



ICAO BANGKOK

UNITING AVIATION

AAITF/15

STANDARDIZED AERONAUTICAL INFORMATION

Erdenebaatar Davaasuren,

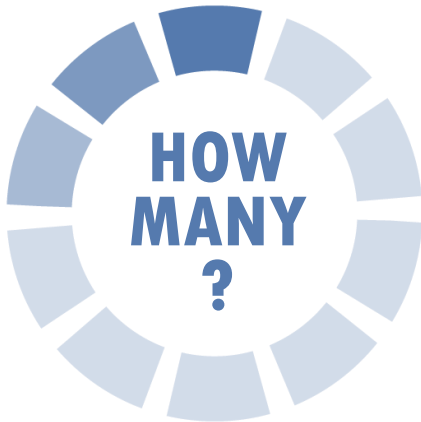
*Associate Regional Officer - Aeronautical Information Management,
International Civil Aviation Organization (ICAO),
Asia and Pacific Regional Office*

Bangkok, Thailand, 01-05 June 2020



Introduction

- IATA presented observations and recommendations from member airlines for the improvement of delivery of aeronautical information at AAITF/14.
- AAITF/14 developed the following Conclusion, subsequently agreed by ATM/SG/7:



Conclusion ATM/SG/7-11: Standardized Aeronautical Information

That, noting:

- 1. previous APANPIRG Conclusions 23/8, 24/19 and 28/7, and ATM/SG Conclusion 6/14;*
- 2. lack of conformance of many States with the provisions of Annex 15 and PANS-AIM on the presentation and promulgation of aeronautical information; and*
- 3. expediting the transfer of valid temporary NOTAM information of long the safety-critical requirement for standardized presentation and content of aeronautical information;*

*States are urged to immediately take all necessary steps to fully review all aeronautical information products and rectify errors and omissions, to ensure full compliance with the provisions of **Annex 15 Chapter 5** and **PANS-AIM Chapter 5**.*

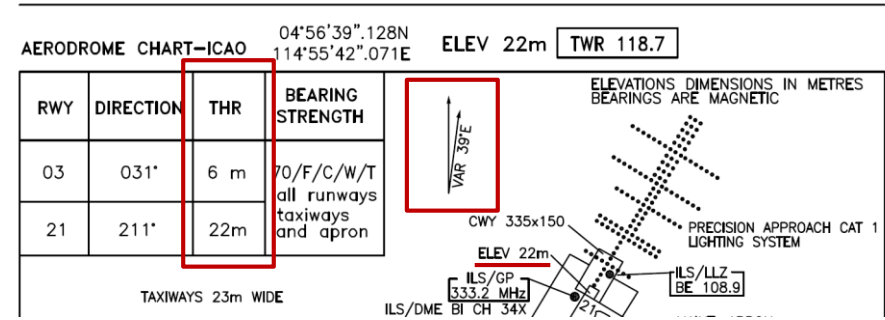
Issues

– Inconsistencies in Aeronautical chart

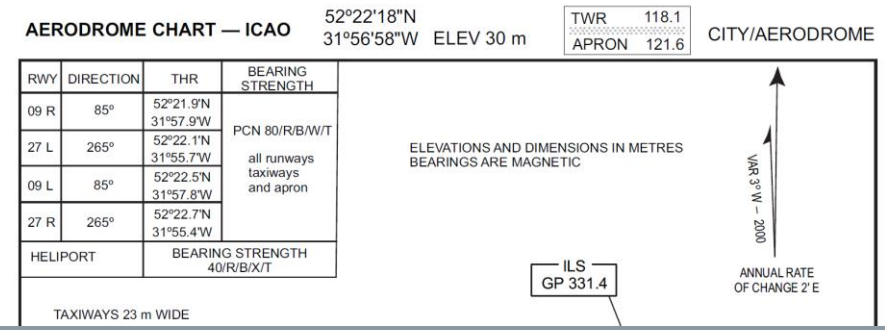
- THR COORD vs THR ELEV
- Magnetic variation: 39° E
- Higher chart resolution: 1/1000 sec

– Chart Resolution in ICAO Documents

- **Annex 4 – 2018:** geographical coordinates in degrees, minutes and seconds for thresholds
- **PANS AIM, Doc 10066 – 2018:** geographical location for runway threshold - 1 sec
- **Doc 8697 – 2016:** geographical coordinates to at least one-tenth of a minute for thresholds



AERONAUTICAL CHART MANUAL of Chapter 7.13 SPECIMEN CHART **11**





Issues

– Incorrect AIS Product

- Annex 15: 6.3.1.2 Permanent changes to the AIP shall be published as **AIP Amendments**.

