

<p>KINGDOM OF BAHRAIN</p> <p>Ministry of Transportation and Telecommunications</p>		 <p>مملكة البحرين وزارة المواصلات والاتصالات</p>
<p>BAHRAIN FIR</p> <p>Air Traffic Management Directorate</p> <p>Aeronautical Information Management (AIM)</p>		<p>Post: Aeronautical Information Management MTT / Civil Aviation Affairs P.O. Box 586 Manama Kingdom of Bahrain</p> <p>TEL: +973 17321181 / 17321182</p> <p>FAX: +973 17323876 / 17321025</p> <p>AFTN: OBBBYNYX</p> <p>E-MAIL: sdc@mtt.gov.bh</p> <p>URL: www.bahrainaims.com</p>
<p>AIP AIRAC AMDT 10/21</p>	<p>EFF Date 9 SEP 21</p>	

This AIRAC AIP AMDT 10/21 contains:

GEN 3.1
GEN 3.6
ENR 4.1
ENR 5.1
ENR 6
AD 2-OBBI

1.

DESTROY			INSERT		
GEN	3.1-1	18 JUN 2020	GEN	3.1-1	9 SEP 2021
	3.1-3	2 MAR 2017		3.1-3	9 SEP 2021
	3.1-5	2 MAR 2017		3.1-5	9 SEP 2021
	3.6-2	17 SEP 2015		3.6-2	9 SEP 2021
	3.6-3	17 SEP 2015		3.6-3	9 SEP 2021
ENR	4.1-1	22 APR 2021	ENR	4.1-1	9 SEP 2021
	5.1-2	6 DEC 2018		5.1-2	9 SEP 2021
	5.1-3	18 JUN 2020		5.1-3	9 SEP 2021
	5.1-4	22 APR 2021		5.1-4	9 SEP 2021
	6-6	22 APR 2021		6-6	9 SEP 2021
AD	2-OBBI-2	22 APR 2021	AD	2-OBBI-2	9 SEP 2021
	2-OBBI-3	22 APR 2021		2-OBBI-3	9 SEP 2021
	2-OBBI-6	18 JUN 2020		2-OBBI-6	9 SEP 2021
	2-OBBI-7	22 APR 2021		2-OBBI-7	9 SEP 2021
	2-OBBI-23	22 APR 2021		2-OBBI-23	9 SEP 2021
	2-OBBI-25	22 APR 2021		2-OBBI-25	9 SEP 2021
	2-OBBI-27	22 APR 2021		2-OBBI-27	9 SEP 2021
	2-OBBI-37	22 APR 2021		2-OBBI-37	9 SEP 2021
	2-OBBI-43	22 APR 2021		2-OBBI-43	9 SEP 2021
	2-OBBI-53	22 APR 2021		2-OBBI-53	9 SEP 2021

DESTROY		INSERT	
2-OBBI-59	22 APR 2021	2-OBBI-59	9 SEP 2021
2-OBBI-85	22 APR 2021	2-OBBI-85	9 SEP 2021
2-OBBI-101	22 APR 2021	2-OBBI-101	9 SEP 2021
2-OBBI-103	22 APR 2021	2-OBBI-103	9 SEP 2021

2. Hand amendments

NIL

3. Record entry of AIRAC AMDT on the page GEN 0.2-1.

4. The following publications have been incorporated in this AIRAC AMDT:

AIP SUP	NIL
AIC	NIL
NOTAM	A0131/21, A0228/21, A0229/21, A0230/21, A0231/21, A0232/21, A0259/21, A0311/21

- END -

GEN 3. SERVICES**GEN 3.1 AERONAUTICAL INFORMATION MANAGEMENT****3.1.1 RESPONSIBLE SERVICE**

3.1.1.1 The Aeronautical Information Management which forms part of the Civil Aviation Affairs of the Kingdom of Bahrain, ensures the flow of information necessary for the safety, regularity and efficiency of international air navigation within the area of its responsibility indicated under **GEN 3.1.1.2** below. It consists of AIM Headquarters, International NOTAM Office (NOF) and AIM units established at aerodromes as listed under **GEN 3.1.5** below.

3.1.1.2 AIM Headquarters**AERONAUTICAL INFORMATION MANAGEMENT**

P.O. Box 586
Kingdom of Bahrain
TEL: +973 17321180 / 1 / 2
Telefax: +973 17323876
AFS: OB BBYNYX
e-mail: sdc@mtt.gov.bh
Http: <https://aim.mtt.gov.bh>

NOTAM: OBZZNAXX

SNOWTAM: OBZZSNXX

3.1.2 AREA OF RESPONSIBILITY OF AIM

The Aeronautical Information Management is responsible for the collection and dissemination of information for the BAHRAIN FIR / BAHRAIN UIR.

3.1.3 AERONAUTICAL PUBLICATIONS

3.1.3.1 The aeronautical information is provided in the form of the Integrated Aeronautical Information Package consisting of the following elements:

- An electronic Aeronautical Information Publication (electronic AIP);
- An electronic Amendment Service to the electronic AIP (AIP AMDT);
- An electronic Supplement Service to the electronic AIP (AIP SUP);
- NOTAM, and Pre - Flight Information Bulletins (PIB);
- An electronic Aeronautical Information Circulars (AIC) Service; and
- Check lists and summaries

NOTAM and the related monthly checklists are issued via the Aeronautical Fixed Service (AFS) while PIB are made available at aerodrome AIM units. All other elements of the package are published on the internet.

3.1.3.2 Electronic Aeronautical Information Publication (electronic AIP)

The electronic AIP is the basic aviation document intended primarily to satisfy international requirements for the exchange of permanent aeronautical information and long duration temporary changes essential for air navigation.

The electronic AIP BAHRAIN FIR is available in HTML format. The HTML version and a PDF version derived therefrom is published on the internet, and can be found at <https://aim.mtt.gov.bh> The HTML version is the primary method of publication of the electronic AIP BAHRAIN FIR.

Electronic AIP Bahrain FIR

This electronic AIP, issued in English only, is the basic aeronautical information document for the BAHRAIN FIR / BAHRAIN UIR, for use in international and domestic operations whether the flight is a commercial or a private one and contains lasting information essential to air navigation.

3.1.3.3 Amendment service to the electronic AIP (AIP AMDT)

Amendments to the electronic AIP (AIP AMDT) are published on the internet. Two types of electronic AIP AMDT are produced:

1. Electronic Regular AIP Amendments (AIP AMDT) are issued in accordance with the established regular interval (ref. **GEN 0.1**), and incorporate permanent changes into the electronic AIP at the indicated publication date;
2. Electronic AIRAC AIP Amendments (AIRAC AIP AMDT) are issued in accordance with the AIRAC system, identified by the acronym AIRAC, and incorporate operationally significant permanent changes into the electronic AIP at the indicated AIRAC effective date.

A brief description of the subjects affected by the amendment is given on the electronic AIP Amendment cover sheet.

Each electronic AIP amendment cover sheet includes references to the serial number of those elements, if any, of the Integrated Aeronautical Information Package which have been incorporated in the electronic AIP by the amendment and are consequently cancelled.

Each AIP AMDT and each AIRAC AIP AMDT will be allocated separate two digit serial numbers which are consecutive in line with the AIRAC cycle. This will be followed by a two digit number to denote the year of issue or validity, e.g. AIP AMDT 01 / 11; AIRAC AIP AMDT 01 / 11. This new system will supersede the old system (which used a continuous sequence of numbers).

For further details refer to the electronic AIP BAHRAIN FIR version on the internet and its Help section.

3.1.3.4 **Electronic Supplement Service to the electronic AIP (AIP SUP)**

Temporary changes of long duration (three months and longer) and information of short duration which consists of extensive text and / or graphics, supplementing the permanent information contained in the electronic AIP are published as electronic AIP Supplements (AIP SUP). Operationally significant temporary changes to the electronic AIP are published in accordance with the AIRAC system and its established effective dates and are identified clearly by the acronym AIRAC.

Electronic AIP Supplements are separated by information subject (General - GEN, En-route - ENR and Aerodromes - AD). In a similar manner to AIP AMDT, each Supplement (regular or AIRAC) is allocated a serial number which is consecutive and based on the calendar year, i. e. AIRAC AIP SUP 01 / 11.

Electronic AIP Supplements are kept in the AIP as long as all or some of their contents remain valid. The period of validity of information contained in the electronic AIP Supplement will normally be given in the supplement itself. Alternatively, NOTAM may be used to indicate changes to the period of validity or cancellation of the supplement.

The checklist of electronic AIP Supplements currently in force is issued additionally by the medium of the monthly printed plain language summary of NOTAM in force.

Electronic AIP Supplements are placed on the desktop of the electronic AIP as a separate subject item under the electronic AIP Tabulator "SUP". For further details refer to the electronic AIP BAHRAIN FIR version on the internet and its Help section.

3.1.3.5 **NOTAM and Pre - flight Information Bulletins (PIB)**

NOTAM contain the information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential for personnel concerned with flight operations. The text of each NOTAM contains the information in the order shown in the ICAO NOTAM Format and is composed of the significations / uniform abbreviated phraseology assigned to the ICAO NOTAM Code complemented by ICAO abbreviations, indicators, designators, call signs, frequencies, figures and plain language. NOTAM are originated and issued for BAHRAIN FIR / BAHRAIN UIR and are distributed in one series which is identified by the letter A.

Series A

All NOTAM information for domestic and international use pertinent to flight within the BAHRAIN FIR / BAHRAIN UIR.

NOTAM S (SNOWTAM) contains information concerning snow, slush, ice or standing water associated with snow, slush and ice in the movement areas. The local climate precludes the issue of NOTAM S in the BAHRAIN FIR / BAHRAIN UIR.

Pre - flight Information Bulletins (PIB), which contain a recapitulation of current NOTAM and other information of urgent character to the operator / flight crews, are available at the Aerodrome AIS Units. The extent of the information contained in the PIB is indicated in subsection 5.

3.1.3.6 **Electronic Aeronautical Information Circulars (AIC)**

The electronic Aeronautical Information Circulars (AIC) contain information of long - term forecast of any major change in legislation, regulations procedures or facilities; purely explanatory or advisory nature liable to affect flight safety; and information or notification of an explanatory or advisory nature concerning technical, legislative or purely administrative matters. AICs are divided in accordance with subjects and their affects and are issued in one series (A).

Each electronic AIC is numbered consecutively on a calendar year basis. The year, indicated by two digits, is a part of serial number of the AIC, e.g. AIC 1 / 11. A checklist of AIC currently in force is issued as an AIC once a year.

Electronic AIC are placed on the desktop of the electronic AIP accordingly as a separate item under the eAIP Tabulator "AIC". For further details refer to the electronic AIP BAHRAIN FIR version on the internet and its Help section.

3.1.3.7 **Checklist of NOTAMS**

A checklist of NOTAM is issued monthly via AFS. This checklist contains all valid NOTAMS, latest AIP AMDT, latest AIP SUP and AIC.

3.1.3.8 **Summary of NOTAM**

Summary of NOTAM is published on the official website. It contains a plain language (in English) presentation of the valid NOTAM and information about the latest AIRAC AIP AMDT, AIC issued and checklist of AIP SUP.

