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WORKING PAPER

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Fourth NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/4)
Miami, United States, 21 – 24 August 2018

Agenda Item 4: Follow-up, Performance Evaluation and Monitoring of the CAR Regional Performance Based Air Navigation Implementation Plan
4.1 Progress Reports of the Task Forces of the ANI WG

AIM LICENSING

(Presented by AIM/TF Rapporteur)

EXECUTIVE SUMMARY

This paper presents the suggestions and recommendations for the proper evaluation of converting and/or requesting for Aeronautical Information Service personnel as well as ATS Reporting Office personnel to become licensed personnel, in order to have adequate, skilled and certified persons carrying out the tasks. Therefore, proposal to bring amendment to Annex 1 is requested.

Action:	Suggested Action is described in section 2.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency
<i>References:</i>	<ul style="list-style-type: none">• ICAO Annex 1 – <i>Personnel Licensing</i>

1. Proposal of amendment to Annex 1 – *Personnel Licensing* chapter 4:

4.9 Aeronautical Information Service personnel / ATS Reporting Officer personnel

Note.— *Guidance on the qualifications to be met by these personnel can be found in Circular 211, Aerodrome Flight Information Service (AFIS).*

4.9.1 Requirements for the issue of the license

4.9.1.1 Age

AIS / ARO personnel: The applicant shall be not less than 18 years of age.

4.9.1.2 Knowledge

The applicant shall have demonstrated a level of knowledge appropriate to the privileges granted to the holder of a flight operations officer license, in at least the following subjects:

General knowledge

- a) air traffic services provided within the State;

Operational procedures

- b) radiotelephony procedures; phraseology; telecommunication network;
- c) minimum English proficiency level 4;

Rules and regulations

- d) rules and regulations applicable to the aeronautical station operator; and

Telecommunication equipment

- e) principles, use and limitations of telecommunication equipment in an aeronautical station.

Air law

- f) rules and regulations relevant to the holder of a flight operations officer license;
- g) f) appropriate air traffic services practices and procedures;

Aircraft general knowledge

- h) g) principles of operation of aeroplane engines, systems and instruments;
- i) operating limitations of aeroplanes and engines;
- j) minimum equipment list;

Flight performance calculation, planning procedures and loading

- k) effects of loading and mass distribution on aircraft performance and flight characteristics; mass and balance calculations;
- l) operational flight planning; fuel consumption and endurance calculations; alternate aerodrome selection procedures; en-route cruise control; extended range operation;
- m) preparation and filing of air traffic services flight plans;
- n) basic principles of computer-assisted planning systems;

Human performance

- o) human performance relevant to dispatch duties, including principles of threat and error management;

Note.— Guidance material to design training programs on human performance, including threat and error management, can be found in the Human Factors Training Manual (Doc 9683).

Meteorology

- p) aeronautical meteorology; the movement of pressure systems; the structure of fronts, and the origin and characteristics of significant weather phenomena which affect take-off, en-route and landing conditions;
- q) interpretation and application of aeronautical meteorological reports, charts and forecasts; codes and abbreviations;
- r) use of, and procedures for obtaining, meteorological information;

Navigation

- s) principles of air navigation with particular reference to instrument flight;
- t) *Operational procedures*
- u) use of aeronautical documentation;
- v) operational procedures for the carriage of freight and dangerous goods;
- w) procedures relating to aircraft accidents and incidents; emergency flight procedures;
- x) p) procedures relating to unlawful interference and sabotage of aircraft;

Principles of flight

- y) principles of flight relating to the appropriate category of aircraft; and

Radio communication

- z) procedures for communicating with aircraft and relevant ground stations.

4.9.1.3 Experience**4.9.1.3.1**

The applicant shall have gained the following experience:

- a) a one year of service in any one or in any combination of the capacities specified in 1) to 3) inclusive, provided that in any combination of experience the period serviced in any capacity shall be at least 6 months:
 1. a flight crew member in air transportation; or
 2. a meteorologist in an organization dispatching aircraft in air transportation; or
 3. an air traffic controller; or
 4. a technical supervisor of flight operations officers or air transportation flight operations systems;

or

- b) satisfactorily completed an approved training course within the 12-month period immediately preceding application, and have served satisfactorily under a qualified aeronautical station operator for not less than two months;

or

- c) have satisfactorily completed a course of approved training and served under a qualified aeronautical information officer for not less than two months during the 12-month period immediately preceding application.

4.9.1.3.2

The applicant shall have served under the supervision of a flight operations officer for at least 90 working days within the six months immediately preceding the application.

4.9.1.4 Skill

The applicant shall have demonstrated the ability to:

a) make an accurate and operationally acceptable weather analysis from a series of daily weather maps and weather reports; provide an operationally valid briefing on weather conditions prevailing in the general neighbourhood of a specific air route; forecast weather trends pertinent to air transportation with particular reference to destination and alternates;

b) determine the optimum flight path for a given segment, and create accurate manual and/or computer generated flight plans;

c) provide operating supervision and all other assistance to a flight in actual or simulated adverse weather conditions, as appropriate to the duties of the holder of a flight operations officer license; and

d) recognize and manage threats and errors.

e) operate the telecommunication equipment in use; and

f) transmit and receive radiotelephony messages with efficiency and accuracy.

4.9.1.5 Education entree level

The applicant shall have a minimum of the following:

ARO personnel: Graduate degree or equivalent or higher

AIS personnel: Bachelors' degree or equivalent or higher

Note.— Guidance material on the application of threat and error management is found in the Procedures for Air Navigation Services — Training (Doc 9868, PANS-TRG), Chapter 3, Attachment C, and in Part II, Chapter 2, of the Human Factors Training Manual (Doc 9683).

4.9.2 Privileges of the holder of the license and the conditions to be observed in exercising such privileges.

Subject to compliance with the requirements specified in 1.2.5 and 1.2.9, the privileges of the holder of an AIM (AIS, ARO or FPL) Officer license shall be to serve in that capacity with responsibility for each area for which the applicant meets the requirements specified in Annex 15, and be familiar with all pertinent and current information regarding the types of equipment and operating procedures used at that aeronautical station.

2. Suggested Action

2.1 The Meeting is invited to:

Propose amendments to Annex 1- *Personnel Licensing* chapter 4, for contents included in this working paper.