– Publication resolution

- Airway segment length: **1/10 km** or **1/10 NM**
- Geographical location of waypoint: **1 sec**

– Abbreviation

- ‘AIRAC’ – should be included in the AIP Supplement.
- ‘SUPP’ – not included in the ICAO Doc 8400.
- ‘MFA’ – not compliant with PANS AIM, Appendix 1.
 - ENR 3.1 Lower ATS Route: upper and lower limits or MEA
 - ENR 3.2 Upper ATS Route: upper and lower limits
 - ENR 3.4 Helicopter routes: upper and lower limits, **MFA**

AIP Supplement

AIP SUPP
02/19
15 August 2019

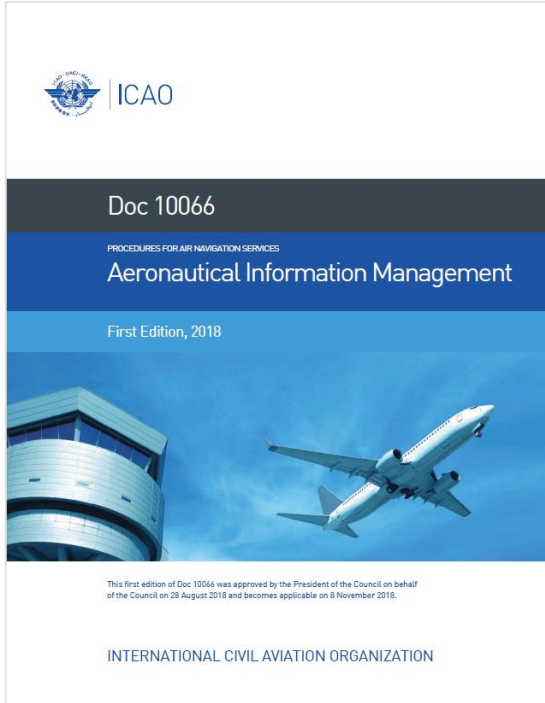
PUBLICATION DATE : 20 June 2019.

EFFECTIVE DATE : 15 August 2019.

Subject : Establishment of new ATS Route B594.

Route Designator Name of Significant Points Co-ordinates	Track MAG(GEO) VOR RDL DIST (COP)	Upper Limits Lower Limits MFA Airspace Classification	Lateral Limits (NM)	Direction of Cursing Levels		Remarks Controlling Unit Frequency
				Odd	Even	
1	2	3	4	5		6

B594						
▲ VOR CML 232601.60N 0911124.33 E			10NM	↓		Airway FIS below Airway. Dhaka ACC 126.7/125.7 MHz FPLs shall also be addressed to Kolkata ATC on VECFZQZX
	160°/340° 55 NM	FL 460/FL245 4000 FT Class B				
▲ ONEKA 223448.00N 0913214.00E						
	141°/321° 25 NM	FL 460/FL245 4000 FT Class B				
▲ VOR CTG 221527.85N 0914938.93 E				↑		



Issues in AIP Content

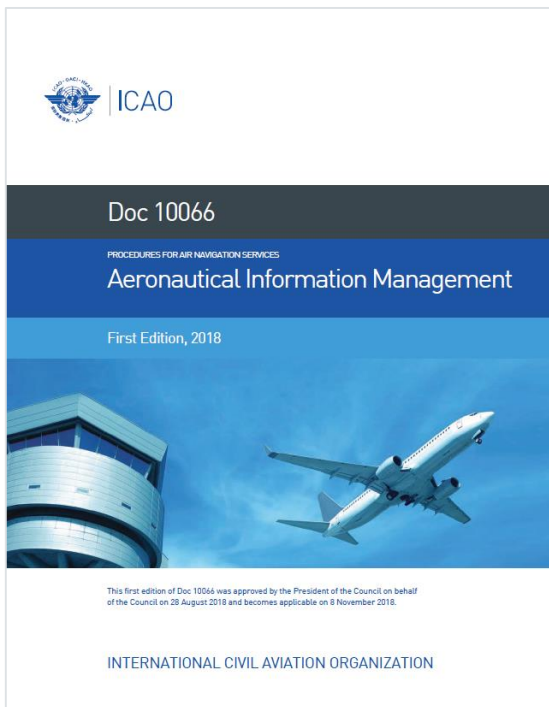
– GEN 2.1.4 Vertical Reference System

- 5 of 26 Administration's AIP are compliant with PANS-AIM
Bhutan, India, Mongolia, Nepal and Republic of Korea