3.1.3.9 Publication Sale

All publications can be obtained from the following official website in both HTML and PDF versions and is free of charge to all users.
<https://aim.mtt.gov.bh>

3.1.4 THE AIRAC SYSTEM

3.1.4.1 In order to control and regulate the flow of operationally significant changes requiring amendments to charts, route - manuals etc., such changes, whenever possible, will be issued on predetermined dates according to the AIRAC SYSTEM.

Whenever possible this type of information will be published as an AIRAC AIP AMDT / SUP. If an AIRAC AMDT / SUP cannot be produced due to lack of time on a predetermined date, a NIL AIRAC notification NOTAM will be issued one cycle before the effective date of the AIRAC concern.

3.1.4.2 The table overleaf indicates AIRAC effective dates for the coming years. AIRAC information will be issued so that the information will be received by user not later than 28 days, and major changes not later than 56 days, before the effective date.

At AIRAC effective dates, a Trigger NOTAM will be issued giving a brief description of the contents, effective date and cross reference number of the AIRAC AIP AMDT or AIRAC AIP SUP that will become effective on that particular date.

Schedule of AIRAC effective dates

	2014	2015	2016	2017	2018	2019
1	09-Jan	08-Jan	07-Jan	05-Jan	04-Jan	03-Jan
2	06-Feb	05-Feb	04-Feb	02-Feb	01-Feb	31-Jan
3	06-Mar	05-Mar	04-Mar	02-Mar	01-Mar	28-Feb
4	03-Apr	02-Apr	31-Mar	30-Mar	29-Mar	28-Mar
5	01-May	30-Apr	28-Apr	27-Apr	26-Apr	25-Apr
6	29-May	28-May	26-May	25-May	24-May	23-May
7	26-Jun	25-Jun	23-Jun	22-Jun	21-Jun	20-Jun
8	24-Jul	23-Jul	21-Jul	20-Jul	19-Jul	18-Jul
9	21-Aug	20-Aug	18-Aug	17-Aug	16-Aug	15-Aug
10	18-Sep	17-Sep	15-Sep	14-Sep	13-Sep	12-Sep
11	16-Oct	15-Oct	13-Oct	12-Oct	11-Oct	11-Oct
12	13-Nov	12-Nov	10-Nov	09-Nov	08-Nov	07-Nov
13	11-Dec	10-Dec	08-Dec	07-Dec	06-Dec	05-Dec

If no information was submitted for publication at the AIRAC date, a NIL notification will be issued by NOTAM not later than one AIRAC cycle before the AIRAC effective date concerned.

3.1.5 PRE - FLIGHT INFORMATION SERVICE AT AERODROMES / HELIPORTS

3.1.5.1 NOTAM ARE ADDRESSED TO AND RECEIVED FROM THE FOLLOWING NOTAM OFFICES:

Addis Ababa	Brussels	Greenland	Laos	Paris	Tokyo
Algier	Bucharest	Harare	Lilongwe	Prague	Toronto
Amman	Budapest	Helsinki	Lisbon	Riga	Tripoli
Amsterdam	Cairo	Ho Chi Minh	London	Rome	Tunis
Ankara	Casablanca	Hong Kong	Luqa	Sanaa	U.A.E.
Athens	Colombo	Iceland	Lusaka	Seeb	Vienna
Auckland	Copenhagen	Jakarta	Macau	Seoul	Vilnius
Baghdad	Damascus	Jeddah	Madras	Seychelles	Warsaw

Bangkok	Dar - es - Salaam	Johannesburg	Madrid	Shannon	Windhoek
Beijing	Dhaka	Kabul	Male	Singapore	Yangon
Beirut	Dublin	Karachi	Manila	Slovakia	Zurich
Belgrade	Entebbe	Kathmandu	Maputo	Slovenia	
Bombay	Frankfurt	Khartoum	Melbourne	Sofia	
Brisbane	Gaborone	Kuala Lumpur	Moskow	Stockholm	
Brunei		Kuwait	Nairobi	Sydney	
			Nicosia	Taipei	
				Tehran	

3.1.5.2 NOTAM are additionally received from:

Kolkata	New Delhi	Tallinn
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3.1.5.3 NOTAM are additionally addressed to:

Dallas Fort Worth	Kota Kinabalu	Luxembourg	Moscow
Ottawa	Shanghai	Washington	Vientiane

3.1.5.4 NOTAM are received from the following offices in the USA

ARTCC Boston	Corpus Christie	New York JFK
ARTCC Houston	Dallas Fort Worth	Newark
ARTCC Miami	Dayton	Newburgh
ARTCC New York	Detroit	Norfolk
ARTCC Washington	Greensboro	Philadelphia
Atlanta	Houston Intercontinental	Pittsburgh
Baltimore	Indianapolis	Raleigh / Durham
Bangor	Knoxville	San Antonio
Birmingham	Memphis	St Louis Lambert
Boston	Minneapolis	Tampa
Chicago O'Hare	Nashville	Washington
Cincinnati	New Orleans	
Cleveland		

3.1.5.5 A self - briefing pre - flight information service is available at BAHRAIN INTERNATIONAL airport with the coverage indicated below:

3.1.5.5.1 BAHRAIN: Complete coverage as for BAHRAIN INTERNATIONAL NOTAM OFFICE. See GEN 3.1.5.1 to GEN 3.1.5.4.

3.1.5.6 **Pre - flight Information Bulletins (PFIBs)**

3.1.5.6.1 In addition to the self - briefing pre - flight information service, a comprehensive tailored pre - flight briefing is available to scheduled operators from BAHRAIN INTERNATIONAL airport. Application for service should be made to the Airport AIM / MET Briefing Office:

AIM / MET Briefing
P.O. Box 586

Kingdom of Bahrain
TEL: +973 17321181 / +973 17321182 and +973 17321178
Telefax: +973 17323876

3.1.5.6.2 Bahrain Integrated Aeronautical Information Package is available on: <https://aim.mtt.gov.bh>

3.1.5.7 Accuracy of Information

3.1.5.7.1 The AIP BAHRAIN FIR and associated NOTAM are compiled from the variety of sources. Except for Bahrain, all information is acquired from independent states and from commercial sources. The greatest care is exercised in the assembly and compilation of information for the AIP BAHRAIN FIR and associated NOTAM and they are considered to be as reliable as possible at the time of issue. Civil Affairs will not be held responsible, however, for the accuracy of the contents of the AIP BAHRAIN FIR or NOTAM or for any omissions therefrom, neither will Civil Aviation Affairs be responsible for the adequacy or receipt of NOTAM or AIP amendments.

3.1.5.7.2 Any errors or omissions discovered should be notified without delay to the AIM Department or to Civil Aviation Affairs.

3.1.5.7.3 To further enhance the quality of the services provided by AIM, Bahrain has implemented ISO 9001 : 2008 to AIM, should any comments or suggestions arise, please do not hesitate to mail or email us at the following address:

AERONAUTICAL INFORMATION MANAGEMENT
P.O. Box 586
Kingdom of Bahrain
e-mail: sdcc@mtt.gov.bh
Http: <https://aim.mtt.gov.bh>

3.1.6 ELECTRONIC TERRAIN AND OBSTACLE DATA (ETOD)

3.1.6.1 Air Navigation Obstacles and Electronic Terrain Data Sets of Bahrain may be obtained from:

AERONAUTICAL INFORMATION MANAGEMENT - Air Navigation
Bahrain Civil Aviation Affairs
P.O. Box 586
Kingdom of Bahrain
TEL: +973 17321180 / +973 17321181
Telefax: +973 17329977 / +973 17323876
e-mail: etod@mtt.gov.bh
sdcc@mtt.gov.bh

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GEN 3.6 SEARCH AND RESCUE**3.6.1 Responsible Service**

The Search and Rescue Services in the BAHRAIN FIR / BAHRAIN UIR are organized in accordance with the International Standards and Recommended Practices of ICAO, and overall responsibility for coordinating the necessary facilities rests with the Undersecretary for Civil Aviation, Bahrain Civil Aviation Affairs, Kingdom of Bahrain:

Bahrain Rescue Coordination Center (RCC)
P.O. Box 586
Kingdom of Bahrain
TEL: +973 17329969 / +973 17329959
Telefax:+973 17329949
AFS: OBBISARX

Note 1: New AFTN address OBBINEMX is established for the purpose of Nuclear Emergency Message (NEM).

Note 2: There is a direct speech circuits between the RCC and all related ATC Units.

Note 3: Out of the normal working hours from 0400 to 1100 to call +973 17321081 and FAX +973 17321029

Applicable ICAO Documents:

Annex 12 Search and Rescue
Annex 13 Aircraft Accident Investigation
Doc 7030 Regional Supplementary Procedures

Differences:

NIL

3.6.2 Area of Responsibility

The Search and Rescue Region encompasses the BAHRAIN FIR / BAHRAIN UIR, excluding the Qatar land and territorial waters.

3.6.3 Types of Service**3.6.3.1 Coastguard Search and Rescue Unit**

Facilities Available: Marine Craft

Ministry of Interior CGD
P.O. Box 13
Kingdom of Bahrain
TEL: +973 17700000
Telefax:+973 17700728
Telex: 7707 CGD BN

Craft Available	Activation Time	Availability
2 RB (20 M)	Immediate	H 24
4 RB (20 M)	Immediate	H 24
4 Open oat (31 FT)	Immediate	H 24

3.6.3.2 Police Flying Wing

Facilities Available: Light Helicopters

Ministry of Interior
Police Flying Wing
P.O. Box 13
Kingdom of Bahrain
TEL: +973 17240000 / +973 17254736
Telefax:+973 17253439 BDF Helicopter Wing

Aircraft Available	Activation Time	Availability
2 HEL - L	30 Mins. BTN 0500 & 1215 1 HR BTN 1215 & 0500 1 HR during weekend and public holidays	SR - SS

3.6.3.3 Bahrain Defence Force Helicopter Wing/ Mobile Command and Control Centre - (Air and maritime surveillance)

POST:

BDF Helicopter Wing
P.O. Box 245
Kingdom of Bahrain
TEL: +973 17894474
Telefax: +973 17620926

Facilities Available:

Aircraft Available	Activation Time	Availability
(10) Helicopters for Search and Rescue (SAR) missions	H24/7	SR - SS
(3) Helicopters for Medical Evacuation (MEDVAC) missions with qualified medical crew	H24/7	SR - SS
(64) Boats for Search and Rescue (SAR) missions	H24/7	SR - SS
(14) Ships for Surveillance and Reconnaissance missions	H24/7	SR - SS
(535) Qualified and trained Rescue Divers / Medical crews	H24/7	SR - SS
(20) Jet ski for Search and Rescue (SAR) missions (shallow water purposes)	H24/7	SR - SS
(10) Military Officers for Humanitarian support missions	H24/7	SR - SS

3.6.3.4 COSPAS / SARSAT

Area Control Centre ACC is located at the Civil Aviation Affairs / Air Navigation Directorate to detect and locate the position of distress signals permitted on 121.500 MHZ and 406.000 MHZ and received by the COSPAS / SARSAT satellite system. Distress signals received at the ACC will be notified to the appropriate Rescue Coordination Centre (RCC) in order to initiate immediate search and rescue coordination.

