



**INFORMATION RELATED TO THE**

**REPORT ON THE**

**ICAO TECHNICAL ASSISTANCE PROGRAMME**

**PRESENTED UNDER A39-WP/28**



# COMPLETED, ON HOLD AND ACTIVE TECHNICAL ASSISTANCE PROJECTS AND STAFFING BY STRATEGIC OBJECTIVE

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## AVIATION SAFETY PROGRAMME

### 1. States that benefited from SAFE Funded Projects

Completed : All States (AOC Inspector Handbook) Haiti (AOC Workshop), Zambia (AOC On-the-Job Training), Kazakhstan (AOC On-the-Job Training), Niger (AOC On-the-Job Training), All MID States (ACAC/ICAO MENA RSOO Study)

Active : All States (CAPSCA), All States (DGCA Course), Madagascar (Capacity Building), Cambodia (Capacity Building), AFI States (AFI Plan; UN Ebola Action Plan; AFCAC AFI-CIS, Africa Flight Procedure Programme (AFPP)), Nepal (Capacity Building), CASSOA (OPS Capacity Building), Uruguay (Capacity Building), Comoros (Capacity Building), Paraguay (Capacity Building), Guyana (Capacity Building), Gabon (Capacity Building), APAC States Assistance Missions (Thailand, Bangladesh, Philippines, Indonesia, Papua New Guinea, Viet Nam, Bhutan, Timor-Leste)

### 2. States with ICAO Plans of Action

Angola, Bahamas, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Comoros, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Gabon, Guinea, Guinea-Bissau, Kazakhstan, Lesotho, Liberia, Madagascar, Malawi, Mali, Mozambique, Niger, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Swaziland, Togo, Zambia

### 3. Staff funded by voluntary contributions

Technical Officer – Implementation (Safety) and Assistant (2014 – 2015)

## **AVIATION SECURITY AND FACILITATION PROGRAMME**

### **1. Aviation Security Improvement Plan (ASIP) activities**

Active: Bahamas, Benin, Bolivia, Burkina Faso, Burundi, Cameroon, Chad, Colombia, Congo, Democratic Republic of the Congo, Djibouti, Gabon, Guinea-Bissau, Honduras, Madagascar, Malawi, Mauritania, Niger, Paraguay, Philippines, Sao Tome and Principe.

On hold: Central African Republic, Guinea, Liberia, South Sudan.

Completed: Haiti, Sierra Leone, Swaziland

### **2. Direct aviation security assistance activities (non-ASIP) and facilitation assistance, including fellowships to training events**

Algeria, Aruba, Belize, Botswana, Burkina Faso, Cayman Islands, Chad, Costa Rica, Côte d'Ivoire, Cuba, Curacao, Eastern Caribbean Civil Aviation Authority (Saint Vincent and the Grenadines, St. Lucia and Grenada), El Salvador, Dominican Republic, El Salvador, Ghana, Guatemala, Guinea, Guyana, Honduras, Iran, Jamaica, Mali, Mauritania, Mexico, Montenegro, Morocco, Mozambique, Namibia, Nicaragua, Niger, Nigeria, Paraguay, Peru, Philippines, Qatar, Rwanda, Saudi Arabia, Senegal, Suriname, Swaziland, Thailand, Trinidad & Tobago, Togo, Tunisia, Viet Nam, United Arab Emirates, Zambia

### **3. Staff funded by voluntary contributions**

ICAO HQ: six positions (4 professional and 2 general service)  
Regional Offices: four positions (3 professional and 1 general service).

### **4. Seconded/gratis staff**

Secondments: three positions (professional)  
Gratis: two positions (professional)

## ENVIRONMENTAL PROTECTION PROGRAMME

### 1. States Benefitting from Environment Assistance Projects

#### 1.1 ICAO-European Union (EU) Joint Assistance Project

Angola, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Democratic Republic of the Congo, Equatorial Guinea, Republic of the Congo, Dominican Republic, Gabon, Kenya, São Tomé and Príncipe, and Trinidad and Tobago.

1.1.1 In December 2013, ICAO signed an agreement on the ICAO-EU joint assistance project, *Capacity building for CO<sub>2</sub> mitigation from international aviation*, which is a EUR 6.5 million project funded by the EU, with an estimated duration of 42 months. Fourteen States from Africa and the Caribbean were selected to participate in this project. The project encompasses three areas of activities in the selected States: development of States' action plans; setting up of an aviation environmental system for Monitoring, Reporting and Verification (MRV) of CO<sub>2</sub> emissions; and identification and implementation of measures to reduce aviation emissions.