GEN 2.1.4 Vertical reference system

Brief description of the vertical reference system used, including:

- 1) name/designation of the reference system;
- 2) description of the geoid model used including the parameters required for height transformation between the model used and EGM-96; and
- 3) an explanation, if applicable, of the asterisk used to identify those elevations/geoid undulations that do not meet the accuracy requirements.



Issues in AIP Content

– AD 1.5 Status of certification of aerodromes

- 9 of 26 Administration's AIP are not compliant with PANS-AIM

Afghanistan, Australia, Bhutan, Brunei Darussalam, China, Macao China, Fiji, New Zealand, Philippines

App 2-32

Procedures — Aeronautical Information Management

AD 1.5 Status of certification of aerodromes

A list of aerodromes in the State, indicating the status of certification, including:

- 1) aerodrome name and ICAO location indicator;
- 2) date and, if applicable, validity of certification; and
- 3) remarks, if any.



Issues in AIP Content

– AD 2.10 Aerodrome Obstacles

- **6 of 26** Administration’s AIP are compliant with PANS-AIM *Indonesia, Mongolia, Myanmar, Nepal, Republic of Korea and Viet Nam*

AD 2-4
27 NOV 03

AIP

EADD 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
EADDOB001	Antenna	522142.17N 0320215.24W	93/60 M	MARKED/FLS W	Obstacle data sets are available (see GEN 3.1.6)

In Area 3					
OBST ID/ Designation	OBST type	OBST position	ELEV/HGT	Markings/ Type, colour	Remarks
a	b	c	d	e	f
EADDOB005	Terminal building	522124.86N 0315452.18W	31.5/15 M	MARKED/HI R	Obstacle data sets are available (see GEN 3.1.6)

AD 2.10 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MAG BRG	Dimension of RWY (M)	Strength (PCN) and Surface of RWY and SWY	THR coordinates RWY end coordinates	THR elevation and highest elevation of TDZ of precision APP RWY
05	046 ⁰ MAG	3000 × 45	80/F/B/X/U Asphalt	113213.46N 1045003.40E	THR 12M/40FT WIDTH OF U TURN 99M
22	226 ⁰ MAG	3000 × 45	80/F/B/X/U	RWY END	THR 11M/37FT

AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling and at AD		Remarks
RWY/Area affected	Obstacles type Elevation Marking/LGT	Coordinates	Obstacle type Elevation Marking/LGT	Coordinates	
					a
16 / APCH 34 / TKOF	Entrance fairway for Porto Interior & Porto Exterior	NIL.			NIL.
16 / TKOF 34 / APCH	Entrance fairway for Porto de KA HO	NIL.			