3.6.4 SAR agreements

To be developed

3.6.5 Conditions of availability

Assistance will be provided to aircraft in distress and to survivors of aircraft accidents. In addition to the facilities outlined in **GEN 3.6.3** various elements of Police organizations, the Merchant Marine and the Armed Forces are available to the Search and Rescue Organization.

Requests for entry of aircraft, equipment and personnel from other States to engage in the search for aircraft in distress or to rescue survivors of aircraft accidents should be transmitted to:

Undersecretary for Civil Aviation
P.O. Box 586
Kingdom of Bahrain
TEL: +973 17321081 / +973 17320487
Telefax: +973 17329949
AFS: OBBISARX

Unwarrant Operations

Civil Aviation Affairs, as the authority responsible for the coordination of rescue services for the Bahrain SRR, reserves the right to take steps to recover expenditure, incurrent either by aerodrome services or other participants involved in search and rescue operations, whenever circumstances show that the operation was unwarranted.

3.6.6 Procedures and signals used

Owing to the nature terrain, aircraft are advised to maintain a good look - out at all times whilst operating within the BAHRAIN FIR / BAHRAIN UIR and are requested to inform the Bahrain FIC immediately they see anything which might be relate to an aircraft in distress.

Procedures for pilots - in - command observing an accident or intercepting a distress call are in accordance with Annex 12.

Communications

Transmission and reception of distress messages within the Bahrain Search and Rescue Region are handled in accordance with ICAO Annex 10, Volume II, Chapter 5, paragraph 5.3.

For communications during search and rescue operations, the codes and abbreviations published in ICAO Abbreviations and Codes (Doc 8400) are used.

The frequency 121.500 MHZ is guarded continuously during the hours of service at an area control centers and flight information centers. It is also monitored at BAHRAIN INTERNATIONAL Approach Control Office.

Search and rescue signals

The search and rescue signals to be used are those prescribed in Annex 12, Chapter 5, paragraph 5.10.

Ground / air visual signal codes for use by survivors

NO.	Message	Code symbol
1	Require assistance	V
2	Require medical assistance	X
3	No or negative	N
4	Yes or affirmative	Y
5	Proceeding in this direction	->
Instructions for use: 1. Make signals not less than 8 FT (2.5 M). 2. Take care to lay out signals exactly as shown. 3. Provide as much color contrast as possible between signals and background. 4. Make every effort to attract attention by other means such as radio, flares, smoke, reflected light.		

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ENR 4. RADIO NAVIGATION AIDS/SYSTEMS

ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE

Name of station (VAR) <i>VOR: Declination</i>	ID	FREQ (CH)	Hours of operation	Coordinates	ELEV DME Antenna	Remarks
1	2	3	4	5	6	7
BAHRAIN DVOR/DME (2.49° E)	BHR	111.80MHZ (CH 55X)		261530.00N 0503919.18E	32.83 FTEGM_96	
DOHA/HAMAD INTL DVOR/DME (2.6°E)	DOH	114.4MHZ (CH 91X)		251459.66N 0513634.80E	39.343 FTEGM_96	

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ENR 5. NAVIGATION WARNINGS**ENR 5.1 PROHIBITED, RESTRICTED AND DANGER AREAS****5.1.1 CLASSIFICATION**

5.1.1.1 All airspace in which a potential hazard to aircraft operations may exist and all areas over which the operation of civil aircraft may, for one reason or another, be restricted either temporarily or permanently, are classified according to the following three types of area as defined by ICAO.

5.1.1.1.1 PROHIBITED AREA

An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited. This term is used only when the flight of civil aircraft within the designated airspace is not permitted at any time under any circumstances.

5.1.1.1.2 RESTRICTED AREA

An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions. This term is used whenever the flight of civil aircraft within the designated airspace is not absolutely prohibited but may be made only if specified conditions are complied with. Thus, prohibition of flight except at certain specified times leads to the designation of the airspace as a "Restricted Area", as would prohibition except in certain meteorological conditions. Similarly, prohibition of flight unless special permission has been obtained leads to the designation of a "Restriction Area". However, conditions of flight imposed as a result of application of the Rules of the Air or air traffic services practices or procedures, (For example, compliance with minimum safe heights or with rules stemming from the establishment of controlled airspace) do not constitute conditions calling for designation of a "Restricted Area".

5.1.1.1.3 DANGER AREA

An airspace of defined dimensions within which activities dangerous to the flight of aircraft may exist at specified times. This term is used only when the potential danger to aircraft has not led to the designation of the airspace as "Restricted" or "Prohibited". The effect of the creation of the Danger Area is to caution operators or pilots of aircraft that it is necessary for them to assess the dangers in relation to their responsibility for the safety of their aircraft.

5.1.2 GENERAL

5.1.2.1 The TYPE of area is indicated by the letters:

"D" for Danger - followed by number 1 to 39

"P" for Prohibited - followed by number 40 to 49

"R" for Restricted - followed by number 50 and above

5.1.2.2 Each Area is described in a tabulation which indicates:

Its lateral and vertical limits

The type of restriction or hazard involved

The time at which the area is active, and

Any other pertinent information

5.1.2.3 The positions of these Areas are also shown on the Airspace Charts, see **ENR 6**.

5.1.2.4 Altitudes are given in feet.

Prohibited , Restricted and Danger areas:

Identification, name and lateral limits	Upper limit Lower limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
PROHIBITED AREAS		
OBP42 BAHRAIN 260936.00N 0503036.00E 260936.00N 0503342.00E 260648.00N 0503342.00E 260648.00N 0503200.00E 260548.00N 0503036.00E	UNL SFC	H24
OTP43 QATAR 255600.00N 0510000.00E 255600.00N 0512000.00E 254000.00N 0512000.00E 254000.00N 0510000.00E	15000 FT SFC	H24
OTP44 QATAR / WUSAYL A circle of radius 1 NM centred on 252700.00N 0513230.00E	1500 FT SFC	H24
OTP45 QATAR A circle of radius 1 NM centred on 251728.00N 0513143.00E	1500 FT SFC	H24
OTP46 QATAR / RAYYAN A circle of radius 1 NM centred on 251700.00N 0512800.00E	1500 FT SFC	H24 Exemptions granted only by Commander - in - Chief, Public Security.
OTP47 QATAR A circle of radius 1.5 NM centred on 251747.00N 0512308.00E	5000 FT SFC	H24
RESTRICTED AREAS		
OTR51 QATAR / AL GHARIYEH A circle of radius 5 NM centred on 260431.00N 0512040.00E	3000 FT SFC	HJ PPR from GHQ Qatar. Light Aircraft Flying
OTR52 QATAR Area encloses Qatar territorial land and water boundaries.	UNL SFC	H24 Controlling Authority State of Qatar Military flying activities. Restriction does not apply for the flights approved by Qatar Civil Aviation Authority (QCAA) and for the flights on all ATS routes listed in ENR 3.
OTR53 QATAR 260800.00N 0511200.00E 262000.00N 0512100.00E 260800.00N 0514100.00E 255500.00N 0513500.00E	3000 FT SFC	H24 Controlling Authority State of Qatar Military exercise area
OTR54 QATAR 245400.00N 0512940.00E 245140.00N 0512940.00E 245140.00N 0512720.00E 245400.00N 0512720.00E	1500 FT SFC	H24 Piloted and remotely piloted ACFT activities. Contacting FREQ 135.375 MHz to be used for ACFT Operating within the Area .

Identification, name and lateral limits	Upper limit Lower limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
OTR55 RAS LAFFAN A circle of radius 4 NM centred on 255403.00N 0513405.00E	<u>3000 FT</u> SFC	H24 Aircraft intending to fly below ALT 3000 FT to obtain prior permission from RAS LAFFAN RLC Head of Security: TEL +974 44733447 FAX +974 44733429 Industrial area
OTR56 QATAR A circle of radius 5 NM centred on 250533.93N 0511933.08E	<u>5000 FT</u> SFC	H24
OBR57 Area encloses entire Bahrain Island contained within the following coordinates:- 261523.00N 0502608.00E 261523.00N 0503446.00E 260957.00N 0504032.00E 255000.00N 0503800.00E 254959.00N 0503639.00E 254553.00N 0503416.00E 255001.00N 0503153.00E 255000.00N 0503100.00E 255715.00N 0502605.00E	<u>UNL</u> SFC	H24. Except on instructions from Bahrain ATC
OTR58 QATAR A circle 1.5 NM centred on 251200.00N 0512430.00E	<u>3000 FT</u> SFC	H24
OTR59 UMM SAID FERTILIZER PLANT A circle of 3NM radius centred on 245400.00N 0513400.00E	<u>3000FT</u> SFC	H24
OTR60 QATAR A circle of radius 500 M centered on 254553.00N 0512253.00E	<u>1000 FT</u> SFC	H24 Remote Control Aircraft
OTR61 UMM SAID MILITARY TRAINING AREA A circle of radius 3 NM centered on 245900.00N 0513000.00E	<u>3000 FT AGL</u> SFC	H24 Helicopter Training Flights Area
OTR62 UMM AL-SHOKHOT A circles of radius 3NM centred on 254204.25N 0512127.72E	<u>13000FT</u> SFC	HJ All ACFT intending to operate in the area shall obtain permission from Qatar Air Sports Committee.
OBR66 BAHRAIN 260457.00N 0503655.00E 255806.00N 0504838.00E 253934.00N 0504955.00E 253445.00N 0504543.00E 253524.00N 0503241.00E 255353.00N 0501821.00E	<u>UNL</u> SFC	Military Exercise Area. Controlled and activated by Bahrain Defense Force
DANGER AREAS OTD1 QATAR / ALQALAEEL 243600.00N 0505500.00E 245400.00N 0505500.00E 245400.00N 0510400.00E 243600.00N 0510400.00E	<u>10000 FT</u> SFC	H24 Artillery, Heavy Machine Gun, Air Defense Weapons, Ground to Air

Identification, name and lateral limits	Upper limit Lower limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
1	2	3
OTD2 QATAR 243606.00N 0505507.00E 242949.00N 0510408.00E 242950.00N 0511128.00E 243556.00N 0511217.00E	20000 FT SFC	H24 Air Defense Weapons, Ground to Air.
OBD8 BAHRAIN 271100.00N 0504900.00E 270400.00N 0505618.00E 265500.00N 0511000.00E 265424.00N 0511148.00E 263512.00N 0503954.00E 264424.00N 0502906.00E	FL 150 4500 FT	ACTIVITY WILL BE NOTIFIED BY NOTAM. MILITARY JET TRAINING.
OTD17 QATAR 252550.00N 0504500.00E 252500.00N 0503700.00E 250700.00N 0504000.00E 244500.00N 0504900.00E 244550.00N 0505140.00E 250700.00N 0504600.00E	20000 FT SFC	Military jet training; Active daily between 0300 - 1900 UTC except FRI AND SAT
OTD26 QATAR / BIR ZIRKIT A circle 5 NM centred on 253000.00N 0505200.00E	3500 FT SFC	H24 Gun Firing.
OTD28 ALASHAT 245900.00N 0521600.00E 250030.00N 0521036.00E 245724.00N 0515124.00E 245624.00N 0515000.00E 244736.00N 0515000.00E 245230.00N 0521424.00E 245348.00N 0521600.00E	10000 FT SFC	Activity as notified by NOTAM Air to Air / Surface to Air Firing
OTD29 QATAR 250830.00N 0512200.00E 250930.00N 0512330.00E 251100.00N 0512200.00E 251030.00N 0512030.00E	500 FT SFC	HJ Ground to Ground Gun Firing
EMIRATES RESTRICTED AREAS		
OMR54 SHAHEEN 244600N 0523000E 244600N 0523800E 243600N 0531800E 243100N 0533830E 242800N 0535500E 242424N 0540828E 241805N 0542246E 241930N 0543100E 240000N 0550000E 234730N 0552312E 223730N 0550748E 225600N 0523500E 240800N 0513500E 244000N 0513500E 244830N 0521540E	UNL SFC	H24 Controlled by UAE Air Force. Military Jet Training Area.