1.1.2 Under the ICAO-EU joint assistance project, ICAO organized four capacity-building seminars in 2014 and 2015 for the Caribbean and African regions, focusing on the development of the States' voluntary action plans and the selection of mitigation measures, and on the Aviation Environmental System, which is a resource developed under the project and already installed in thirteen States to establish emission inventories and monitor CO<sub>2</sub> emissions from aviation. As of April 2016, two Caribbean States and eight African States had submitted their action plans to ICAO.

1.1.3 In 2016, ICAO will continue to support the selected States in the implementation of the mitigation measures in their action plans. The support will include preparation of feasibility studies, implementation of pilot mitigation measures such as alternative fuels, improved air traffic management, more efficient operations and airport improvements and renewable energy, and also further capacity building activities. These experiences will become useful examples that could be replicated by other States in their efforts to address climate change and aviation.

#### 1.2 ICAO - United Nations Development Programme (UNDP)- Global Environment Facility (GEF) Project

Small Island Developing States (SIDS), with an initial pilot project being installed in Jamaica.

1.2.1 In November 2014, the Global Environment Facility (GEF) informed the United Nations Development Programme (UNDP) and ICAO of its approval of the joint assistance project, *Transforming the global aviation sector: Emission reduction from international aviation*.

1.2.2 The project objectives include identifying and facilitating the implementation of measures to reduce international aviation emissions. It is envisaged that a series of policy instruments will be developed, including guidance papers and studies on regulatory and organizational measures to improve low emissions aviation, financing mechanisms to support implementation of aviation emissions reduction activities, use of alternative jet fuels and renewable energy at the airports. An important element of this project is a USD 2 million practical pilot project at an airport in Jamaica, consisting of the implementation of a CO<sub>2</sub> reduction measure that could be replicated in other States.

1.2.3 Currently, policy consultants are being recruited to develop guidance documents and supporting mechanisms to assist the identification and implementation of measures to reduce international aviation

emissions. The first mission to Jamaica recently took place in order to conduct site-visits to two international airports in the country, as well as to sensitize government authorities of Jamaica on the project and ensure buy-in of all relevant stakeholders necessary to commence implementation of the pilot project.

2. **Staff Funded by Voluntary Contributions**

ICAO HQ: two positions (general service)

3. **Seconded/Gratis Staff**

Secondments: one position (professional)

Gratis: one position (junior professional officer)

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# **TYPES OF TECHNICAL ASSISTANCE RECURRENT ACTIVITIES FUNDED BY REGULAR PROGRAMME**

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**Note:** To avoid duplication, the Regional Offices recurrent technical assistance activities presented to the Council in a separate annual report are not included in this paper.

## **1. Aviation Safety And Air Navigation Capacity And Efficiency**

1.1 In addition to the provision of TA projects funded by the SAFE, ICAO has been providing various technical assistance, through its regular programme, to States and regional organizations/groups to help them resolve safety deficiencies:

- a) assistance missions to States conducted by the Regional Offices;
- b) development of ICAO Plans of Action for States;
- c) Flight Procedure Programmes in African and Asian regions
- d) Safety Management System (SMS) and State Safety Programme (SSP);
- e) continued assistance to the COSCAPs/RSOs in terms of technical aspects; and
- f) implementation of regional programmes through the RASGs/PIRGs to attain regional safety targets and priorities and air navigation capacity and efficiency contained in the GASP and GANP.

## **2. Aviation Security And Facilitation**

2.1 ICAO's activities to support Member States in implementing effective aviation security (AVSEC) and facilitation programmes encompass:

- a) structured ASIPs that use a multi-phase methodology and assistance tools tailored to State's specific needs;
- b) training of aviation security personnel using ICAO aviation security training packages (ASTPs) and workshops, conducted on a scheduled basis at ICAO-recognized aviation security training centres (ASTCs) or under special arrangements with a State or regional organization;
- c) the regular provision of guidance and advice to States in support of their action to implement ICAO Standards and Recommended Practices (SARPs). Such guidance and advice may be provided through special-purpose missions or through communications with State authorities responsible for aviation security and facilitation; and
- d) support to projects conducted under ICAO's Technical Cooperation Programme, such as Cooperative Aviation Security Programmes (CASPs); and support for United Nations Counter-Terrorism Executive Directorate (CTED) State visits. The purpose of the visits is to conduct expert assessments of each Member State's implementation of Security Council resolutions 1373 (2001) and 1624 (2005) and to bolster the ability of United Nations Member States to prevent terrorist acts both

within their borders and across regions. These on-site visits also facilitate technical assistance to Member States, as required, including in the field of civil aviation security.

