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Agenda Item 4: Air Navigation Matters
4.1 Global/Regional Air Navigation Developments

ELECTRONIC REGIONAL AIR NAVIGATION PLAN (eANP) DEVELOPMENT

(Presented by the Secretariat)

| EXECUTIVE SUMMARY | |
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| This paper presents the progress achieved in the development of the new regional electronic air navigation plan (eANP) template, amendment procedures and the action plan for its electronic availability and maintenance online. | |
| Action: | The suggested actions are presented in Section 4 |
| <i>Strategic Objectives:</i> | <ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency• Environmental Protection |
| <i>References:</i> | <ul style="list-style-type: none">• Doc 8733 — <i>Air Navigation Plan — Caribbean and South American Regions.</i> |

1. Introduction

1.1 The Council decided on 26 February 1997, that the regional Air Navigation Plans (ANPs) be published in two volumes: a Basic ANP with stable plan material and a Facilities and Services Document (FASID). The last change to the procedures for amendment of ANPs Basic document was approved by the Council on 25 February 1998.

1.2 The Twelfth Air Navigation Conference (AN-Conf/12) approved Recommendation 6/1 — *Regional performance framework – planning methodologies and tools* to align the ANSPs with the fourth edition of the *Global Air Navigation Plan* (GANP) (Doc 9750).

1.3 The Secretariat established a Working Group (eANP WG), composed of a representative from each Regional Office and ICAO Headquarters, to make proposals for changes to the regional ANPs including a new structure, format and content.

1.4 The eANP WG reviewed the limitations of the current regional ANPs and agreed that they could be updated and approved based on the new developments in air navigation, including the outcome of the AN-Conf/12 and the fourth edition of the revised GANP.

2. Development of the New Electronic Regional Air Navigation Plan (eANP) Template

2.1 The eANP WG had two face-to-face meetings (Paris, France, 4-8 February 2013 and Montréal, Canada, 18-22 November 2013), six teleconferences of its Steering Committee (25 March, 3 June, 27 August and 31 October 2013 and 26 March and 16 April 2014) and one teleconference of the whole WG members (5 September 2013). Most of the work was conducted through emails among the Secretariat WG members. The eANP WG submitted the final regional ANP template on 22 April 2014.

2.2 During 2013 and 2014, the Secretariat submitted papers at Planning and Implementation Regional Groups (PIRGs) including GREPECAS and other regional air navigation related meetings in order to keep States informed of the new ANP template. States expressed their support for this initiative.

2.3 A more detailed description of each eANP Volume, the objectives of the eANP, the amendment process to this plan, the web-platform to support its use, and the Action Plan for the Development/approval of the eANP are presented in the **Appendix**.

2.4 The first draft for Volume I and II are available for the designated PoCs. Volume III will be drafted by Second Semester 2015, reflecting the ASBU modules adopted by the CAR and SAM Regions.

Amendment of Documents Related to the Regional Air Navigation Plan

2.5 Evaluation of the ICAO Documents that refer to the Regional ANP: Upon the approval of the new ANP template, consequential amendments would be required to existing ICAO documentation referring to Regional ANPs to ensure harmonization. It is expected that the Secretariat would conduct this work.

eANP Development Status in NAM/CAR/SAM Regions

2.6 Currently, and regarding Doc 8733 – *Air Navigation Plan Caribbean and South American Regions*, the first eANP stage has been conducted with the inclusion of the existing data in the eANP for Volumes I and II, and for the first semester of 2015 the NACC and SAM Regional Offices will make the contents update (requirements) for Volumes I and II and the filling of Volume III. The approval process for Volume I and II will be conducted by 15 August 2015.

2.7 For the NAM Region, ICAO is in process of creating a Regional Plan basically consisting of Canada and United States, having made a first planning meeting with the NAM States agreeing on a draft for Volumes I and III, and to prepare a draft for Volume II for 2016. The dates for these works will be defined later.

2.8 In view of the above and to streamline the development and filling process of the CAR/SAM Regions e-ANP, from the DGAC/CAP/98 and the C/CAR/DCA/14 Meetings, States from the Central American and the Central Caribbean Regions had designated Point of Contact (PoCs) for this purpose. For the E/CAR Region Sint Maarten and Trinidad and Tobago designated their PoCs.

2.9 ICAO NACC Office submitted the current draft of the eANP to all designated PoCs for review and comments.

3. Conclusion

3.1 The eANPs will link the global strategy proposed in the GANP with the requirements and air navigation regional priorities, and will allow to follow-up on the implementation and the achievements proposed by the ASBU.

