROD 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 NIL
3	TWY edge and centre line lighting	TWY A and TWY B edge blue omnidirectional lights LIL, 60M (15M) spacing TWY centre line green/green; yellow/green lights, 15M (7.5M) spacing TWY C edge blue omnidirectional LIL, 30M spacing TWY C centre line: Nil
4	Secondary power supply/switch-over time	Secondary power supply for all lighting on the AD; Switch-over time 1 sec.
5	Remarks	NIL

LROD AD 2.16 HELICOPTER LANDING AREA

1	Coordinates 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

LROD AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	ORADEA CTR A circle, radius 16 NM centred at 470131N 0215409E (ARP), limited by FIR boundary
2	Vertical limits	SFC to FL55
3	Airspace classification	C
4	ATS unit call sign Language(s)	Oradea Tower English, Romanian
5	Transition altitude	3000 FT (1000 M) AMSL
6	Hours of aplicability	As ATS
7	Remarks	NIL

LROD AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	Oradea Tower	118.455 120.200 MHz ALTN	NIL	NIL	W: 0500-1900 S: 0400-1800	Exempted 8.33 kHz State aircraft.
APP	Oradea Tower	121.500 MHz EMERG 120.200 MHz	NIL	NIL	W: 0500-1900 S: 0400-1800	Procedural service

LRSM AD 2.16 HELICOPTER LANDING AREA

1	Coordinates 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

LRSM AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	SATU MARE CTR 474738N 0222632E - FIR boundary - 474437N 0222510E - 473332N 0223120E - 472706N 0224758E - 472929N 0230730E - 474140N 0230939E - 475910N 0230200E - FIR boundary - 474738N 0222632E
2	Vertical limits	SFC to FL55
3	Airspace classification	C
4	ATS unit call sign Language(s)	Satu Mare Tower English, Romanian
5	Transition altitude	4000 FT (1200 M) AMSL
6	Hours of aplicability	As ATS
7	Remarks	NIL

LRSM AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	Satu Mare Tower	119.655 118.800 MHz ALTN	NIL	NIL	W: 0500 - 1700 S: 0400 - 1600	Days of operation: Monday - Saturday Exempted 8.33 kHz State aircraft.
APP	Satu Mare Tower	121.500 MHz EMERG 118.800 MHz	NIL	NIL	W: 0500 - 1700 S: 0400 - 1600	Procedural service Days of operation: Monday - Saturday

LRSM 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	Site of Transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME (5°E/2017)	SAT	108.400 MHz (CH 21X)	H24	474338.7N 0225337.9E	500 FT	009° MAG / 0.8 NM from THR 19 Coverage 150 NM (assumed)
LOC 19 (5°E/2017) ILS CAT II	ISM	110.950 MHz	H24	474123.7N 0225251.8E		Front course angle 4.31°
GP 19	-	330.650 MHz	H24	474241.1N 0225323.5E		GP Angle 3° ILS RDH 54 FT
DME 19	ISM	CH 46Y	H24	474240.9N 0225323.7E	400 FT	

LRSM AD 2.20 LOCAL AERODROME REGULATIONS

- NIL -

LRSM AD 2.21 NOISE ABATEMENT PROCEDURES

See AD 1.1-3

LRSM AD 2.22 FLIGHT PROCEDURES

- NIL -

LRSM AD 2.23 ADDITIONAL INFORMATION

- NIL -

LRSM AD 2.24 CHARTS RELATED TO THE AERODROME

Aerodrome Chart - ICAO	AD 2.12-20
Aircraft Parking/Docking Chart - ICAO	AD 2.12-22
Aerodrome Obstacle Chart - ICAO – Type A.....	AD 2.12-25
Instrument Approach Charts - ICAO	
RWY 19 ILS CAT A, B.....	AD 2.12-51
RWY 19 ILS CAT C, D.....	AD 2.12-52
RWY 19 VOR CAT A, B	AD 2.12-81
RWY 19 VOR CAT C, D.....	AD 2.12-82
RWY 01 VOR.....	AD 2.12-83