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AD 2. AERODROMES

OBBI AD 2.1 AERODROME LOCATION INDICATOR AND NAME

OBBI - BAHRAIN INTERNATIONAL

OBBI AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	261615N 0503801E Mid - point of RWY on CL
2	Direction and distance from (city)	3.3 NM NE of Manama
3	Elevation/Reference temperature	8 FT / 38° C
4	Geoid undulation at AD ELEV PSN	-83.18 FT
5	MAG VAR/Annual change	2.49° E (2020) / 0°3' per year
6	AD operator, address, telephone, telefax, e-mail address, AFS and website address	Undersecretary for Civil Aviation P.O. Box 586 Kingdom of Bahrain TEL: +973 17321100 Telefax:+973 17339060 AFS: OBBIYAYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	

OBBI AD 2.3 OPERATIONAL HOURS

1	AD Operator	SUN - THU 04:00 - 11:15
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	NIL
12	Remarks	NIL

OBBI AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	BAHRAIN AIRPORT SERVICES
2	Fuel/oil types	Fuel: AVGAS 100 LL by prior arrangement with BAFCO (Bahrain Aviation Fuelling Company) TEL: +973 17329440 FAX: +973 17910925 Jet A1 available to contract customers or on cash basis only Oil: Mobil oil Jet 2
3	Fuelling facilities/capacity	Jet A1 Bays C1 - C5 , E1 - E4 and 11 - 22; hydrant Bays 1 - 6 , 51 - 58, 61 - 63 and 71 - 75; Bowser AVGAS - Bowser only
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	Gulf Air

7	Remarks	1. Handling Services available H24 from Bahrain Airport Services (BAS) 2. Private / Business Aircraft shall carry a tow bar compliant to its type of aircraft
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OBBI AD 2.5 PASSENGER FACILITIES

1	Hotels	In Manama and at Airport
2	Restaurants	At Airport
3	Transportation	Taxis and courtesy coaches to Hotels
4	Medical facilities	First aid; Ambulance; Hospitals in Manama
5	Bank and Post Office	At airport; At airport
6	Tourist Office	At airport
7	Remarks	NIL

OBBI AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 10
2	Rescue equipment	1 rescue boat available from airport and 4 from coastguard
3	Capability for removal of disabled aircraft	Limited
4	Remarks	Trained personal: 18 per shift; Fire vehicles: 3 vehicles, 2 with 13000 L of capacity each, 1 with 12000 L of capacity

OBBI AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

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

1	Apron designation, surface, strength and area	<p>MAIN A: Concrete, PCN 114 / R / C / W / T</p> <p>MAIN APRON B (STAND 14 TO 22): Concrete, PCN 86 / R / B / W / T (50,000 m2)</p> <p>MIDDLE APRON (STAND 1 TO 6): Concrete, PCN 104 / R / B / W / T (18,000 m2)</p> <p>EASTERN APRON (STAND 20 TO 28): Concrete, PCN 120 / R / B / W / T (70,000 m2)</p> <p>EASTERN EXECUTIVE (STAND 81 TO 88): Asphalt, PCN 22 / F / B / X / T (16,000 m2)</p> <p>WESTERN A (STAND 61 TO 63): Concrete, PCN 120 / R / C / W / T (13,000 m2)</p> <p>WESTERN B (STAND 50 TO 58): Concrete, PCN 82 / R / C / W / T (93,000 m2)</p> <p>EXECUTIVE APRON (STAND E1 TO E4): Concrete, PCN 120 / R / B / W / T (18,000 m2)</p> <p>CARGO APRON (STAND C1 TO C5): Concrete, PCN 120 / R / B / W / T (37,000 m2)</p> <p>NORTHERN APRON (STAND 70 TO 75): Asphalt, PCN 105 / F / A / W / T (45,500 m2)</p> <p>MENA APRON : Concrete, PCN 120 / R / D / W / T (10,000 m2)</p>
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2	Taxiway designation, width, surface, strength and shoulder width (m)	<p>TWY A1: 28 M, Asphalt, PCN 120 / F / A / W / T 17.50 West - 17.50 East</p> <p>TWY A2: 25.5 M, Asphalt, PCN 114 / F / A / W / T 17.50 West - 17.50 East</p> <p>TWY A3: 30 M, Asphalt, PCN 69 / F / A / W / T 15.00 West - 15.50 East</p> <p>TWY A4: 31.5 M, Asphalt, PCN 65 / F / A / W / T 17.50 West - 17.50 East</p> <p>TWY A5: 30 M, Asphalt, PCN 120 / F / A / W / T 15.00 West - 16.00 East</p> <p>TWY A6: 23 M, Asphalt, PCN 107 / F / A / W / T 15.00 West - 15.00 East</p> <p>TWY A7: 22 M, Asphalt, PCN 72 / F / A / W / T - 14.00 West - 17.00 East</p> <p>TWY A8: 30 M, Asphalt, PCN 120 / F / A / W / T 17.50 West - 17.50 East</p> <p>TWY A9: 29 M, Asphalt, PCN 87 / F / A / W / T 17.50 West - 18.00 East</p> <p>TWY B1: 23 M, Asphalt, PCN 85 / F / A / W / T 10.50 West - 11.50 East</p> <p>TWY K: 26 M, Concrete, PCN 83 / R / B / W / T No Limit West - No Limit East</p> <p>TWY L: 26 M, Asphalt, PCN 59 / F / A / W / T No Limit West - No Limit East</p> <p>A (B/W K & L): 26M, Asphalt, PCN 112 / F / A / W / T 17.50 North - No Limit South</p> <p>TWY M: 34 M, Asphalt, PCN 102 / F / A / W / T No Limit West - No Limit East</p> <p>TWY N: 34 M, Asphalt, PCN 79 / F / B / W / T No Limit West - No Limit East</p> <p>A (B/W M & N): 25M, Asphalt, PCN 112 / F / A / W / T 15.00 North - No Limit South</p> <p>TWY P: 33 M, Concrete, PCN 85 / R / B / W / T No Limit West - No Limit East</p> <p>TWY Q: 49 M, Concrete, PCN 56 / R / C / W / T No Limit - No Limit</p> <p>A (B/W P & Q): 30M, Asphalt, PCN 112 / F / A / W / T 15.00 North - No Limit South</p> <p>TWY R: 49 M, Concrete, PCN 87 / R / B / W / T No Limit - No Limit</p> <p>TWY S: 44 M, Asphalt, PCN 72 / F / A / X / T No Limit - No Limit</p> <p>TWY T: 42M, Asphalt, PCN 72 / F / A / X / T No Limit - 17.00 East</p> <p>TWY U: 42 M, Asphalt, PCN 75 / F / A / W / T 17.50 West - 18.00 East</p> <p>TWY V: 42M, Asphalt, PCN 120 / F / A / W / T 18.50 West - 17.50 East</p> <p>TWY B2, 30 M, Asphalt, PCN 84 / F / A / W / T 7.50 West - 7.50 East</p> <p>TWY Z: 63 M, Asphalt PCN 72 / F / A / X / T (between link R & T) No Limit North - No Limit South</p> <p>PCN 79 / F / A / W / T (between link T & V) 17.50 North - No Limit South</p>
3	Altimeter checkpoint location and elevation	Bays 42 - 46: 6 FT
4	VOR checkpoints	TBN
5	INS checkpoints	See ACFT Parking / Docking charts
6	Remarks	<p>Main Apron B consist from stands 14 – 22. Stand 14 can accommodate up to Code E aircraft, while stands 15 – 22 can accommodate upto code F. additionally, eastern apron (stands 23 – 28) can accommodate up to code F aircraft</p> <p>*with the exception of stand 28 which accommodates up to code C only*</p>

OBBI AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	<p>Taxiing guidance signs at all intersections with TWY and RWY at all holding positions.</p> <p>Taxi guide lines at all aprons.</p> <p>SAFEGATE Visual Docking Guidance System (VDGS) installed on stands:</p> <p>MIDDLE APRON (STAND 1 TO 6),</p> <p>CARGO APRON (STAND C1 TO C5),</p> <p>EXECUTIVE APRON (STAND E1 TO E4)</p> <p>EASTERN APRON (STAND 20 TO 28),</p> <p>FMT Aircraft Positioning and Information System (APIS) installed on stands: MAIN APRON B (STAND 14 TO 22).</p>
2	RWY and TWY markings	<p>RWY 12L / 30R: designation, THR, Displaced THR, TDZ, CL, Edges marked and lighted</p> <p>RWY 12R / 30L: designation, THR, Displaced THR, TDZ, CL, Edges marked and Displaced THR & Edges lighted</p> <p>TWY: CL, holding positions at all TWY/RWY intersections, marked and lighted (except TWY B2).</p>
3	Stop bars	Where appropriate, manually controlled by TWR.
4	Remarks	See also Aerodrome Ground Movement Chart for taxiing guidance. Road Holding positions to RWY: Reflective signs are available.