AD 2.10 Aerodrome Obstacles

10.1 General

10.1.1 Data on aerodrome obstacles is published in SUP.



Regional AIP Supplement Statistics

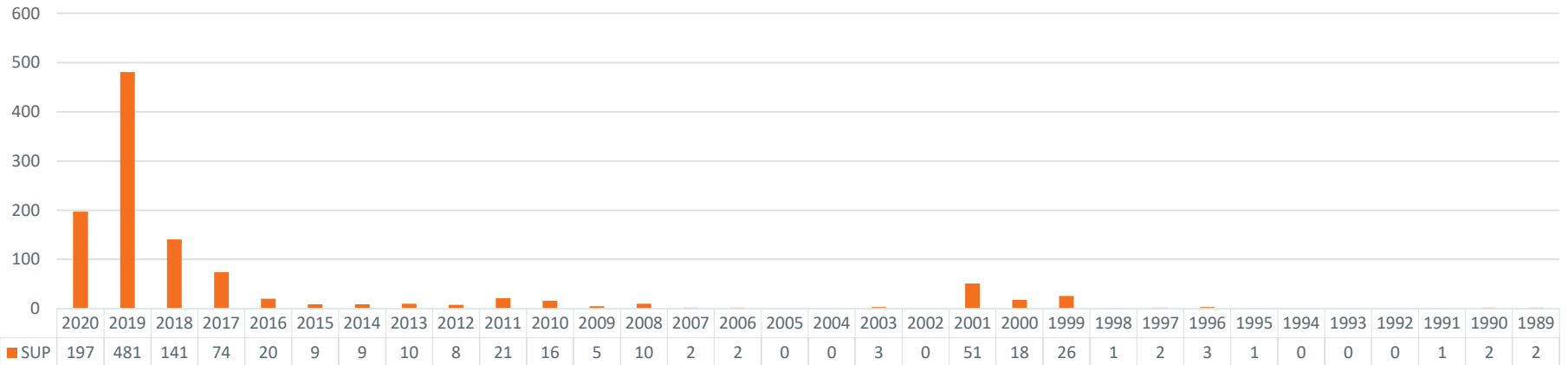
- Total AIP SUPs: **1115** (as of March 2020)
- Oldest AIP SUP: published in **1989** (21 years old)
- Most AIP SUPs published in: **2019** (as of March 2020)

AIP Supplement. Temporary changes to the information contained in the AIP which are provided by means of special pages.

Temporary changes

VS

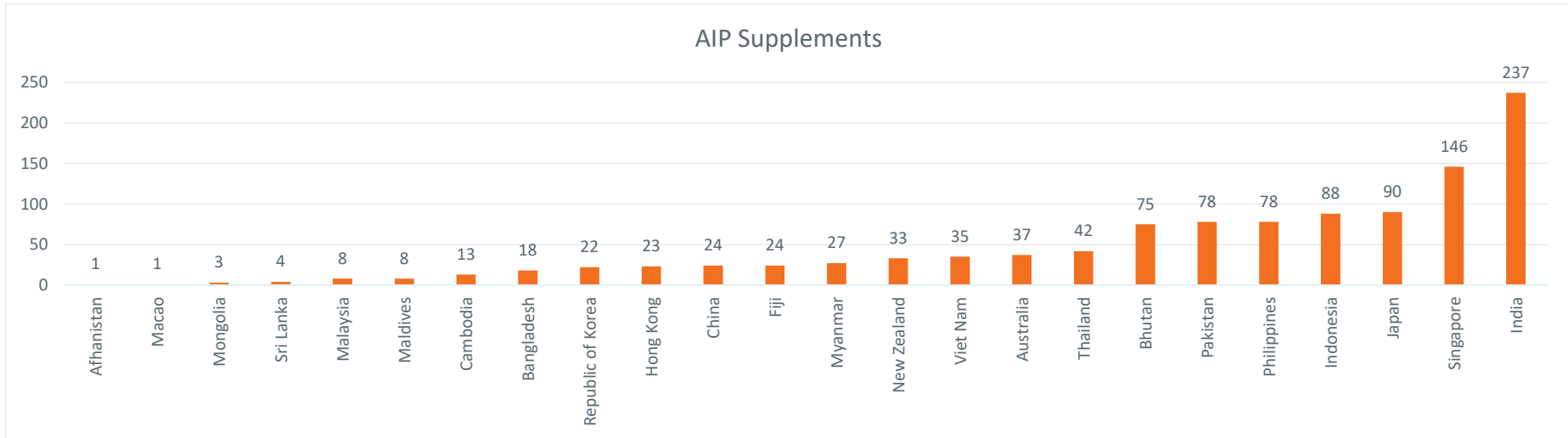
21 years





State AIP Supplement Statistics

- Total AIP SUPs: **1115** (as of March 2020)
- Oldest AIP SUP published: **1989**





AIP Supplement issues

- Inconsistency between website and NOTAM Checklist
- Incorrect link

- AIP SUPPLEMENT (25 July, 2014)
 - 1 file with 11 pages, contains 10 products:
 - AIP SUP 1-3/13
 - AIP SUP 4/13
 - AIP SUP 5/13
 - AIC 01/13
 - AIP SUP 1-4/14

INCONSISTENCY



A0073/20 NOTAMR A0050/20
 Q) /QK K K K /K/K/K/000/999/
 A) B) 2003010000 C) 2003312359 EST
 E) CHECKLIST :