LRSB AD 2.1 AERODROME LOCATION INDICATOR AND NAME
LRSB - SIBIU / Sibiu

LRSB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	<i>ARP coordinates and site at AD</i>	454709N 0240508E Runway centre.
2	<i>Direction and distance from city</i>	270°, 3 km from Sibiu.
3	<i>Elevation/Reference temperature/Mean low temperature</i>	1520 FT / 28.1°C / -17.8°C
4	<i>Geoid undulation</i>	138 FT
5	<i>MAG VAR/ Annual rate of change</i>	5°E (2010)
6	<i>AD Administration, address, telephone, telefax, e-mail, AFS, website</i>	Aeroportul International Sibiu Șos. Alba Iulia, nr. 73, Sibiu, cod 550052 Tel: +40-(0)269-253135 Fax: +40-(0)269-253131; +40-(0)269-253047 AFS: LRSBRAYD
7	<i>Types of traffic permitted (IFR/VFR)</i>	IFR/VFR
8	<i>Remarks</i>	NIL

LRSB AD 2.3 OPERATIONAL HOURS

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

LRSB AD 2.4 HANDLING SERVICES AND FACILITIES

1	<i>Cargo-handling facilities</i>	5 tractor for equipments, 20 trailers, 1 dollies pallet, 3 self-propeller conveyor-belt loader, 4 self-propeller stairs, 2 tractable stairs, 1 highloader, 1 forklift.
2	<i>Fuel/Oil types</i>	Kerosene JET A1 / NIL AVGAS 100LL / NIL
3	<i>Fueling facilities/capacity</i>	Kerosene JET A1: 1 refueling truck of 20t / storage depot of 100 m ³ AVGAS 100LL: 1 unit 8m ³
4	<i>De-icing facilities</i>	Two units with liquid killfrost type ABC II plus minimal rate 120L/min
5	<i>Hangar space for visiting aircraft</i>	NIL
6	<i>Repair facilities for visiting aircraft</i>	NIL
7	<i>Remarks</i>	3 GPU units 115V and 28V 1 self-propeller lavatory service vehicle, 1 tractable lavatory service unit 1 self-propeller portable water vehicle, 1 tractable potable water unit 1 cabin/engine heater equipment 1 air start unit

LRSB AD 2.5 PASSENGER FACILITIES

1	<i>Hotels</i>	Hotels in the city.
2	<i>Restaurants</i>	Restaurant, snack bar on the AD, HO
3	<i>Transportation</i>	Buses, taxis and airport shuttle bus.
4	<i>Medical facilities</i>	1 ambulance and first aid on the AD. Hospitals in the city
5	<i>Bank and Post Office</i>	In the city.
6	<i>Tourist Office</i>	At the AD.
7	<i>Remarks</i>	NIL

LRSB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	<i>AD category for fire fighting</i>	Within AD HR: CAT 7.
2	<i>Rescue equipment</i>	1 rescue equipment type HOLMATRO
3	<i>Capability for removal of disabled aircraft</i>	NIL
4	<i>Remarks</i>	NIL

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

1	<i>Types of clearing equipment</i>	2 trucks with brush, blade and snowblower, 1 autospreader de-icing, 1 truck with brush and snowblower, 3 small trucks with blade, cup and spreader de-icing.
2	<i>Clearance priorities</i>	1. RWY 09/27 2. TWY 3. Apron
3	<i>Use of material for movement area surface treatment</i>	Generic fluids and solid materials used for runway de/anti-icing are KAC (sodium formate) and NAAC (ammonium nitrate).
4	<i>Specially prepared winter runways</i>	NIL
5	<i>Remarks</i>	Information about Runway surface condition in Global Reporting Format published by SNOWTAM. See also the snow plan in section AD 1.2.

LRSB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	<i>Apron designation, surface and strength</i>	APRON 1 APRON 2 Surface: Concrete Concrete Strength: 110/R/D/W/T 56/R/D/W/T
2	<i>Taxiway designation, width, surface and strength</i>	Width: TWY E: 25 M ; TWY W, N: 18 M Surface: Concrete Strength: TWY E: 110/R/D/W/T, TWY W, N: 56/R/D/W/T
3	<i>ACL location and elevation</i>	Location: APRON1 Elevation: 1451 FT
4	<i>VOR checkpoints</i>	NIL
5	<i>INS checkpoints</i>	See Aircraft parking chart AD 2.13-22
6	<i>Remarks</i>	RWY turning bay: Location THR 09 and THR 27 Surface: Concrete Dimensions: 15M x 100M Strength : 110/R/D/W/T