OBBI AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas				In circling area and at AD		
1				2		
Obstacle identification or designation	RWY NR/ Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle identification or designation	Obstacle type Elevation Markings/LGT	Coordinates
a	b	c	d	a	b	c
OB-1025	12L APCH	Lamppost 11.41 M, 37.43 FT NIL / NIL	261658.36N 0503658.50E	OB-1127	Comms Mast 41.29 M , 135.46 FT NIL / NIL	261704.32N 0503745.26E
OB-2273	12L APCH 12R TKOF	Building 16.27 M, 53.38 FT NIL / NIL	261654.76N 0503706.50E	OB-1146	ATC Dipole 53.56 M, 175.72 FT NIL / NIL	261600.98N 0503751.70E
OB-1234	12L TKOF	ILS FFM 7.86 M, 25.79 FT NIL / NIL	261534.71N 0503910.92E	OB-1209	Comms Mast 40.85 M , 134.02 FT NIL / NIL	261626.78N 0503856.76E
OB-2130	12L TKOF	Lamppost 12.46 M, 40.88 FT NIL / NIL	261535.00N 0503920.39E	OB-1213	Comms Mast 36.48 M, 119.68 FT NIL / NIL	261523.53N 0503857.43E
OB-1104	12L	Lamppost 12.92 M, 42.39 FT NIL / NIL	261654.60N 0503705.60E	OB-1295	Comms Mast 56.15 M , 184.22 FT NIL / NIL	261605.12N 0503649.33E
OB-1105	12L	Lamppost 12.33 M, 40.45 FT NIL / NIL	261652.95N 0503708.24E	OB-1321	Power Stn Chimney 68.21 M, 223.78 FT NIL / NIL	261306.68N 0503932.70E
OB-1106	12L	Lamppost 12.40 M, 40.68 FT NIL / NIL	261652.55N 0503709.23E	OB-2011	Water Tower 46.32 M 151.97 FT NIL / NIL	261650.15N 0503833.33E
OB-1107	12L	Lamppost 12.32 M, 40.42FT NIL / NIL	261652.24N 0503710.26E	OB-2024	Comms Mast 39.99 M, 131.2 FT NIL / NIL	261611.61N 0503915.02E
OB-1109	12L	Lamppost 12.20 M, 40.03FT NIL / NIL	261652.06N 0503711.30E	OB-2072	Building 77.30 M, 253.61 FT NIL / NIL	261725.96N 0503954.66E
OB-1115	12L	Tree 7.50 m, 24.61 FT NIL / NIL	261650.53N 0503711.82E	OB-2078	Crane (T) 95.81 M, 314.33 FT NIL / NIL	261704.89N 0503951.69E
OB-2269	12L	Building 18.62 M, 61.09 FT NIL / NIL	261657.46N 0503704.07E	OB-2165	Crane (T) 191.90 M, 629.59 FT NIL / NIL	261326.11N 0503633.69E
OB-2270	12L	Building 18.65 M, 61.19 FT NIL / NIL	261657.24N 0503704.26E	OB-2166	Crane (T) 201.55 M, 661.25 FT NIL / NIL	261324.31N 0503632.51E
OB-2272	12L	Building 17.59 M, 57.71 FT NIL / NIL	261655.33N 0503707.41E	OB-2233	Building 82.29 M, 269.98 FT NIL / NIL	261445.33N 0503606.04E
OB-5115	12L	Mobile Obstacle 6.47 M, 21.23 FT NIL / NIL	261651.07N 0503710.26E	OB-2235	Crane (T) 252.40 M, 828.07 FT NIL / NIL	261427.54N 0503421.34E
OB-5116	12L	Mobile Obstacle 6.38 M, 20.93 FT NIL / NIL	261650.35N 0503711.51E	OB-2240	Financial Harbour Building 266.57 M, 874.56 FT NIL / NIL	261415.86N 0503421.56E

In approach/TKOF areas				In circling area and at AD		
1				2		
Obstacle identification or designation	RWY NR/ Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle identification or designation	Obstacle type Elevation Markings/LGT	Coordinates
a	b	c	d	a	b	c
OB-1018	30R TKOF	Lamppost 11.57 M, 37.96 FT NIL / NIL	261659.85N 0503651.62E	OB-2241	Financial Harbour Building 266.74 M, 875.12 FT NIL / NIL	261415.89N 0503427.61E
OB-1048	30R TKOF	Lamppost 11.52 M, 37.79 FT NIL / NIL	261653.00N 0503646.81E	OB-2242	WTC Building 246.81 M, 809.73 FT NIL / NIL	261422.26N 0503453.85E
OB-1197	30R	DVOR Monitor 8.584 M, 28.15 FT NIL / NIL	261531.38N 0503916.68E	OB-2243	WTC Building 247.07 M, 810.59 FT NIL / NIL	261421.81N 0503453.14E
OB-1247	12R TKOF	Tree 10.46 M, 34.32 FT NIL / NIL	261527.67N 0503916.88E	OB-2249	Building Antenna 206.60 M, 677.81 FT NIL / NIL	261346.40N 0503331.13E
OB-1248	12R TKOF	Tree 9.62 M, 31.56 FT NIL / NIL	261527.23N 0503916.61E	OB-2250	Building Antenna 206.51 M, 677.52 FT NIL / NIL	261350.69N 0503331.27E
OB-1272	12R TKOF	Lamppost 8.19 M, 26.87 FT NIL / NIL	261523.70N 0503909.89E	OB-2261	Building Antenna 213.23 M, 699.56 FT NIL / NIL	261412.06N 0503259.14E
OB-2121	12R TKOF	Lamppost 16.64 M, 54.59 FT NIL / NIL	261516.53N 0503924.54E	OB-2299	Flag Pole 52.35 M, 171.75 FT NIL / NIL	261556.95N 0503545.28E
OB-2122	12R TKOF	Lamppost 16.58 M, 54.4 FT NIL / NIL	261516.95N 0503922.10E	OB-2309	Building 52.09 M, 170.9FT NIL / NIL	261547.74N 0503545.31E
OB-2144	12R TKOF	Lamppost 11.72 M, 38.45 FT NIL / NIL	261526.28N 0503920.36E			
OB-2145	12R TKOF	Lamppost 11.86 M, 38.91FT NIL / NIL	261525.34N 0503920.08E			
OB-5206	12R TKOF	Mobile Obstacle 6.45 M, 21.16 FT NIL / NIL	261530.03N 0503913.81E			
OB-5761	12R TKOF	Mobile Obstacle 6.27 M, 20.57 FT NIL / NIL	261526.99N 0503905.27E			
OB-1093	30L TKOF	Apron Light 23.14 M, 75.92 FT NIL / NIL	261633.28N 0503707.18E			
OB-1094	30L	Apron Light 23.19 M, 76.08 FT NIL / NIL	261634.49N 0503708.04E			
OB-1095	30L TKOF	Apron Light 15.14 M, 49.67 FT NIL / NIL	261635.67N 0503708.88E			
OB-1213	30L	Comms Mast 36.48 M, 119.68 FT NIL / NIL	261523.53N 0503857.43E			

In approach/TKOF areas				In circling area and at AD		
1				2		
Obstacle identification or designation	RWY NR/ Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle identification or designation	Obstacle type Elevation Markings/LGT	Coordinates
a	b	c	d	a	b	c
OB-5760	30L	Mobile Obstacle 6.21 M, 20.37 FT NIL / NIL	261530.23N 0503859.66E			

OBBI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	BAHRAIN MET. See also GEN 3.5.1.4
2	Hours of service MET Office outside hours	H24. See also GEN 3.5.1.4 NIL
3	Office responsible for TAF preparation Periods of validity	BAHRAIN MET HR 30
4	Trend forecast Interval of issuance	Trend 1/2 HR
5	Briefing/consultation provided	Personal consultation, partial self briefing, telephone to Forecaster. See also GEN 3.5.1.5
6	Flight documentation Language(s) used	Charts, abbreviated plain language text English
7	Charts and other information available for briefing or consultation	S, U25, P25 (other levels on request), T, SWH (East & West), SWM (MID), TB (Gulf sector winds). See also GEN 3.5.1.5
8	Supplementary equipment available for providing information	Telefax, Self briefing terminal. See also GEN 3.5.1.5
9	ATS units provided with information	BAHRAIN TWR, APC, ACC, RCC
10	Additional information (limitation of service, etc.)	See GEN 3.5.1

OBBI AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
12L	122°37'02"TB 119°42'02"MB	3964 x 60	120 / F / A / W / T Asphalt between landing THRs 120 / R / B / W / T Concrete first 307 M	Landing THR: 261644.34N 0503710.28E THR end: 261649.67N 0503701.03E -90.38 FT	7.55 FT 8.63 FT
30R	302°37'47"TB 299°42'47"MB	3964 x 60	120 / F / A / W / T Asphalt between landing THRs 120 / R / B / W / T Concrete first 307 M	Landing THR: 261545.62N 0503852.03E THR end: 261540.28N 0503901.28E -90.38 FT	7.35 FT 7.35 FT
12R	122°37'20"TB 119°42'20"MB	2530 x 45	120 / F / A / W / T Asphalt	Landing THR: 261610.74N 0503755.62E THR end: 261616.13N 0503746.29E -90.38 FT	8.04 FT 8.04 FT

Designations RWY NR	TRUE & MAG BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
30L	302°37'48"TB 299°42'48"MB	2530 x 45	120 / F / A / W / T Asphalt	Landing THR: 261533.91N 0503859.44E THR end: 261531.79N 0503903.10E -90.38 FT	6.76 FT 6.46 FT
Note: RWY 12R / 30L is not an active Runway. In exceptional circumstances, ATC may assign RWY 12R / 30L provided that the procedures are in place and Runway 12L / 30R is deactivated. Approaches to land or take off on RWY 12R / 30L shall not be planned without specific authorization from BCAA.					

Slope of RWY-SWY			SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7			8	9	10	11	12
12L	0.0%	NIL	NIL	NIL	4084 x 300	Yes	Non load bearing shoulders 8 M; RWY is liable to be slippery when wet
30R	0.0%	NIL	NIL	NIL	4084 x 300	Yes	Non load bearing shoulders 8 M; RWY is liable to be slippery when wet
12R	0.0%	NIL	NIL	60 x 150	2650 x 150	No	Non load bearing shoulders 7.5 M
30L	0.0%	NIL	NIL	600 x 150	2650 x 150	No	Non load bearing shoulders 7.5 M
Note: Standard RESA 240 M available for RWY 12L and 30R							

OBBI AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
12L	3964	3964	3964	3657	NIL
30R	3964	3964	3964	3657	NIL
12R	2530	2590	2530	2222	NIL
30L	2530	3130	2530	2410	NIL

OBBI AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
12L	ICAO CAT II precision approach lighting system 900 M LIH	Green	PAPI LEFT 3° 67.15FT	900 M	White LIH 3964 M; 30 M white; 3000 M - 3600 M red / white; from 3600 M red LIH	White LIH 3964 M; 60 M; last 600 M yellow	Red	NIL	NIL

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
30R	ICAO CAT II precision approach lighting system 900 M LIH	Green	PAPI LEFT 3° 67.15 FT	900 M	White LIH 3964 M; 30 M white; 3000 M - 3600 M red / white; from 3600 M red LIH	White LIH 3964 M; 60 M; last 600 M yellow	Red	NIL	NIL
12R	Simple approach lighting system (for non-instrument RWY) 420 M	Green	PAPI LEFT 3° 70.4 FT	NIL	NIL	White LIH 2530 M; 60 M; last 600 M yellow	Red	NIL	NIL
30L	Simple approach lighting system (for non-instrument RWY) 420 M	Green	PAPI LEFT 3° 70.4 FT	NIL	NIL	WHITE LIH 2530 M; 60 M; last 600 M yellow	Red	NIL	NIL

Note: RWY incursion lights (wig wag) installed at all TWY / RWY intersections 2.6 M from TWY edge. Height 65 CM..

OBBI AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and operational hours	NIL
2	LDI location and LGT Anemometer location and LGT	NIL 350 M WSW of THR 30R; lighted
3	TWY lighting	Green CL , Runway intersections
4	Secondary power supply/switch-over time	- SECONDARY POWER SUPPLY TO ALL AD LIGHTING : 5 SECONDS. - DURING CAT II OPERATION, STANDBY GENERATOR SWITCH-OVER TIME 1 SECOND
5	Remarks	Apron: Blue Apron edge, TWY " B1 " is a solar powered blue edge light.