4. Suggested Actions

4.1 The Meeting is invited to:

- a) take note of the development, amendment procedures and action plan proposed for the eANPs;
- b) through the designated PoCs to conduct the necessary revision to facilitate the development and approval of the eANP; and
- c) agree any other action as deemed appropriate by the Meeting.

APPENDIX

DESCRIPTION OF THE NEW ELECTRONIC REGIONAL AIR NAVIGATION PLAN (EANP) TEMPLATE

Consideration: The regional ANPs are still needed and represented the bridge between, from one side, the global provisions in the ICAO Standards and Recommended Practices (SARPs) and the GANP, and from the other side, the States' national plans and current implementation:

- a) the ANPs have so far been developed to set forth, in detail, the facilities, services and procedures required for international air navigation within a specified region(s). They also contained planning and guidance material. It was noted that based on a Council decision (Eighth Meeting of its 131st Session refers), the monitoring of the status of air navigation facilities and services was not part of the scope and objectives of the current ANP;
- b) taking into account Recommendation 1/2 - *Implementation* of the AN-Conf/12, as well as the new developments related to the performance based approach, the Aviation System Block Upgrades (ASBUs) methodology, etc., it was agreed that the new ANP should also include elements related to the monitoring of the status of implementation, at least related to the ASBU modules;
- c) a clear separation between the mandatory requirements and the optional/selective or preferable measures based on the ASBU methodology should be included in the ANP; and
- d) the need to identify the elements included in the current ANPs which were no longer required.

The objectives and purpose of regional Air Navigation Plans (ANPs) are the following:

- the ANPs define the planning and implementation of air navigation systems within a specified region(s), in accordance with the agreed global and regional planning framework. They are developed to meet those needs of specific areas not covered in the worldwide provisions. The development and maintenance of the ANPs is undertaken by ICAO PIRGs with the assistance of the ICAO Secretariat
- the ANPs are used as a repository document for the assignment of responsibilities to States for the provision of air navigation facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300)
- the ANPs contain requirements related to the facilities and services to be implemented by States in accordance with regional air navigation agreements. The procedural parts of ANPs related with procedures are published in the *ICAO Regional Supplementary Procedures* (SUPPs) (Doc 7030)
- the ANPs contain provisions that States can follow in programming the provision of their air navigation facilities and services, with the assurance that facilities and services furnished in accordance with the plan will form with those of other States an integrated system adequate for the foreseeable future

- the ANPs may serve as a basis for air navigation service charges which are levied for services provided or made available to users, in accordance with *ICAO's Policies on Charges for Airports and Air Navigation Services* (Doc 9082) and *ICAO Manual on Air Navigation Services Economics* (Doc 9161)
- the ANPs support the performance-based approach to planning adopted by ICAO to measure the efforts made by States in implementing the agreed requirements.

1. **Format and Table of Contents of the eANP:** ANP data related to air navigation facilities and services can be classified as stable, dynamic or flexible. In this regard, it was agreed that the new ANP should be composed of three volumes:

- a) Volume I should contain stable plan elements, the amendment of which require approval by the Council, related to:
- ✓ assignment of responsibilities
 - ✓ mandatory requirements subject to regional agreement; and/or
 - ✓ additional requirements specific to the region which are not covered in SARPs.
 - ✓

Note. — The following is a non-exhaustive list of such elements: Flight Information Regions (FIR) boundaries (table and charts), Search and Rescue Regions (SRR) boundaries (table and charts), and Volcanic Ash Advisory Centres (VAAC), Tropical Cyclone Advisory Centres (TCAC), and Volcano Observatories (VO).

- b) Volume II should contain dynamic plan elements, the amendment of which does not require approval by the Council (approval is by regional agreement involving the relevant PIRG), related to:
- ✓ assignment of responsibilities;
 - ✓ mandatory requirements subject to regional agreement; and/or
 - ✓ additional requirements specific to the region which are not covered in SARPs

Note. — The following is a non-exhaustive list of such elements: major traffic flows; ATS route network; meteorological watch offices (MWO); secondary surveillance radar (SSR) codes; five-letter name-codes; VOLMET broadcasts.

- c) Volume III should contain dynamic/flexible plan elements providing implementation planning guidance for air navigation systems and their modernization taking into consideration emerging programmes such as the ASBUs and associated technology roadmaps described in the GANP. The ANP Volume III would also include appropriate additional guidance, particularly with regard to implementation, to complement the material contained in the ANP Volumes I and II. The amendment of Volume III would not require approval by the Council (approval of Part II is under the responsibility of the relevant PIRG).

2. **Description of the contents of the eANP:** The general structure of the technical Parts of Volumes I and II (Airport operator (AOP), Communications, Navigation and Surveillance (CNS), Air Traffic Management (ATM), Meteorology (MET)) Search and Rescue (SAR) and Aeronautical Information Management (AIM)) would consist of:

- a) introduction;
- b) general regional requirements; and
- c) specific regional requirements.