LRSB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands</i>	Taxiing guidance signs at intersection with TWY and RWY, at holding positions; guide lines on the apron.
2	<i>RWY and TWY markings and LGT</i>	RWY - markings: color white; designation, THR, TDZ, centre line, aiming point, edges, RWY end marked as appropriate. - lights: runway edges lights, THR lights, runway end lights, wing bar lights, runway centerline lights, TDZ lights on RWY 27, STOPWAY lights on RWY 09. TWY E, W - markings: color yellow; centre line, runway holding position, edges, enhanced centerline, runway designator marking. - lights: centerline lights, taxiway edges lights, stop bar lights, runway guard lights. TWY N - markings: color yellow; centre line, edges. - lights: centerline lights, taxiway edges lights.
3	<i>Stop bars</i>	Red stop bars at all intersections of TWYs with RWY.
4	<i>Remarks</i>	Illuminated wind direction indicators are located adjacent to TDZ of RWY 27 and RWY 09.

LRSV AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
34	2460	2605	2460	2040	NIL
16	2460	2460	2460	2460	NIL

LRSV AD 2.14 APPROACH AND RWY LIGHTING

RWY Designator	APCH LGT type	THR LGT colour	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY	RWY	RWY End LGT colour	RWY SWY LGT LEN(M) colour	Remarks
					Centre Line LGT Length, spacing, colour, INTST	edge LGT LEN, spacing, colour, INTST			
1	2	3	4	5	6	7	8	9	10
34	CAT II 720 M LIH	Green WBAR	PAPI 3°	White 900M	1140M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M White, LIH	1440M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	To be supplementary considered: C/L LGT White, 420M, 15M, LIH only on RWY 34 departure; Red edge lights, 420M, 60M, LIH, before THR, only for approach operations White edge LGT, 420M, 60M, LIH, before THR, only for departure operations.
16	SALS 420 M LIH	Green WBAR	PAPI 3°	NIL	1560M, 15M White, LIH 600M, 15M White/Red, LIH 300M, 15M White, LIH	1860M, 60M, White, LIH 600M, 60M, Yellow, LIH	Red -	NIL	NIL

LRSV 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 NIL
3	TWY edge and centre line lighting	TWY A, B TWY edge blue omnidirectional lights LIL, 60M (15M) spacing TWY centre line green/green ; yellow/green lights, 15M (7.5M) spacing TWY D TWY edge blue omnidirectional lights LIL, 52M spacing
4	Secondary power supply/switch-over time	Secondary power supply to all lighting on the AD, Switch-over time 1 SEC.
5	Remarks	NIL

LRSV AD 2.16 HELICOPTER LANDING AREA

1	Coordinates 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

LRSV AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	SUCEAVA CTR A circle, radius 22 NM centered at 474111N 0262116E (ARP), limited by FIR boundary.
2	Vertical limits	SFC to FL95
3	Airspace classification	C
4	ATS unit call sign Language(s)	Suceava Tower English, Romanian
5	Transition altitude	3000 FT AMSL
6	Hours of applicability	As ATS
7	Remarks	NIL

**LRSV AD 2.18 ATS COMMUNICATION FACILITIES**

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
TWR	Suceava Tower	129.955 118.300 MHz ALTN	NIL	NIL	As ATS	Exempted 8.33 kHz State aircraft.
APP	Suceava Tower	121.500 MHz EMERG 118.300 MHz	NIL	NIL	As ATS	Procedural service

LRSV 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	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna (FT)	Remarks
1	2	3	4	5	6	7
DVOR/DME (6°E/2015)	SCV	112.300 MHz CH 70X	H24	474020.4N 0262139.0E	1300	Coverage 175NM (declared)
LOC 34 (6°E/2015) ILS CAT II	ISV	110.100 MHz	H24	474159.4N 0262054.6E		Front course angle 5.19°
GP 34		334.400 MHz	H24	474053.3N 0262118.2E		GP angle 3.0° ILS RDH 54 FT
DME 34	ISV	999.000 MHz CH 38X	H24	474053.4N 0262117.8E	1400	

LRSV AD 2.20 LOCAL AERODROME REGULATIONS**1 Airport regulations / Reglementari de aeroport****1.1 Procedures for acceptance**

- (1) Operations permitted only for aircraft with maximum code letter „D”.
- (2) Prior to flight schedule, operators are asked to check the availability of ground handling services and parking space.
- (3) The declared capacity of the airport is 200 passengers / hour which can determine delays for overlapping of the possible flights that land at the airport. Operators will take measures to program the flights to prevent these situations, otherwise the flights will be delayed.
- (4) Changes in regular flight schedule are subject to prior permission of Airport Administration.
- (5) Nominating LRSV as alternate airport shall be made only with Airport Administration permission.

