



International Civil Aviation Organization

**MIDANPIRG CNS/ATM/IC Sub-Group
(CNS/ATM/IC SG)**

**Sixth Meeting
(Cairo, Egypt, 31 January – 02 February 2012)**

Agenda Item 4: Regional Air Navigation Planning and Implementation Issues

STATE ACTION PLANS FOR CO₂ EMISSION REDUCTION WORKSHOP

(Presented by the secretariat)

SUMMARY

This paper summarizes the outcome of the workshop on States action plans for CO₂ emission reduction which will allow States to identify their basket of measures and assistance needs, and allow ICAO to monitor the progress towards reaching the global goals and address specific needs of States towards the provision of technical assistance.

Action by the meeting is at paragraph 3.

REFERENCES

- Workshop Summary Report

1. INTRODUCTION

1.1 The 37th Session of the ICAO Assembly that took place from 28 September to 8 October 2010 adopted Resolution A37-19: *Consolidated statement of continuing ICAO policies and practices related to environmental protection – Climate change*. The resolution among other tasks *Invites* those States that choose to prepare their action plans to submit them to ICAO as soon as possible preferably by the end of June 2012 in order that ICAO can compile the information in relation to achieving the global aspirational goals, and the action plans should include information on the basket of measures considered by States, reflecting their respective national capacities and circumstances, and information on any specific assistance needs; and also *Requests* the Council to provide guidance and other technical assistance for the preparation of States' action plans prior to the end of June 2012, in order for States to conduct their necessary studies and to voluntarily submit their action plans to ICAO.

1.2 Consistent with ICAO Assembly Resolution A37-19, a workshop on State Action Plans for CO₂ emission reduction was organized by the ICAO Secretariat and hosted by UAE GCAA from 16 to 20 June 2011 to support Middle East States in the preparation and submission of their action plans to reduce CO₂ emissions from international aviation.

1.3 The workshop was attended by 31 participants from 9 States (Egypt, Jordan, Iraq, Kuwait, Lebanon, Qatar, Saudi Arabia, Sudan and the UAE) and two int'l and regional organizations (IATA and AACO).

2. DISCUSSION

2.1 ICAO presentations covered the issues detailed in the agenda at **Appendix A** to this working paper, and provided the participants with information to enable them to develop their State action plan. This includes information on the relevant ICAO guidance material, information on how to develop a State action plan and a hands-on training session on the ICAO interactive action plan website which will allow States to submit their action plan electronically to ICAO for reporting and following up on their actions.

2.2 States were urged to appoint persons who would be focal points, charged with coordinating activities related to the development of action plans for CO2 emission reduction in their respective States.

2.3 There was some discussion related to ICAO mandate in addressing the impact of aviation on the climate. Some participants requested that ICAO be more proactive in "protecting" developing countries from the proliferation of regional measures. Others thought that the action plans exercise would increase the burden on air carriers, especially in light of increasing requests from IATA, the European Union, India and others.

2.4 An inquiry on why it is not possible to update the action plan after its final submission. It was highlighted by ICAO that this is a temporary limitation in order to allow the ICAO Secretariat to compile the information submitted and to prepare appropriate documentation for the consideration by the 38th Session of the Assembly. Modifications to actions plans and follow up on implementation will be made possible at a later stage.

2.5 Participants from States suggested that ICAO work closely with industry in the development and commercialization of biofuels. The Secretariat reiterated that the ICAO Assembly and Council are helping States to reach consensus on dealing with climate change while ensuring the sustainable development of international aviation and to foster the development and commercialization of biofuels through the Global Framework on Aviation and Alternative Fuels (GFAAF).

2.6 Some participants expressed the view that the examples used during the workshop were very simplistic and did not reflect the complex working practices of airlines. It was clarified that these examples were purposefully made simple in order to illustrate the process to be followed and also to support those CAAs that have limited resources.

2.7 Many participants were concerned about the Emission Trading Scheme (ETS) planned measures by EU and requested ICAO intervention to alleviate the situation.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) follow up with respective department to nominate a focal point and inform ICAO accordingly; and
- b) submit the State action plans before June 2012.

APPENDIX A

June 2011



International Civil Aviation Organization

ICAO Regional Hands-on Training Workshop for States' Action Plans on CO₂ Emissions Reduction Activities
Dubai 14 to 16 June 2011

PROGRAMME

DAY ONE
14 June 2011

08:00 – 09:00	Registration
09:00 – 09:30	Opening Ceremony <ul style="list-style-type: none"> ➤ Welcome address by Mr. Omar Bin Galeb Deputy Director General of United Arab Emirates General Civil Aviation Authority (GCAA) ➤ Welcome address by Mr. Jehad Faqir ICAO Deputy Regional Director, Cairo ➤ Presentation on Workshop objectives and expectations by Mustapha Chaouki, ICAO HQ
09:30 – 10:45	<i>Participants' introductions</i> Part 1 of the guidance <ul style="list-style-type: none"> ➤ Purpose, scope and contents of the action plan ➤ Why States need an Action Plan ➤ Different stakeholders involved ➤ The planning process and the importance of the focal point of the State in monitoring the progress made by the State and communicating it to ICAO ➤ Top down and bottom up approaches ➤ How ICAO can help and facilitate in the Action Plan process ➤ Present the ICAO Focal Point for the region
10:45 – 11:00	Question and answer
11:00 -11:15	Coffee Break
11:15- 11:30	<ul style="list-style-type: none"> ➤ General presentation of the website
11:30 -12:15	Website <ul style="list-style-type: none"> ➤ Hands on presentation on Step 1 of the Website ➤ Contact information, current state of aviation within the country
12:15 -12:30	Question and answer
12:30 – 13.30	Lunch Break
13:30 – 15:00	Part 2 of the guidance <ul style="list-style-type: none"> ➤ Compiling fuel burn data – Aggregated and disaggregated methods ➤ Use of approved models as proxy and assistance from ICAO ➤ Presentation of the ICAO Carbon Emissions Calculator ➤ Treatment of bio fuels and arriving at CO₂ emissions ➤ Determining RTK
15:00 – 15:15	Coffee Break
15:15 -16:45	<ul style="list-style-type: none"> ➤ International and domestic split ➤ ICAO fuel form putting it together ➤ Reporting after verification and validation of data
16:45 – 17:00	Question and answer

DAY TWO
15 June 2011

08:30 – 10:00	<p>Part 3 of the guidance</p> <ul style="list-style-type: none"> ➤ Baseline fuel burn, CO₂ and RTK ➤ Fuel Burn metric, possible metrics and the special significance of the ICAO Assembly metric of volume of fuel over RTK
10:00 – 10:15	Coffee break
10:15 -10:45	<ul style="list-style-type: none"> ➤ Concept of additionality of measures and expected results of fuel burn, CO₂ and RTK with and without additional measures
10:45 – 11: 00	Question and answer
11:00- 11:30	<p>Website</p> <ul style="list-style-type: none"> ➤ Hands on presentation on Step 2 of the Website
11:30 -12:30	<p>Part 3 of the guidance</p> <p>Introduction to the basket of measures, including some positive implementation experiences by different stakeholders:</p> <ul style="list-style-type: none"> ➤ Aircraft-related technology development
12:30 -13:30	Lunch Break
13:30-15:00	<p>Part 3 of the guidance con't</p> <p>Introduction to the basket of measures, including some positive implementation experiences by different stakeholders:</p> <ul style="list-style-type: none"> ➤ Aircraft-related technology development ➤ Alternative fuels ➤ Improve air traffic management and infrastructure use ➤ More efficient operations ➤ Economic / market-based measures ➤ Regulatory measures / other
15:00- 15:15	Coffee Break
15:15 – 15:45	<p>Website</p> <ul style="list-style-type: none"> ➤ Hands on presentation on Step 3 of the Website <p>Enter measures to mitigate CO₂ emissions, incremental improvements / benefits for each measure, additional information</p>
15:45- 16:00	Question and answer
16:00 – 16:15	Presentation of the IFSET tool
16:15 – 16:45	<p>Part 5 of the guidance</p> <ul style="list-style-type: none"> ➤ Assistance needs identification through the Action plan process ➤ Climate funds and development banks
16:45 – 17:00	Question and answer

DAY THREE
16 June 2011

08:30 – 10:30	Part 4 of the guidance <ul style="list-style-type: none"> ➤ Time value of money ➤ Identification of costs and net benefits ➤ Net Present Value for each ton of CO₂ saved ➤ Comparing and prioritizing measures ➤ Managing risks
10:30 – 10:45	Question and answer
10:45 – 11:00	➤ Coffee Break
11:00 -11:15	Website <ul style="list-style-type: none"> ➤ Hands on presentation on Step 4 of the Website ➤ How to submit the action plan to ICAO
11:15 -12:30	States initiatives <ul style="list-style-type: none"> ➤ Presentation by UAE
12:30 – 13:30	Lunch Break
13:30 – 14: 00	Question and answer and Feedback form
14:00 – 14:45	Presentation of certificates of participation in the workshop and closing comments

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