OBBI AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	As directed by ATC

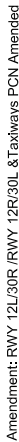
OBBI AD 2.24 CHARTS RELATED TO AN AERODROME

Chart name	Page
AERODROME/HELIPORT CHART	AD 2-OBBI-25
AERODROME GROUND MOVEMENT CHART	AD 2-OBBI-27
AIRCRAFT PARKING DOCKING CHART MAIN APRON A	AD 2-OBBI-29
AIRCRAFT PARKING DOCKING CHART MAIN APRON B	AD 2-OBBI-31
AIRCRAFT PARKING DOCKING CHART MIDDLE AND CARGO APRONS	AD 2-OBBI-33
AIRCRAFT PARKING DOCKING CHART EXECUTIVE AND CARGO APRON	AD 2-OBBI-35
AIRCRAFT PARKING DOCKING CHART WESTERN APRONS A & B, AND CARGO & EXECUTIVE APRONS	AD 2-OBBI-37
AIRCRAFT PARKING DOCKING CHART NORTHERN APRON	AD 2-OBBI-39
AIRCRAFT PARKING DOCKING CHART EASTERN APRON	AD 2-OBBI-41
AIRCRAFT PARKING DOCKING CHART EASTERN APRON EXECUTIVE	AD 2-OBBI-43
AERODROME OBSTACLE CHART RWY 12L / 30R	AD 2-OBBI-45
AERODROME OBSTACLE CHART RWY 12R / 30L	AD 2-OBBI-47
PRECISION APPROACH TERRAIN CHART - ICAO RWY 30R	AD 2-OBBI-49
PRECISION APPROACH TERRAIN CHART - ICAO RWY 12L	AD 2-OBBI-51
AREA CHART BAHRAIN	AD 2-OBBI-53
DEPARTURE CHART (RADAR) RWY 12L	AD 2-OBBI-55
DEPARTURE CHART (RADAR) RWY 30R	AD 2-OBBI-57
CIRCLING AUTHORIZATION AREA	AD 2-OBBI-59
IAC - ICAO RWY 12L VOR DME ILS CAT A-D	AD 2-OBBI-61
IAC - ICAO RWY 12L VOR DME CAT A-D (L)	AD 2-OBBI-63
IAC - ICAO RWY 12L VOR CAT A-D (L)	AD 2-OBBI-65
IAC - ICAO RWY 12R RNAV (GNSS) CAT A-D(L)	AD 2-OBBI-67
IAC - ICAO RWY 12L RNAV GNSS CAT A-D (L)	AD 2-OBBI-69
IAC - ICAO RWY 12R VOR DME CAT A-D (L)	AD 2-OBBI-71
IAC- ICAO RWY 30L VOR DME CAT A-D (L)	AD 2-OBBI-73
IAC - ICAO RWY 30R VOR DME ILS CAT A-D	AD 2-OBBI-75
IAC - ICAO RWY 30R VOR DME CAT A-D (L)	AD 2-OBBI-77
IAC - ICAO RWY 30R VOR CAT A-D (L)	AD 2-OBBI-79
IAC - ICAO RWY 30R RNAV GNSS CAT A-D (L)	AD 2-OBBI-81
IAC - ICAO RWY 30L RNAV (GNSS) CAT A-D(L)	AD 2-OBBI-83
Visual Approach Chart - ICAO	AD 2-OBBI-85
BIRD CONCENTRATIONS	AD 2-OBBI-87
RADAR MINIMUM ALTITUDE CHART	AD 2-OBBI-89
STAR CHART - ICAO RWY 12L/30R RNAV1 - RADIO COMMUNICATION FAILURE STAR	AD 2-OBBI-91
STAR CHART - ICAO RWY 12L/30R RNAV1 - DENVO 1 ARRIVAL	AD 2-OBBI-93
STAR CHART - ICAO RWY 12L/30R RNAV1 - KOBOK 1 ARRIVAL	AD 2-OBBI-95
STAR CHART - ICAO RWY 12L/30R RNAV1 - LADNA 1 ARRIVAL	AD 2-OBBI-97
STAR CHART - ICAO RWY 12L/30R RNAV1 - SOGAT 1 ARRIVAL	AD 2-OBBI-99
LOW VISIBILITY PROCEDURE - DEPARTURE RWY 12L-30R	AD 2-OBBI-101
LOW VISIBILITY PROCEDURE - ARR RWY 12L - 30R	AD 2-OBBI-103

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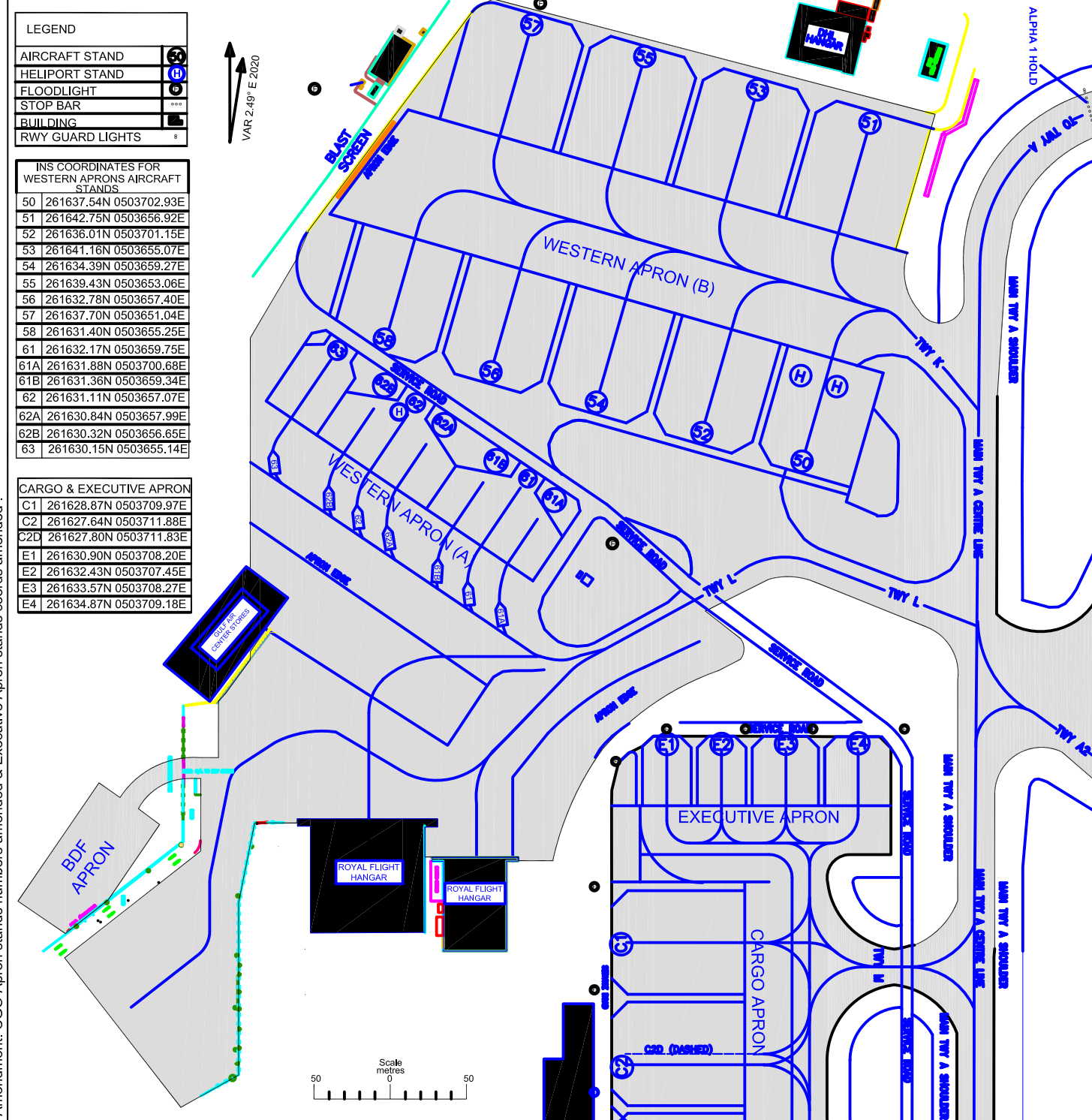
WESTERN APRONS (A), (B) AND CARGO & EXECUTIVE APRONS

AIRCRAFT PARKING/ DOCKING CHART - ICAO

APRON ELEV
8 FT

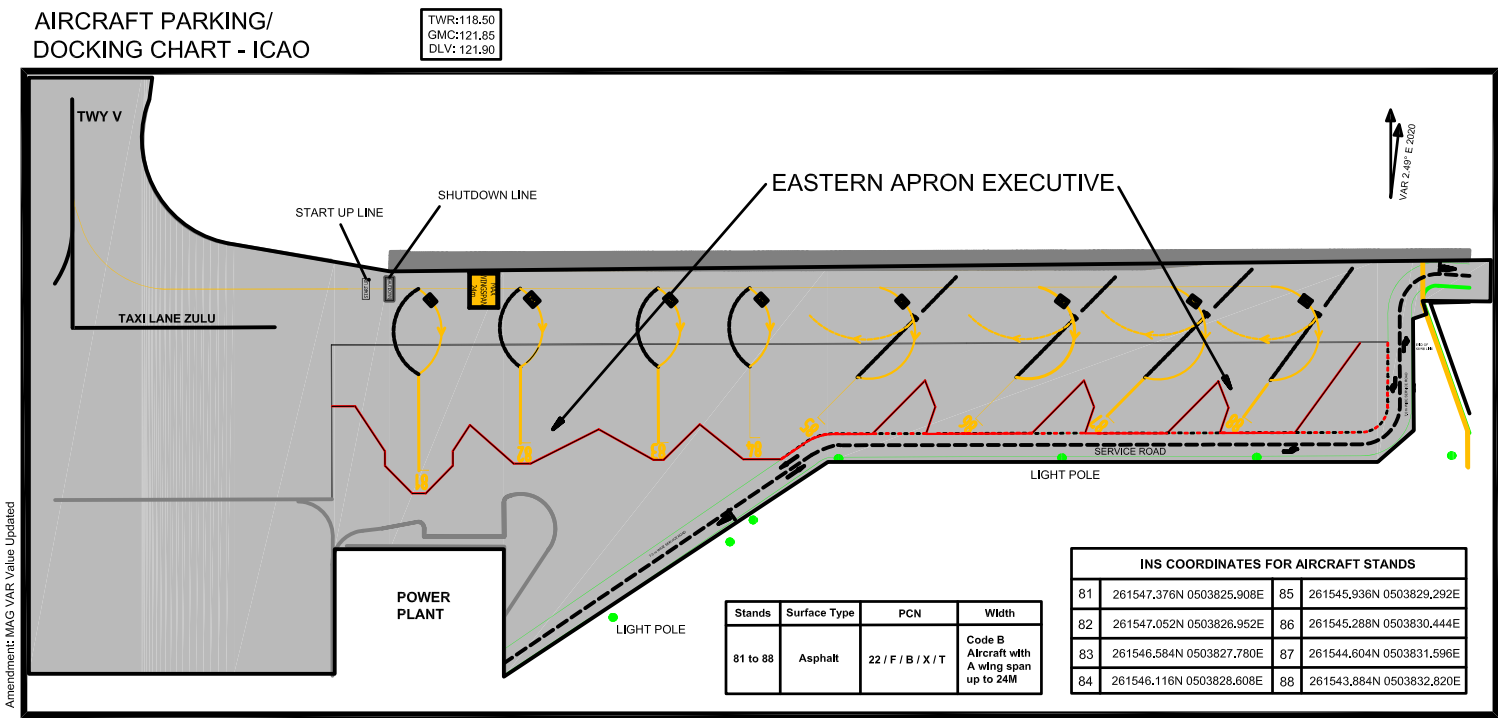
TWR 118.50
GMC 121.85
DLV 121.90

BAHRAIN / Bahrain Intl.