1.2 Aircraft Ground Movement

- (1) Pilots are requested to use minimum power when ground maneuvering.
- (2) Backtrack of ACFT CAT C, D (ICAO Annex 14) is permitted only using RWY turning bays.

1 Reglementări de aeroport**1.1 Proceduri de admisibilitate**

- (1) Operațiuni permise pentru aeronave care au maxim litera de cod „D”.
- (2) Înainte de programarea zborului operatorul trebuie să verifice disponibilitatea locurilor de parcare și a serviciilor handling.
- (3) Capacitatea declarată a aeroportului este de 200 de pasageri / oră, ceea ce poate determina întârzieri pentru suprapunerea posibilelor zboruri care aterizează pe aeroport. Operatorii vor lua măsuri pentru a programa zborurile pentru a preveni aceste situații, în caz contrar zborurile vor întârzia.
- (4) Modificări în programele de zbor ale operatorilor se pot face doar cu acordul administrației aeroportului.
- (5) Desemnarea LRSV ca aeroport de rezervă se face doar cu acordul administrației aeroportului.

1.2 Miscarea la sol a aeronavei

- (1) Pe perioada rulării la sol, piloților li se cere să tureze motoarele aeronavei la putere minimă.
- (2) Backtrack pentru aeronavele de Cat C, D (ICAO Annex 14) folosind buzunarele de întoarcere ale RWY.

LRSV AD 2.21 NOISE ABATEMENT PROCEDURES**On Ground**

ATC will approve engine ground operation only at idle speed.

La sol

ATC va aproba folosirea la sol a motoarelor doar la relanti/idle power.

LRSV AD 2.22 FLIGHT PROCEDURES**1. LOW VISIBILITY PROCEDURES / PROCEDURI ÎN CONDIȚII DE VIZIBILITATE REDUSĂ****1.1 Description of facilities**

1.1.1 Runway 34 is equipped with ILS and is approved for CAT II operations (DH less than 60M, but not less than 30M; RVR not less than 300m).

1.1.2 The Runway is approved for LVTO on both directions, 16 and 34 respectively.

1.1 Descrierea facilităților

1.1.1 Pista 34 este echipată cu ILS și autorizată pentru desfășurarea operațiunilor CAT II (DH mai mică de 60 m dar nu mai mică de 30 m, și RVR nu mai mic de 300 m).

1.1.2 Pista este autorizată pentru LVTO pe ambele direcții respectiv 16 și 34.

LRTD AD 2.1 AERODROME LOCATION INDICATOR AND NAME**LRTD - TIMIȘOARA / Traian Vuia****LRTD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP co-ordinates and site at AD	454835N 0212016E Runway center.
2	Direction and distance from city	45°, 11 km from Timișoara.
3	Elevation/Reference temperature/Mean low temperature	348 FT / 31.2°C / -11.2°C
4	Geoid undulation at AD ELEV PSN	142 FT
5	MAG VAR/ Annual rate of change	5°E (2017) / 7.2°E
6	AD Administration, address, telephone, telefax, e-mail, AFS, website	S.N. Aeroportul Internațional Timișoara Traian Vuia S.A., Str. Aeroport Nr. 2, 307210 Ghiroda, România Call Center: + 40-(0)256-386089 Fax: + 40-(0)256-490705 Tel/Fax Dispecerat: + 40-(0)256-493123 e-mail: office@aerotim.ro AFS: LRTRRAYD SITA: TSRAP8X Website: www.aerotim.ro
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	For operational (OPS) requests, use e-mail dispatch@aerotim.ro (H24).

LRTD AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	H24
3	Health and sanitation	H24
4	AIS Briefing Office	H24, see GEN 3.1-5.
5	ATS Reporting Office (ARO)	H24, see ENR 1.10-2.
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	H24
12	Remarks	Notification, on requested services, shall be addressed at: Fax: +40-(0)256-493123 (H24) AFTN: LRTRRAYD SITA: TSRAP8X (H24) Lack of prior notification may cause delays in service delivery. Aircraft having ACN higher than 46 are subject to prior permission request, in accordance with AD 2.20 Local aerodrome regulation point 1.1.2.