### 3. **Environmental Protection**

3.1 ICAO provides technical assistance through its regular programme budget, the majority of which is in connection with the action plans on emissions reduction. Since 2010, 740 representatives from 116 States, from all regions, have been trained in the development of an action plan. Additional detail is provided in A39-WP/54 on the State Action Plans Initiative. The activities associated with the action plans on emissions reduction encompass:

- a) organization of seminars that enable States to bring together the stakeholders necessary for taking action on the environment, in an effort to provide a common basis for action plan focal points to coordinate their work, leading to the development of consistent, robust action plans;
- b) provision of direct support to States in the development of their action plans;
- c) detailed review of the action plans that are prepared and provision of associated feedback to States;
- d) facilitation of States working together on a bilateral or multilateral basis to support each other in the development of action plans, leading to improved coordination on a regional basis;
- e) development of guidance, including ICAO Doc 9988, *Guidance on the Development of States' Action Plans on CO<sub>2</sub> Emissions Reduction Activities*;
- f) tools, including the Environmental Benefits Tool (EBT), the Aviation Environmental System (AES); the ICAO Carbon Emissions Calculator, and the ICAO Fuel Savings Estimation Tool (IFSET); and
- g) answering individual questions from States.

### 3.2 **ICAO Action Plan Buddy Programme**

3.2.1 The ICAO Action Plan Buddy Programme invites States that have already submitted their action plans to ICAO to share know-how and build partnerships with other Member States that have not prepared their action plans.

3.2.2 Pursuant to A38-18 paragraph 13, ICAO has developed a draft agreement aimed to facilitate direct cooperation among ICAO Member States, in which one State, “the Buddy”, that has already submitted its States’ Action Plan, assists another State.

3.3 Beyond the action plan process, Assistance is provided to States on the use of IFSET upon request, and often as a dedicated session within regional seminars and meetings of the Planning and Implementation Regional Groups (PIRGs). Some universities are also including IFSET in their courses.

3.4 In support of the Climate Neutral UN initiative, ICAO provides a specialized interface to its Carbon Emissions Calculator for use UN-wide in developing inventories of air travel CO<sub>2</sub> emissions. The calculator is kept up-to-date and ICAO provides instruction and support to the entire UN system in its use. In addition, the ICAO Carbon Emissions Calculator methodology has been expanded beyond passenger air travel to also include the emissions from air cargo shipments.

#### 4. **Economic Development**

4.1 Assistance provided for States, which is designed to raise awareness of, and facilitate the implementation of ICAO's policies and guidance while reducing State's costs in performing its economic regulatory functions, takes a format of a) the organization of the ICAO Air Services Negotiation (ICAN) facility and regional meetings on action plans for the sustainable development of air transport, including cargo services; b) the conduct of hands-on coaching sessions for aviation data and analysis; and c) regular provision of guidance and advice through communications with State authorities. The organization of such events relies on in-kind contribution from States.

4.2 As its core activity, ICAN provides States with a central meeting place to conduct bilateral (regional or plurilateral) air services negotiations or consultations. ICAN is also open to interested aviation stakeholders in order to better serve the wider aviation community and facilitate networking between policy makers, regulators, air operators and service providers, as well as with other stakeholders. More information available at <http://www.icao.int/sustainability/Pages/economic-policy.aspx>.

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## TRAINING PROGRAMMES BY ICAO REGION FROM 1 JANUARY 2014 TO 31 MAY 2016

**Table 1. Number of participants enrolled in computer-based training courses per ICAO Region**

Computer-based training courses	NACC	SAM	EUR/ NAT	ESAF	WACAF	MID	APAC	Total Partici- pants
Universal Safety Oversight Audit Programme (USOAP) Computer-based Training (CBT)*	25	2	28	38	10	3	41	147
Aviation Medicine Concepts For Medical Examiners course	15	58	29	34	26	39	84	285
<b>Total Participants :</b>	<b>40</b>	<b>60</b>	<b>57</b>	<b>72</b>	<b>36</b>	<b>42</b>	<b>125</b>	<b>432</b>