3. It is to be noted that the Section “*General Regional Requirements*” would be harmonized for all regions. Accordingly, an amendment of the provisions (text and table templates) in “*General Regional Requirements*” would lead to amendment of the eANP of all regions.

4. It is highlighted that, the Statement of Basic Operational Requirements and Planning Criteria (BORPC) is not included in the new eANP, as with the revised GANP, because it repeated information published in other ICAO publications and was considered duplication as well as obsolete. The BORPC was replaced with the “General” and “Specific” requirements in Volumes I and II that include the relevant planning principles of BORPC to be retained in the ANP. With regard to the table/database on ATS Routes, it was agreed that the PIRGs would decide on the need for a table/database and/or Chart on ATS Routes for their regions and on the associated mechanisms for maintaining this table/database under Specific Regional Requirements of Part IV – ATM of Volume II.

5. The information contained in Volume III would be related to implementation monitoring, planning and/or guidance. Volume III will contain the information agreed in the NAM/CAR Regional Performance Based Air Navigation Implementation (RPBANIP), regarding the regional priorities, adopted ASBU modules, indicators and targets. The Volume III structure will be simple and will consist of:

- a) Parte 0 – Introduction;
- b) Parte I – General Planning Aspects (GEN); and
- c) Parte II – Air Navigation System Implementation.

6. A table for inclusion in Part I of Volume III to define a minimum set of implementation indicator(s), based on the SMART criteria (specific, measurable, achievable, relevant and time bound), for each of the 18 ASBU Block 0 modules and to include other information as deemed necessary, for use in all regions. The details related to the monitoring of the ASBU modules, including the design of supporting enablers (tables/databases) would be left to the regions/PIRGs.

Procedure for amendment of the eANP

7. A revised procedure for amendment of the eANP using a web-based platform is proposed. It is to be noted that the current Council-approved procedure for amendment of the Basic ANP (with minor changes) would be applicable to the new Volume I (approval by Council) and the current amendment procedure of the Facilities and Services Implementation Document (FASID) (with minor changes) would be applicable to Volume II (approval by regional agreement involving the relevant PIRG). The management and amendment of Volume III would be under the responsibility of the PIRGs. Nevertheless, the amendment of Parts 0 and I of Volume III should go through an inter-regional coordination mechanism and Part II would require approval under the responsibility of the relevant PIRG.

8. It is highlighted that the endorsement of the ANP template, which includes the new procedure of amendment of the eANP, is the most important milestone in this process. The approval of the eANP of each region, based on the approved ANP template, would be accomplished with the transfer of the corresponding information from current volumes Basic and FASID to the new volumes I and II in accordance with the procedures for amendment.

Development of the eANP on a web-based platform

9. ***Web-based platform for eANP:*** In view of the agreed format of the eANP, it is considered that the current ANP application under SPACE (iSTARS 2.0 website) could be used as the basis for the development of the eANP web-based platform with some improvements.

10. Focal points designated by States and international organizations would be given access to the ANP web-based platform to develop and submit proposals for amendments (PfAs) to the ANP of each region concerned as per corresponding procedures for amendment and the public would be given read-only access to the ANPs.

11. The access to the eANP through the web-based platform would facilitate the consultation of the ANPs of all regions, thus providing a global view of air navigation planning. The new approach in Volumes II and III of the eANP would allow significant flexibility to States to plan while increasing the possibility to enhance coordination, particularly for States in the interface area with adjacent regions.

Action plan for *Further Development/Approval of the eANP*

12. Subject to approval by the ICAO Council of the new ANP Template, the development/approval of the eANP would be in accordance with the following action plan:

| ANP volume | eANP activity/task | Responsible | Completion date |
|-------------------|--|----------------------|------------------------|
| Vol I, II & III | Inclusion of existing data on eANP | Regional Offices | September 2014 |
| Vol I, II & III | Agreement on the content of the eANP | PIRGs/States | Mid 2015 |
| Vol I | Approval of Volume I of eANPs by the Council | Regional Offices/ANB | End 2015 |

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| Vol II | Approval of Volume II of eANPs by regional agreement involving the relevant PIRG | Regional Offices/PIRGs | End 2015 |
| Vol III | Development and approval of Part II under PIRG responsibility. Inclusion of Volume III on web-based platform. | Regional Offices/ PIRGs/ANB | End 2015 |
| Consequential amendments | Amendments to existing ICAO documentation related to ANPs to ensure harmonization, including the Regional Office Manual, and review of the applicability of the Uniform methodology for the identification, assessment and reporting of air navigation deficiencies to the new ANP | ANB | Mid 2015 |

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