LRTD AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	1 hi-loader of 7t, 1 hi-loader of 5t, 5 conveyor belts, 2 fork-lifts, 6 ramp tractors, 20 cargo carts, 12 dollies for ULDs, 4 GPU, 1 Airstarter unit, 1 cooling/heating equipment, 1 potable water vehicle, 2 lavatory service vehicles, 3 airport passenger buses, 2 equipments for towing/push-back (1 with tow-bar for: ATR 42/72; CRJ-70,90,100; EMB170-195; A319,320,321; B737 200-800 and 1 towbarless for: A319,320,321; B737 300-800, B757).
2	Fuel/Oil types	Kerosene Th type JET A1/NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	2 de-icing/anti-icing units with type I and type II fluids
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	Preliminary briefing, requests of operating permissions on aerodrome and handling shall be sent only at: Fax: +40-(0)256-493123 (H24) AFTN: LRTRRAYD SITA: TSRAP8X (H24) Any other way of contact may cause delays.

LRTD AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the city.
2	Restaurants	Restaurant on the AD.
3	Transportation	Buses, taxis, rent-a-car.
4	Medical facilities	Ambulance and first aid on the AD. Hospitals in the city,.
5	Bank and Post Office	ATM on the AD. Bank and Post Office in the city.
6	Tourist Office	In the city
7	Remarks	NIL

**LRTC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	TULCEA
2	Hours of service MET Office outside hours	As ATS
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)240-511420 Fax: +40-(0)240-511420
9	ATS units provided with information	TULCEA TWR
10	Additional information (limitation of service, etc.)	NIL

LRTC AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	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
				5	6	
34	347.53°	2060 x 45	61/F/C/W/T Asphalt	450314.96N 0284301.80E 450417.99N 0284242.13E GUND 105.0 FT	THR 137.7 FT TDZ 175.2 FT	
16	167.53°	2060 x 45	61/F/C/W/T Asphalt	450417.99N 0284242.13E 450312.83N 0284302.47E GUND 105 FT	THR 200 FT	
Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks	
7	8	9	10	11	12	
1.4% (517 M) 1.7% (544 M) 0.9% (306 M) 0.6% (693 M)	NIL	60 x 180	2180 x 300	NIL	RESA 228 M x 150 M Slope on first quarter or RWY 34 exceeding 0.8%.	
-0.6% (693 M) -0.9% (306 M) -1.7% (544 M) -1.4% (517 M)	NIL	285 x 180	2180 x 300	NIL	RESA 229 M x 150 M	

LRTC AD 2.13 DECLARED DISTANCES

RWY designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
34	2060	2120	2060	1993	NIL
16	2060	2345	2060	2060	NIL

LRTC 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	
34	ALS-II 900M, LIH	Green WBAR	PAPI Left/3° (48 FT)	White, 900M	1080M, 15M, White, LIH 600M, 15M, White/Red, LIH 313M, 15M, Red, LIH	1380M, 60M, White, LIH 613M, 60M, Yellow, LIH	Red -	NIL	RWY 34 edge red 67M can be seen only to approach 180° turn path lighting at THR 34
16	SALS 420M, LIH	Green WBAR	PAPI Left/3° (45 FT)	NIL	1153M, 15M, White, LIH 600M, 15M, White/Red, LIH 307M, 15M, Red, LIH	1453M, 60M, White, LIH 607M, 60M, Yellow, LIH	Red -	NIL	180° turn path lighting at THR 16

LRTC 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 WDI on TWR building.
3	TWY edge and centre line lighting	TWY edge blue omnidirectional lights LIL, 31M spacing TWY centre line green/green, yellow/green lights, 15M (7.5M) spacing.
4	Secondary power supply/switch-over time	Secondary power supply to all lighting on the AD; Switch-over time 1 SEC.
5	Remarks	NIL

LRTC 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

LRTC AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	TULCEA CTR 451745N 0284737E - 450000N 0290557E - 444958N 0283922E - 445424N 0282723E - 451644N 0282959E - FIR boundary - 451745N 0284737E
2	Vertical limits	SFC to FL65
3	Airspace classification	C
4	ATS unit call sign Language(s)	Tulcea Tower English, Romanian
5	Transition altitude	3000 FT AMSL
6	Hours of applicability	As ATS
7	Remarks	NIL

LRTC AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Channel/ Frequency	SATVOICE	Logon address	Hours of operation	Remarks
1	2	3	4	5	6	7
APP/TWR	Tulcea Tower	119.755 120.300 MHz ALTN 121.500 MHz EMERG	NIL	NIL	As ATS	Exempted 8.33 kHz State aircraft.