\*Waived Registration Fees

**Table 2. Number of courses delivered per ICAO Region**

Classroom courses	NACC	SAM	EUR/ NAT	ESAF	WACAF	MID	APAC	Total Courses
ECCAIRS (European Co-ordination centre for Accident and Incident Reporting Systems) Technical Course / End Users	2	0	2	1	1	0	2	8
ECCAIRS Train-the-Trainer	0	0	0	1	1	0	0	2
Training Instructors Course (TIC)	0	0	0	0	1	0	0	1
Government Safety Inspector- PEL Course	1	0	0	1	0	0	0	2
Government Safety Inspector- AIR Course	0	0	0	1	0	0	1	2
Government Safety Inspector- OPS Course	1	0	0	1	1	0	0	3
Dangerous Goods Training Programme	0	0	0	0	0	0	1	1
AVSEC Cargo and Mail	5	2	4	1	2	2	2	18
AVSEC National Inspectors	1	3	5	0	3	1	4	17
AVSEC Crisis Management	0	0	3	0	2	0	3	8
AVSEC Instructors	1	1	2	2	4	2	1	13
AVSEC Basic	0	0	0	1	3	0	0	4
AVSEC Management	0	0	0	0	1	0	0	1
AVSEC Exercise	0	0	0	0	0	1	0	1
<b>Total Courses :</b>	<b>11</b>	<b>6</b>	<b>16</b>	<b>9</b>	<b>19</b>	<b>6</b>	<b>14</b>	<b>81</b>



## VOLUNTARY FUNDS

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### VOLUNTARY CONTRIBUTION FUNDS RECEIVED IN 2016\* (as at 31 May 2016)

(in thousands of Canadian dollars)

<b>MEMBER STATES</b>	<b>SAFE FUND</b>	<b>AFI PLAN</b>	<b>AVSEC</b>	<b>ENV</b>	<b>TRAF</b>	<b>HRDF</b>	<b>IPAV</b>	<b>TOTAL</b>
Canada			1 755					1 755
Chile	13		13	9				35
Indonesia		188						188
Japan	110		54					164
Kenya							1	1
Nigeria						150		150
Pakistan							4	4
United States			184					184
OTHERS								0
European Commission		10		5 221				5 231
UNDP – Global Aviation				384				384
Concordia University			141					141
<b>TOTAL</b>	<b>123</b>	<b>198</b>	<b>2 147</b>	<b>5 614</b>	<b>0</b>	<b>150</b>	<b>5</b>	<b>8 237</b>

\* includes all major contributions, and donations under Grant and other agreements

**VOLUNTARY CONTRIBUTION FUNDS RECEIVED IN 2015\***

(in thousands of Canadian dollars)

<b>MEMBER STATES</b>	<b>SAFE</b>	<b>AFI PLAN</b>	<b>AVSEC</b>	<b>ENV</b>	<b>TRAF</b>	<b>HRDF</b>	<b>IPAV</b>	<b>TOTAL</b>
Canada			1 601					1 601
China	64	64		64				192
Chile	13		14	9				36
Indonesia		200						200
Japan			54					54
Kenya	4				3	7		14
Nepal	9							9
Republic of Korea	63	63						126
Russian Federation	149							149
Switzerland	14							14
Tanzania						6		6
Turkey		32				25		57
United Kingdom			15					15
United States			1 710					1 710
OTHERS:								
European Commission		92						92
Airports of Thailand Public Company	5							5
Boeing	381**							381
UNDP - Global Aviation				327				327
<b>TOTAL</b>	<b>702</b>	<b>451</b>	<b>3 394</b>	<b>400</b>	<b>3</b>	<b>38</b>	<b>0</b>	<b>4 988</b>

\* includes all major contributions, and donations under Grant and other agreements.

\*\* transferred from AOSC.

**VOLUNTARY CONTRIBUTION FUNDS RECEIVED IN 2014\***

(in thousands of Canadian dollars)

<b>MEMBER STATES</b>	<b>SAFE FUND</b>	<b>AFI PLAN</b>	<b>AVSEC</b>	<b>ENV</b>	<b>TOTAL</b>
Angola	11				11
Canada			750		750
China	54	54		54	162
France	489**				489
Republic of Korea	54	54			108
Russian Federation	126				126
Switzerland	23				23
United Kingdom	111		92		203
United States			1 497		1 497
<b>OTHERS:</b>					
European Commission		187		1 516	1 703
Airports of Thailand Public Company	33				33
UNDP - Ebola Aviation Action Plan	1 152				1 152
<b>TOTAL:</b>	<b>2 053</b>	<b>295</b>	<b>2 339</b>	<b>1 570</b>	<b>6 257</b>

\* includes all major contributions, and donations under Grant and other agreements.