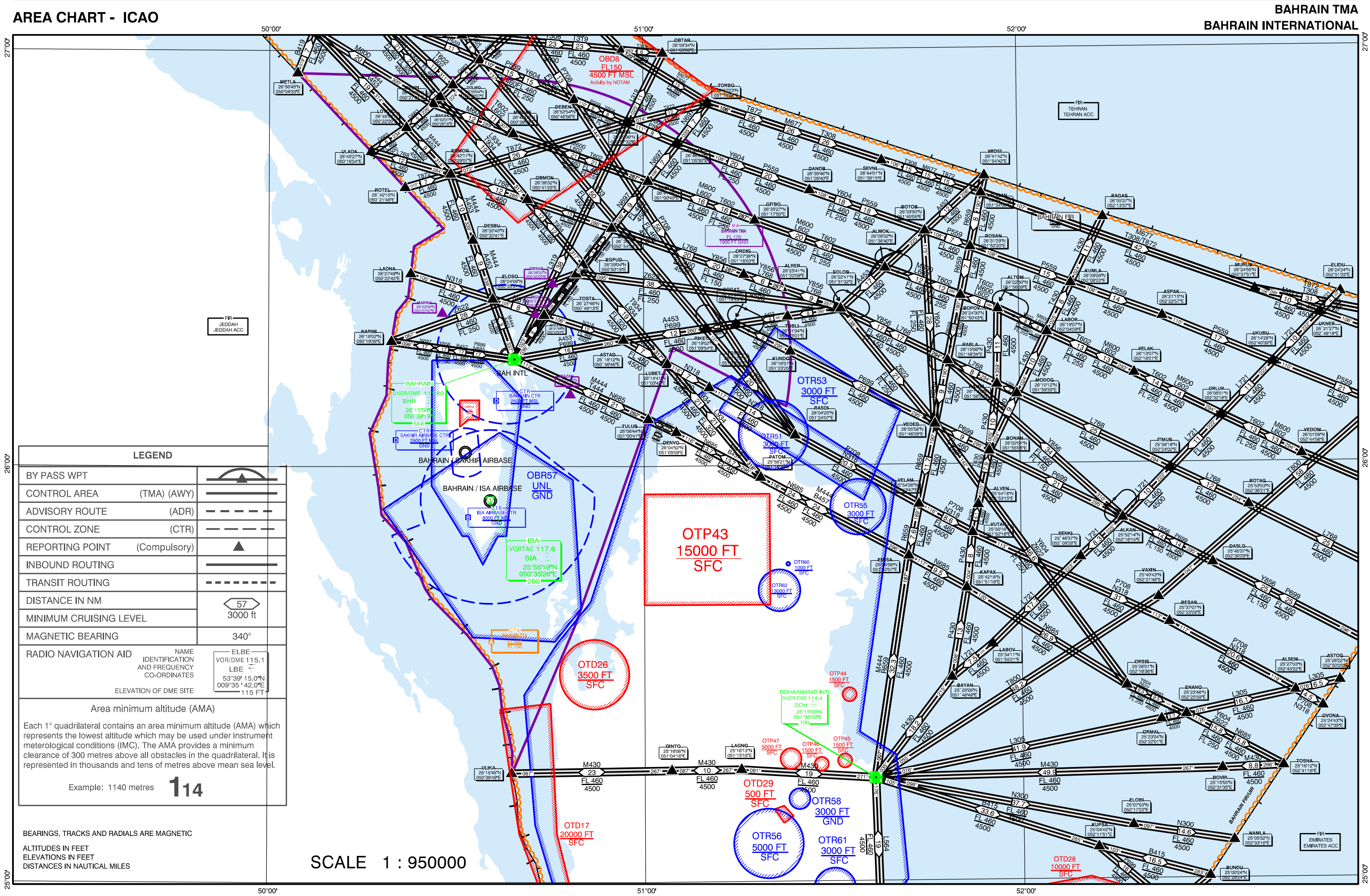


Amendment: CGO Apron stands numbers amended & Executive Apron stands coords amended .

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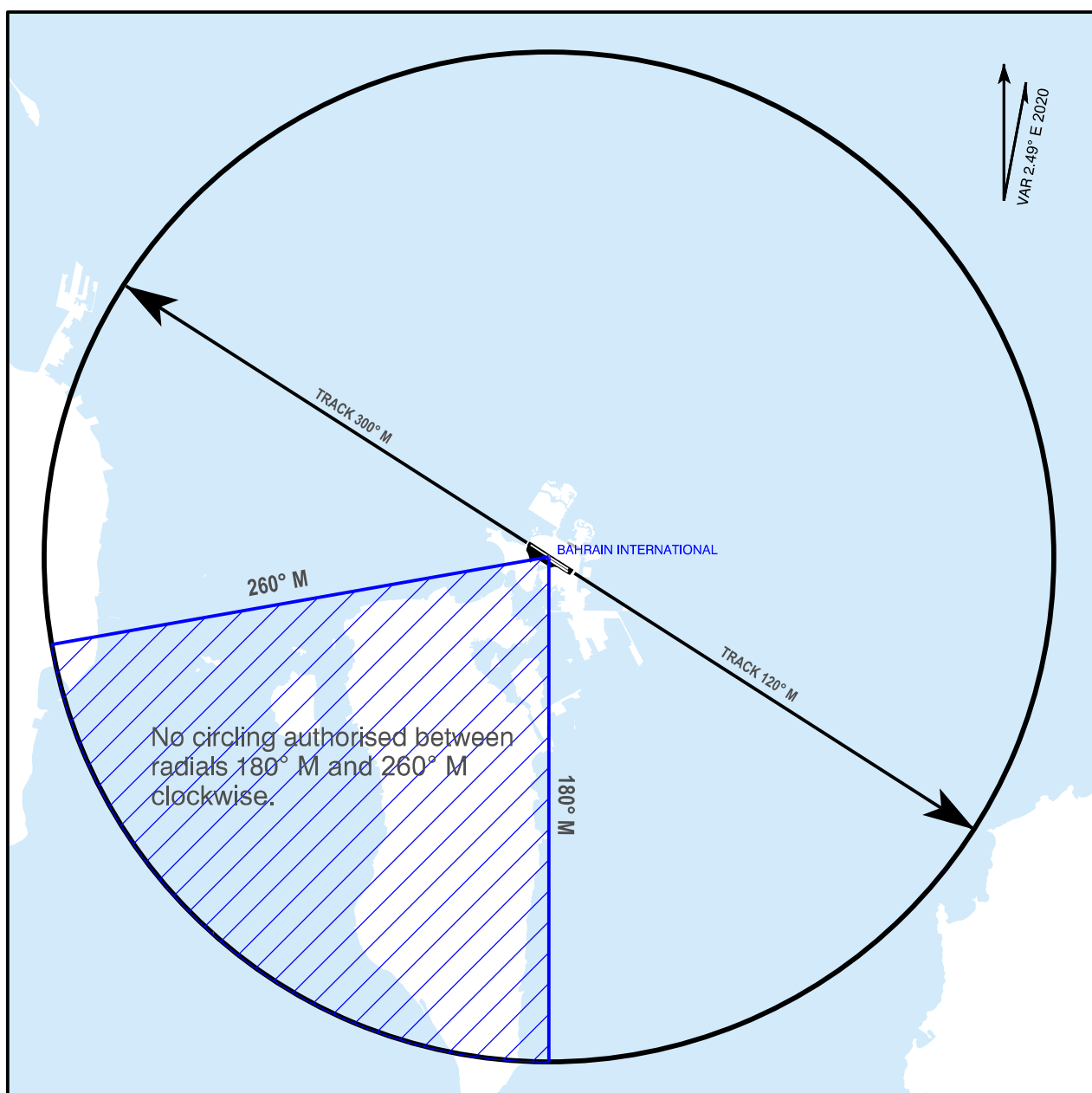
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BAHRAIN INTERNATIONAL

CIRCLING AUTHORIZATION AREA



Amendment: Departure headings amended.

APPLICABLE TO RWY 12L/30R DEPARTURE.

- 1) RWY 30R Expect right turn heading 345° M or heading 300° M.
- 2) RWY 12L Expect left turn heading 075° M or heading 120° M.
- 3) Departure Frequency 119.100 MHZ.

Heading assigned by ATC shall only be between 260° M through north to 180° M.

Procedures are only valid within 25 NM ARP.

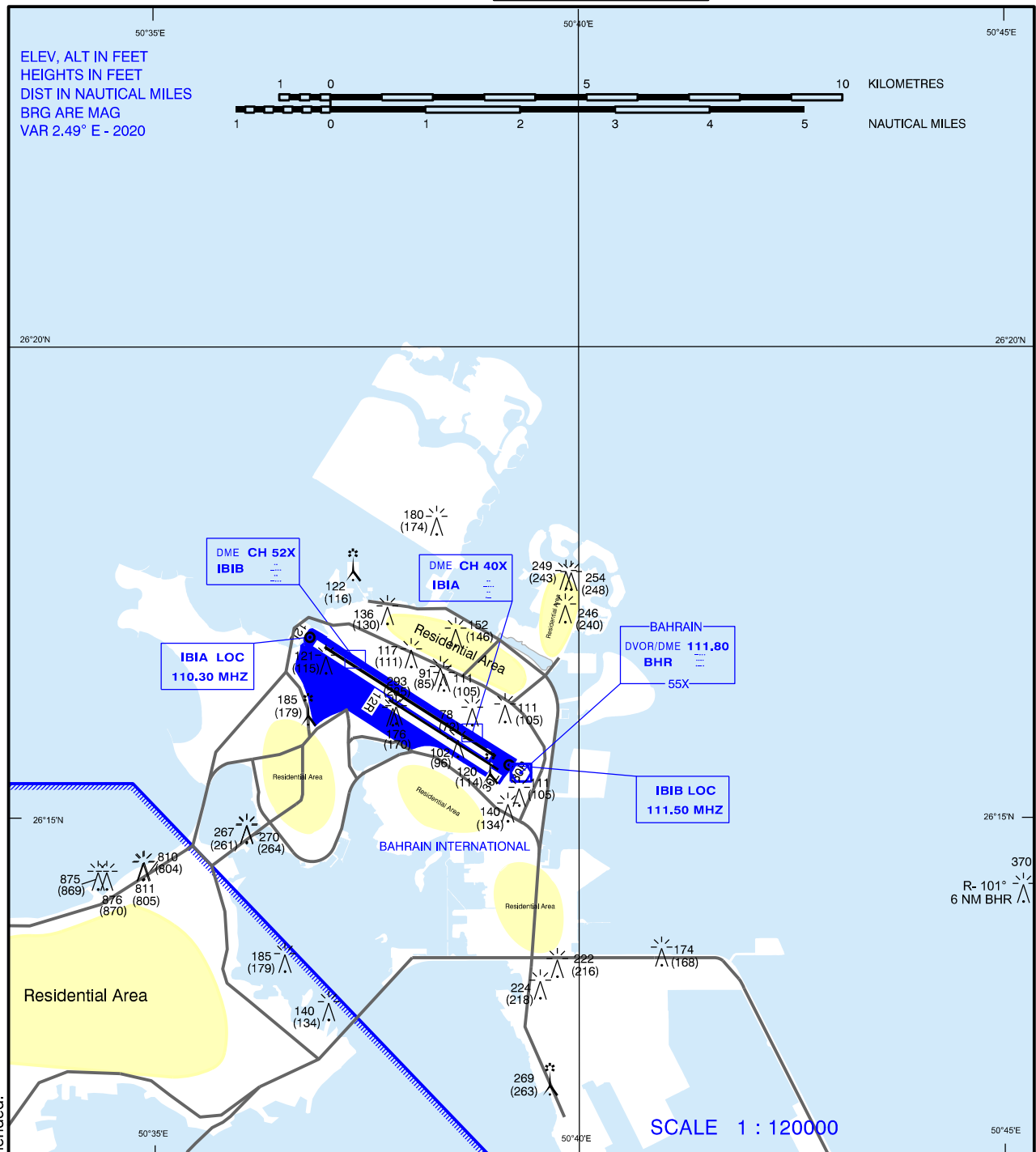
No circling authorized between radials 180° M and 260° M clockwise.