 SERIES : ' A '

 YEAR= 2019: 0400 0401 0402 0403 0415 0418
 YEAR= 2020: 0009 0012 0028 0031 0037 0038 0039 0040 0041
 0059 0060 0062 0068 0069 0070 0071 0072
 LATEST PUBLICATIONS:

 AIP AMDT ISSUED : 01/20 PUBLISHED DATE 20 DEC 2019
 EFFECTIVE DATE 30 JAN 2020
 (AVBL IN THE CAA WEB SITE)
 NEXT AIP AMDT WILL : 26 MAR 2020 OR AS REQUIRED.
 BE ISSUED ON
 LIST OF AIP SUPP : 02/19 EFFECTIVE DATE 15 AUG 2019
 01/19 EFFECTIVE DATE 28 FEB 2019
 09/18 EFFECTIVE DATE 11 OCT 2018
 08/18 EFFECTIVE DATE 11 OCT 2018
 07/18 EFFECTIVE DATE 11 OCT 2018
 (AVBL IN THE CAA WEB SITE)
 LIST OF AIC ISSUED : 01/19 EFFECTIVE DATE 30 JUN 2019,
 (AVBL IN THE CAA WEB SITE)

*	AIP SUPPLEMENT 02/19, 15 Aug, 2019
*	AIP SUPPLEMENT 01/19, 28 Feb, 2019
*	AIP SUPPLEMENT 09/18, 11 Oct, 2018
*	AIP SUPPLEMENT 08/18, 11 Oct, 2018
*	AIP SUPPLEMENT 07/18, 11 Oct, 2018
*	AIP SUPPLEMENT 06/18, 19 July, 2018
*	AIP SUPPLEMENT 05/18, 19 July, 2018
*	AIP SUPPLEMENT 04/18, 19 July, 2018
*	AIP SUPPLEMENT 03/18, 29 March, 2018
*	AIP SUPPLEMENT 02/18, 29 March, 2018
*	AIP SUPPLEMENT 01/18, 01 February, 2018
	AIP SUPPLEMENT 02/17, 12 October, 2017
*	AIP SUPPLEMENT 01/17, 20 July, 2017
*	AIP SUPPLEMENT 02/15, 15 October, 2015
*	AIP SUPPLEMENT 01/15, 20 January, 2015
*	AIP SUPPLEMENT (11 December, 2014)
*	AIP SUPPLEMENT (16 October, 2014)
*	AIP SUPPLEMENT (25 July, 2014)





NOTAM Issue

– Item D)

- Year shall be not included, as it is stated in Item B) and C)
- Month should be omitted, as it is stated in Items B) and C)
- ‘AT’ should be omitted
- Dash ‘-’ shall be used instead of ‘TO’

Item D should be as follows:

D) 05-07 0000-0900 AND 08 0000-0700 (E0814/20)

D) 04 06 07 2300-0400 (B0031/20) or

***D) 04 2300-2359 05 0000-0400 06 2300-2359 07 0000-0400
2300-2359 08 0000-0400 (B0031/20)***

– Item G)

- Reference datum (AMSL or AGL) shall be inserted.

G) 2300FT AMSL or G)2300FT AGL

E0814/20 NOTAMR E0807/20

Q) /QRRCA/IV/BO/W/045/245/3205S11519E045

A) B) 2005050000 C) 2005080700

D) **2005050000 TO 2005050900**

2005060000 TO 2005060900

2005070000 TO 2005070900

2005080000 TO 2005080700

E) PEARCE AIRSPACE DUE MIL FLYING

F) 4500FT AMSL G) FL245

B0031/20 NOTAMN

Q) /QWELW/IV/BO/W/000/023/

A) B) 2005042300 C) 2005080400

D) **2020 MAY 04 AT 2300 TO 05 AT 0400**

MAY 06 AT 2300 TO 07 AT 0400

MAY 07 AT 2300 TO 08 AT 0400

E) TRAINING FLT WILL TAKE PLACE . . .

F) GND G) **2300FT.**



NOTAM Issue

– One checklist for 2 NOTAM series

- As included in 5.2.5.3.2 of PANS AIM, one NOTAM checklist shall be issued for each series.

