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(NACC/DCA/09)**

Port-of-Spain, Trinidad and Tobago, 25 to 27 June 2019

Agenda Item 8: Environmental Protection Matters

ICAO RECENT DEVELOPMENTS ON ENVIRONMENT – CLIMATE CHANGE

(Presented by the ICAO Secretariat)

EXECUTIVE SUMMARY

This paper provides information on the status of implementation of the ICAO Assembly Resolutions A39-2 and A39-3 and on activities related to environmental protection in the NACC Region since the 39th Session of the Assembly, including the ICAO States Action Plan initiative, and the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) implementation.

Action:	The action required by the Conference is in paragraph 5.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Environmental Protection
<i>References:</i>	<ul style="list-style-type: none">• Assembly Resolutions A39-1, A39-2 and A39-3

1. Introduction

1.1 This paper provides information on the status of implementation of the ICAO Assembly Resolutions A39-2 and A39-3 and on activities related to environmental protection, including the States Action Plans initiative, and CORSIA implementation.

2. States Action Plans on CO₂ Emissions Reduction Activities for International Aviation

2.1 By April 2019, 111 Member States have voluntarily submitted action plans to ICAO. These successful results demonstrate the high level of interest and engagement of ICAO Member States in this initiative, as well as the impact of ICAO's assistance and capacity-building activities. At the last Assembly in October 2016, States were invited to update their plans by June 2018 and every three years thereafter. The submission of an action plan and its subsequent updates are necessary to ensure that the information included is valid overtime.

2.2 In the NACC region, 13 from the 22 States have developed an Action Plan on CO₂ emissions reduction and submitted to ICAO. Out of the 13 States, 7 States have submitted an updated

plan. Out of the 22 States, 15 have nominated a focal point for the States Action Plan related activities (see the table below).

NACC State	Action Plan Submitted	Action Plan Updated
Antigua and Barbuda		
Bahamas		
Barbados		
Belize	x	
Canada	x	x
Costa Rica	x	
Cuba	x	x
Dominica		
Dominican Republic	x	x
El Salvador	x	x
Grenada		
Guatemala	x	
Haiti		
Honduras	x	
Jamaica	x	
Mexico	x	x
Nicaragua	x	
Saint Kitts and Nevis		
Saint Lucia		
Saint Vincent and the Grenadines		
Trinidad and Tobago	x	x
United States	x	x

2.3 With respect to the ICAO State Action Plan Buddy Programme, Assembly Resolution A39-2 further encouraged States that have already submitted action plans to share information contained in the action plans and build partnerships with other Member States that have not prepared action plans. To date, seven partnerships have been established under the ICAO State Action Plan Programme, one of which involves a State in the NACC Region.

3. Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)

3.1 The 39th Session of the ICAO Assembly adopted the CORSIA, as part of a broader package of mitigation measures, aiming at addressing an increase in total CO₂ emissions from international aviation above the 2020 levels. The scheme has a phased implementation approach, with a pilot phase from 2021 through 2023; a first phase from 2024 through 2026; and a second phase from 2027 through 2035.

3.2 The Assembly requested the ICAO Secretariat to make public on the ICAO website updated information on the States that volunteer to participate in CORSIA's pilot phase¹. As of 25 April

¹ <https://www.icao.int/environmental-protection/CORSIA/Pages/state-pairs.aspx>

2019, 79 States have announced their intention to voluntarily participate in CORSIA from its outset, including 8 States from the NACC region. 19 NACC States have nominated a CORSIA Focal Point.

3.3 In June 2018, the ICAO Council adopted the First Edition of Annex 16 – Environmental Protection, Volume IV - CORSIA that contains Standards and Recommended Practices (SARPs) for the implementation of CORSIA. Subsequently, the State letter on the adoption of the First Edition of Annex 16, Volume IV was issued on 20 July 2018. The Annex 16, Volume IV became effective on 22 October 2018, and has become applicable since 1 January 2019.

3.4 In addition, the First Edition of the ICAO Environmental Technical Manual (ETM), Volume IV – Procedures for Demonstrating Compliance with the CORSIA (Doc 9501), was published in July 2018. The ETM promotes uniformity of implementation of the technical procedures of Annex 16, Volume IV by, among others, providing guidance to States, aeroplane operators and other relevant parties regarding the intended meaning of the Standards in the First Edition of Annex 16, Volume IV.

3.5 Both, Annex 16, Volume IV and Doc 9501, Volume IV were made available in all ICAO languages to all States through the public ICAO CORSIA website: www.icao.int/corsia.

3.6 In conjunction, ICAO developed the CORSIA CO₂ Estimation and Reporting Tool (CERT). The ICAO CORSIA CERT has been developed for, and made available to, aeroplane operators to support the monitoring and reporting of their CO₂ emissions on the public ICAO CORSIA website. The objective of the tool is to simplify the estimation and reporting of CO₂ emissions from international flights for aeroplane operators with low levels of activity, and help these operators fulfil their monitoring and reporting requirements under CORSIA.

3.7 The CAEP/11 meeting made progress on the CORSIA Implementation Elements. A breakthrough agreement was achieved on the means to calculate and claim the benefits accrued from the use of sustainable aviation fuels within the context of CORSIA. The agreement included the default values, and the methodologies for calculating actual values, for the life-cycle CO₂ emissions reduction benefits of such fuels from different feedstocks. CAEP has also agreed on the requirements for Sustainability Certification Schemes (SCS) and a process to evaluate and recommend a list of eligible SCS, which will certify fuels against the CORSIA sustainability criteria. In addition, CAEP delivered a recommendation on the rules of procedure for the ICAO Council Technical Advisory Body (TAB), which will evaluate the eligibility of emissions units for use in CORSIA.

3.8 The functional requirements of the CORSIA Central Registry (CCR) were also agreed by the ICAO Council and the Secretariat has selected a vendor who will develop the CCR by end of 2019 for operationalization from early 2020.

3.9 In cooperation with the GAT office, the ICAO training course on CORSIA verification has also been developed, mainly for verification bodies regarding how to verify CO₂ Emissions Reports under CORSIA. The validation of this training course took place in January 2019, and the course is now officially delivered in multiple GAT training centres around the world.

3.10 ICAO organized regional workshops on CORSIA from March to April 2019 in five venues. The objective of these two-day regional workshops was to provide further information on the upcoming CORSIA implementation requirements. Particular focus of the regional workshops was on any pending issues regarding the monitoring of CO₂ emissions in 2019, including the approval of Emissions Monitoring Plans by States by 30 April 2019, as well as on reporting and verification of CO₂ emissions from international aviation to support States in complying with the related provisions of the CORSIA

SARPs by early 2020. The Regional workshop for the NACC and SAM Regions was hosted by Paraguay in Asunción, from 21 to 22 March 2019².

3.11 According to the Annex 16, Volume IV as adopted by the Council, the priority of actions for the CORSIA implementation from 2018 to 2019 is to start the monitoring of CO₂ emissions by aeroplane operators in accordance with their Emissions Monitoring Plans approved by States, and the establishment of associated national regulatory frameworks by States to comply with Annex 16, Volume IV for the CORSIA implementation. In 2020, the next priority of actions are related to verification of 2019 emissions data by third-party verification bodies, and reporting of 2019 emissions data from aeroplane operators to States, and from States to ICAO.

3.12 The table in the **Appendix** illustrates the CORSIA Action Checklist for States and aeroplane operators in 2019 and 2020:

4. Assistance, Capacity-building and Training for the CORSIA (ACT-CORSIA)

4.1 To better support its Member States, ICAO has developed a new capacity building programme called ACT-CORSIA (Assistance, Capacity-building and Training for the CORSIA) that was endorsed by the Council in June 2018. The Council emphasized the importance of a coordinated approach under ICAO ACT-CORSIA programme to harmonize and bring together all relevant actions and promote coherence to capacity building efforts. The Council also requested that any bilateral or multilateral partnerships among States should be coordinated with ICAO, so that the global progress of such coordinated efforts would be monitored.

4.2 Under the ICAO ACT-CORSIA programme, buddy partnerships among States have been established across the Regions. Under the first phase of ACT-CORSIA, technical experts provided by donor States worked together with the CORSIA Focal Points of recipient States to provide on-site training, and closely followed-up on the preparation and implementation of the recipient States' CORSIA MRV system (in particular on the development and approval of Emissions Monitoring Plans, as well as on the establishment of national regulatory frameworks).

4.3 To ensure the consistency of assistance provided and relevant materials used through the CORSIA Buddy Partnerships, technical experts from donor States were trained and coordinated by ICAO for undertaking on-site training at recipient States. By 8 March 2019, CORSIA Buddy Partnerships across various ICAO Regions were established, involving 15 donor States and 96 recipient States (including 4 donor States and 13 recipient from the NACC Region). The most up-to-date information regarding on-site training activities by donor State experts with recipient States is provided on the ICAO CORSIA website, enabling full transparency of the assistance progress under the ICAO umbrella³. The table in the Appendix illustrates the CORSIA buddy partnerships under the NACC Region.

4.4 Building upon this successful and coordinated approach under ICAO, the second phase of the CORSIA buddy partnerships has been established, with a focus on reporting and verification under Annex 16, Volume IV. Another round of training of technical experts from donor States was held from 13 to 14 May 2019, aiming for the starting of on-site training at recipient States under the second phase of CORSIA buddy partnerships from July 2019. More States from the NACC region are encouraged to participate in the CORSIA buddy partnerships to ensure the timely implementation of CORSIA by all States.

² www.icao.int/Meetings/RS2019/Pages/default.aspx

³ www.icao.int/environmental-protection/CORSIA/Pages/CORSIA-Buddy-Partnerships.aspx

5. Action by the Meeting

5.1 The meeting is invited to:

- a) note the information provided;
- b) take note of information in paragraph 2, and encourage those States that have not yet developed or updated their States' Action Plans with quantified data to do so as soon as possible;
- c) invite States to voluntarily participate in the pilot phase of the CORSIA from 2021; and
- d) recognize the urgency of actions in 2019 and 2020 and by States and aeroplane operators for the implementation of CORSIA as described in paragraph 3, and encourage States to participate in the ICAO ACT-CORSIA capacity building activities, including the CORSIA buddy partnerships as described in paragraph 4, recognizing the importance of a coordinated approach under the umbrella of ICAO.

APPENDIX

CORSIA ACTION CHECKLIST

TIMELINE FOR ACTION	STATE	AEROPLANE OPERATOR
2019	1 January/ 31 December	○ Monitor 2019 CO ₂ emissions from international flights in accordance with the Emissions Monitoring Plan
	28 February	○ Submit an Emissions Monitoring Plan to your State for approval
	30 April	○ Approve the aeroplane operator's Emissions Monitoring Plan
	30 April	○ Submit lists of aeroplane operators attributed to your State and verification bodies accredited in your State to ICAO
	31 May	○ Obtain and use ICAO document entitled "CORSIA Aeroplane Operator to State Attributions"
2020	1 January - 31 December	○ Monitor 2020 CO ₂ emissions from international flights in accordance with the Emissions Monitoring Plan
	1 January - 31 May	○ Compile 2019 CO ₂ emissions data ○ Perform an internal pre-verification of the 2019 Emissions Report ○ Consult ICAO document "CORSIA Central Registry (CCR): Information and Data for Transparency" in order to identify an accredited verification body for the verification of the Emissions Report for 2019 ○ Engage a verification body for the verification of the 2019 Emissions Report
	By 31 May	○ Submit the verified 2019 Emissions Report and associated Verification Report to your State
	1 June - 31 August	○ Conduct an order of magnitude check of the aeroplane operator's verified 2019 Emissions Report
	30 June	○ Notify ICAO of your State's participation in CORSIA offsetting in year 2021 ○ Notify ICAO which option your State has selected for calculating the aeroplane operator's offsetting requirements during the 2021-2023 period
	1 August	○ Obtain and use the ICAO document entitled "CORSIA States for Chapter 3 State Pairs"
	31 August	○ Submit 2019 CO ₂ emissions data to ICAO
	30 November	○ Submit updates to the list of aeroplane operators attributed to your State and updates to the verification bodies accredited in your State to ICAO
	31 December	○ Obtain and use the ICAO document entitled "CORSIA Aeroplane Operator to State Attributions"

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