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VISUAL APPROACH
CHART - ICAOAERODROME ELEV 8 FT
HEIGHTS RELATED TO AD ELEV

APP:	127.85	119.1	234.95
TWR:	118.5	296.025	
SMC:	121.85		
DLV:	121.90		
DATIS:	127.2		

BAHRAIN INTL (OBBI)



NOTE:

- 1) RWY 12R/30L is a non-instrument runway.
- 2) RWY 12R/30L, C/L green when used as taxiway.
- 3) For RWY 12R/30L procedure refer to AIP relevant pages..
- 4) Control tower height 175ft AGL abeam RWY 12R THR.
- 5) Unless otherwise instructed by ATC and in the event of missed approach while conducting visual approach, aircraft must:
RWY12L-climb to 2500FT heading 120 DEG and contact ATC ASAP.
RWY30R -climb to 2500FT heading 300 DEG and contact ATC ASAP.

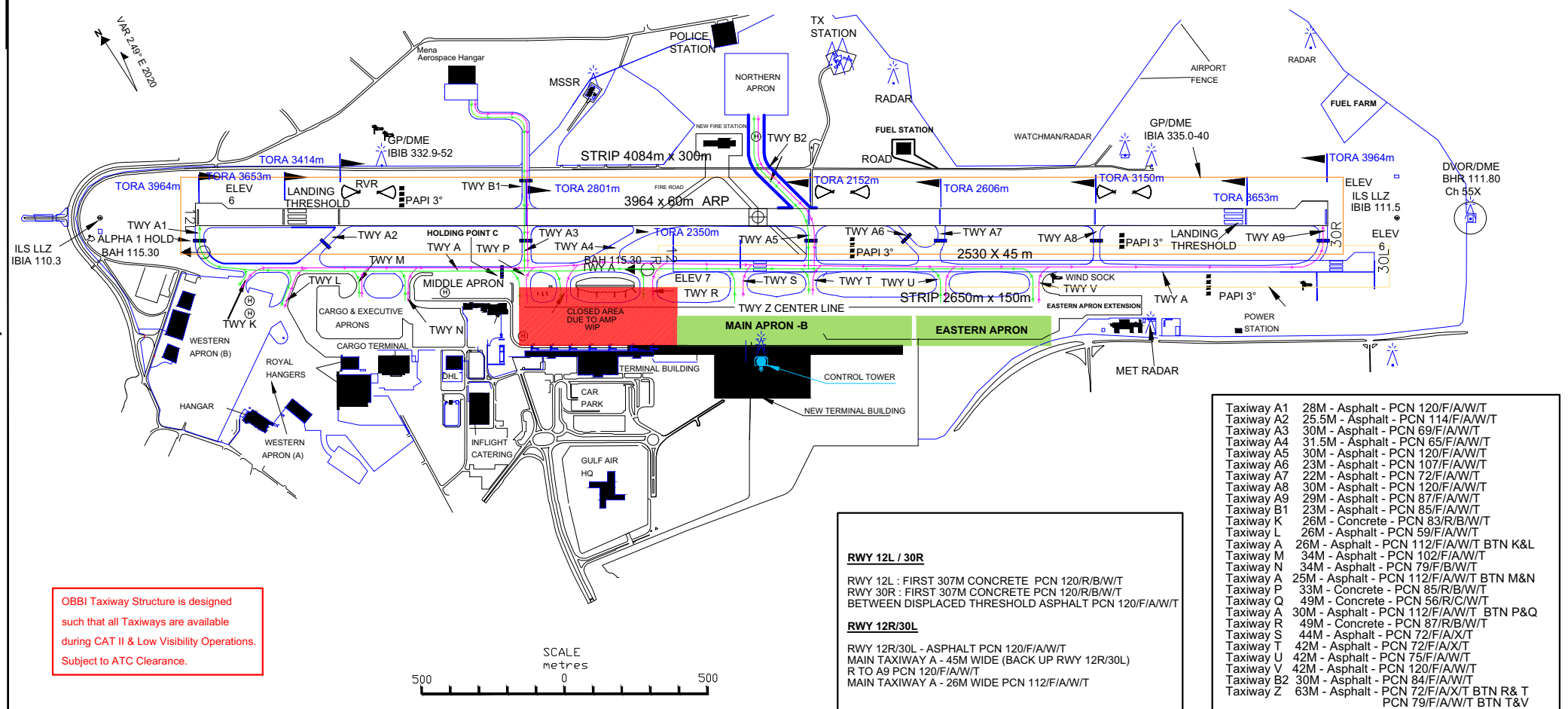
Amendment:RWY 12L/30R headings amended.

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LOW VISIBILITY PROCEDURE
LVP CHART (DEP RWY 12L/30R)DISTANCES IN METRES
ALTITUDES, ELEVATIONS AND
HEIGHTS IN FEET.26°16'14.97"N
050°38'01.17"EAPRON ELEV
8.92 FTTWR 118.50
GMC 121.85
DLV 121.90

RUNWAY 12L – 30R DEPARTURE	
DEPARTURE RWY 12L	
DEPARTURE RWY 30R	
STOPBARS	

Amendment: RWY 12L/30R /RWY 12R/30L & Taxiways PCN Amended



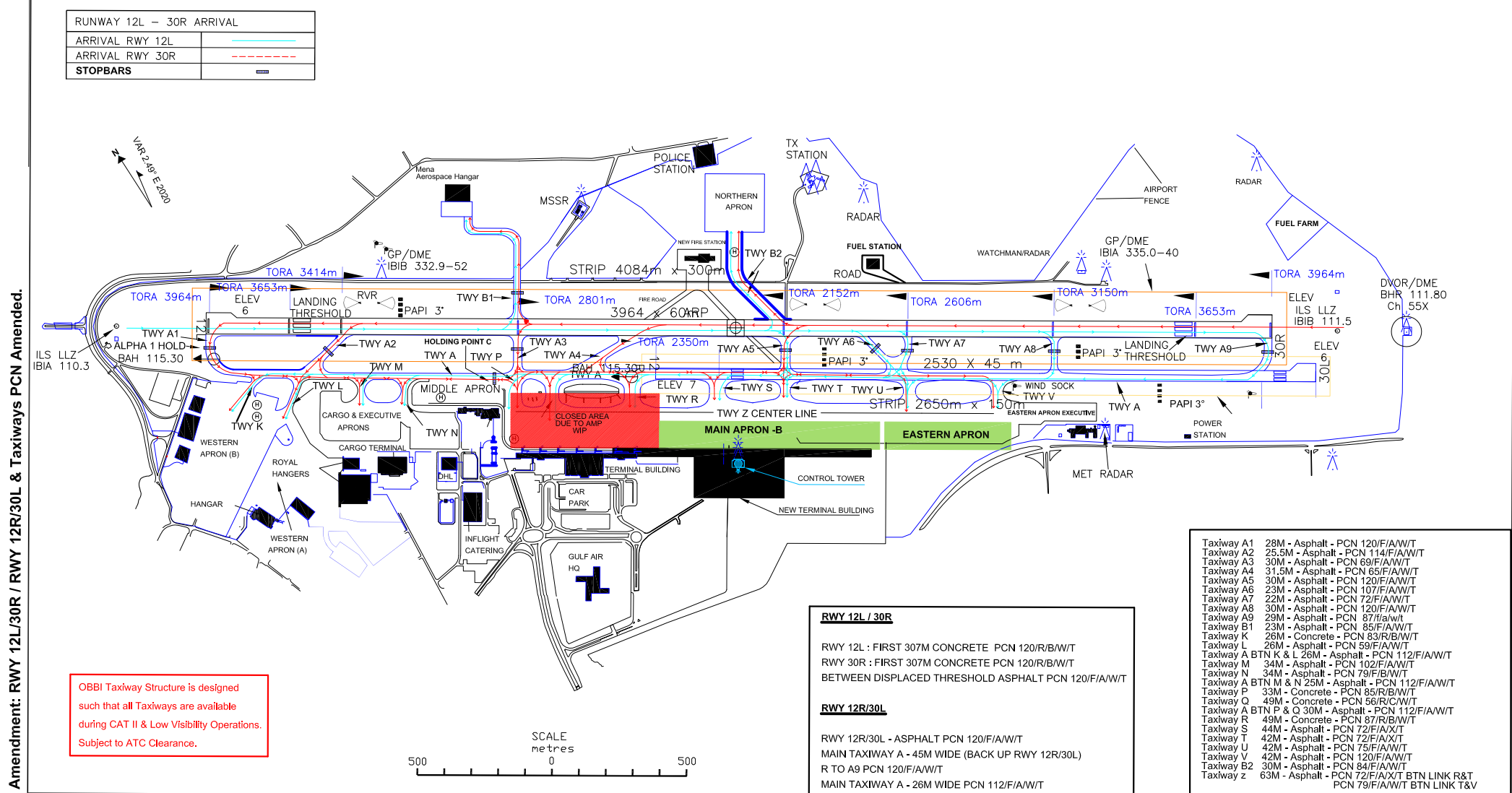
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DISTANCES IN METRES
ALTITUDES, ELEVATIONS AND
HEIGHTS IN FEET.

26°16'14.97"N
050°38'01.17"E

APRON ELEV
8.92 FT

TWR	118.50
GMC	121.85
DLV	121.90



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