\*\* transferred from France trust fund.

**TECHNICAL ASSISTANCE BUDGET BY ORGANIZATIONAL ENTITY  
REGULAR PROGRAMME FUND**

(in thousands of Canadian dollars)

<b>Bureau/ Regional Office</b>	<b>Strategic Objective</b>	<b>Budget<sup>1</sup> 2016</b>	<b>Total Expenses<sup>2</sup> as at 31 May 2016</b>
ANB	Safety	4,393	1,162
ANB	Air Navigation Capacity and Efficiency	3,214	842
ATB	Security and Facilitation	1,651	623
ATB	Economic Development of Air Transport	184	55
ATB	Environmental Protection	228	52
<b>Sub-total (Headquarters):</b>		<b>9,669</b>	<b>2,734</b>
APAC	All Strategic Objectives	1,785	805
ESAF	All Strategic Objectives	899	346
EURNAT	All Strategic Objectives	703	230
MID	All Strategic Objectives	785	303
NACC	All Strategic Objectives	2,487	1,007
SAM	All Strategic Objectives	341	126
WACAF	All Strategic Objectives	844	361
<b>Sub-total (Regional Offices):</b>		<b>7,843</b>	<b>3,179</b>
<b>Grand Total:</b>		<b>17,513</b>	<b>5,913</b>

<sup>1</sup> Budget includes 2016 appropriations plus carryover of 2015 savings

<sup>2</sup> Total expenses excludes 2016 commitments

**TECHNICAL ASSISTANCE BUDGET BY ORGANIZATIONAL ENTITY  
REGULAR PROGRAMME FUND**

(in thousands of Canadian dollars)

<b>Bureau/ Regional Office</b>	<b>Strategic Objective</b>	<b>Budget<sup>1</sup> 2015</b>	<b>Total Expenses<sup>2</sup> 2015</b>
ANB	Safety	3,821	3,173
ANB	Air Navigation Capacity and Efficiency	3,057	1,932
ATB	Security and Facilitation	1,480	1,400
ATB	Economic Development of Air Transport	132	108
ATB	Environmental Protection	220	188
<b>Sub-total (Headquarters):</b>		<b>8,710</b>	<b>6,802</b>
APAC	All Strategic Objectives	1,740	1,876
ESAF	All Strategic Objectives	1,026	895
EURNAT	All Strategic Objectives	652	537
MID	All Strategic Objectives	806	876
NACC	All Strategic Objectives	2,495	2,457
SAM	All Strategic Objectives	335	334
WACAF	All Strategic Objectives	758	788
<b>Sub-total (Regional Offices):</b>		<b>7,812</b>	<b>7,763</b>
<b>Grand Total:</b>		<b>16,521</b>	<b>14,564</b>

<sup>1</sup> Budget includes 2015 appropriations plus carryover of 2014 savings

<sup>2</sup> Total expenses excludes 2015 commitments

**TECHNICAL ASSISTANCE BUDGET BY ORGANIZATIONAL ENTITY  
REGULAR PROGRAMME FUND**

(in thousands of Canadian dollars)

<b>Bureau/ Regional Office</b>	<b>Strategic Objective</b>	<b>Budget<sup>1</sup> 2014</b>	<b>Total Expenses<sup>2</sup> 2014</b>
ANB	Safety	2,792	2,747
ANB	Air Navigation Capacity and Efficiency	2,197	1,986
ATB	Security and Facilitation	1,543	1,551
ATB	Economic Development of Air Transport	114	122
ATB	Environmental Protection	188	185
<b>Sub-total (Headquarters):</b>		<b>6,835</b>	<b>6,590</b>
APAC	All Strategic Objectives	1,643	1,650
ESAF	All Strategic Objectives	962	721
EURNAT	All Strategic Objectives	620	538
MID	All Strategic Objectives	735	679
NACC	All Strategic Objectives	2,284	2,159
SAM	All Strategic Objectives	321	301
WACAF	All Strategic Objectives	858	657
<b>Sub-total (Regional Offices):</b>		<b>7,424</b>	<b>6,705</b>
<b>Grand Total:</b>		<b>14,258</b>	<b>13,295</b>

<sup>1</sup> Budget includes 2014 appropriations plus carryover of 2013 savings

<sup>2</sup> Total expenses excludes 2014 commitments

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