– Item E)

- 1st part of Item E) shall be started by a keyword '**Checklist**'. As it is a single word, it cannot be abbreviated as '**CK LIST**'.
- 2nd part of Item E shall be started by a keyword '**Latest publications**'. Moreover, AIC is a separate product. Thus, 'AIP' should be omitted.
- '**01 MAY 2020**' should be omitted, as it is included in in Item B) and C)
- '**YEAR 2020**' shall be '**YEAR=2020**'
- '**SERIES A:**' shall be omitted.
- Comma ',' shall be omitted. Use space between NOTAM numbers
- Months (**April, March**) should be abbreviated like **JAN**

(A0044/20 NOTAMR A0035/20
Q) /QKKKK/K/K/K/000/999/
A) B) 2005010001 C) 2005312359 EST
E) **CK LIST 01 MAY 2020**
YEAR 2020: SERIES A:0037,0038,0039,0041,0042,0043
SERIES B: NIL

LASTEST **AIP** PUBLICATION:
AIP SUP A2/20 DATED 17 **APRIL** 2020
AIRAC AIP AMDT 2/20 DATED 27 **MARCH** 2020
AIC A1/20 DATED 01 JAN 2020.)

E) CHECKLIST
YEAR=2020 0037 0038 0039 0041 0042 0043
LASTEST PUBLICATIONS:
AIP SUP A2/20 DATED 17 APR 2020
AIRAC AIP AMDT 2/20 DATED 27 MAR 2020
AIC A1/20 DATED 01 JAN 2020



Publication Status of Certification of Aerodromes

– Appropriated Publication

- shall be published in AD 1.5 of AIP
- due to time constraints, it can be published by NOTAM. However, it shall be incorporated into AIP in accordance with PANS AIM procedure

– Item C) issue

- Item C) must contain 'PERM' for NOTAM information that will be incorporated in the AIP

– Item E) issues

- Location indicator shall be omitted from Item E, as it included in Item A)
- Aerodrome name should not be included in Item E
- Normally certificate/license number is not included in AIP. So it should not be included in Item E)

A1408/19 NOTAMN

Q) /QFAXX/IV/BO/A/000/999/

A) B) 1912190000 C) **2112182359**

E) **NAME OF AD:**

LOCATION INDICATOR:

AD LICENSE NUMBER: AL/PUBLIC/017

ISSUED BY:

VALIDITY: FROM 19/12/2019 TO 18/12/2021.

A3395/18 NOTAMN

Q) /QFAXX/IV/M /A /000/999/

A) B) **1812200700** C) **2012191830**

E) AD LICENSE.

AD NAME:

ICAO LOCATION INDICATOR:

AD LICENSE NO: AL/PUBLIC/026

DATE OF ISSUE OF LICENSE: 19 DECEMBER 2018

VALIDITY OF LICENSE: 19 DECEMBER 2020



NOTAM Issue

- Rolling over 2 years, total 9 NOTAMs published
- Application time change of 2018 is not significant in 2020
- AIC should be updated instead of publication of 9 NOTAMs
- Discussed at the AAITF/14

RESULT

A0738/20 NOTAMR A3725/19

Q) /QOAXX/IV/BO/E/000/999/2023N10547E999

A) B) **2003290241** C) **2006292359 EST**

E) REF AIC A04/18 TRANSFERRING AND ASSIGNMENT OF AMHS ADDRESSES IN WEF **29 MAR 2018 APPLICATION TIME STARTS FROM 0000 (UTC) 01 SEP 2018.**

A3725/19 NOTAMR A2825/19

A2825/19 NOTAMR A1842/19

A1842/19 NOTAMR A0518/19

A0518/19 NOTAMR A4451/18

A4451/18 NOTAMR A3258/18

A3258/18 NOTAMR A1925/18

A1925/18 NOTAMR A0603/18

A0603/18 NOTAMN

Q) /QOAXX/IV/BO/E/000/999/2023N10547E999

A) B) 1803290000 C) 1806292359 EST

E) REF AIC A04/18 TRANSFERRING AND ASSIGNMENT OF AMHS ADDRESSES IN WEF 29 MAR 2018 ADJUSTMENT APPLICATION TIME STARTS FROM 0000 (UTC) 01 SEP 2018.



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UNITING AVIATION



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(SAM) Office
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Dakar

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North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU