



INTERNATIONAL CIVIL AVIATION ORGANIZATION

SOUTH AMERICAN OFFICE

ICAO SPECIAL IMPLEMENTATION PROJECT (SIP)

WORKSHOP ON THE DEVELOPMENT OF NATIONAL PERFORMANCE FRAMEWORK TO ACHIEVE A GLOBAL ATM SYSTEM

(LIMA, 13-17 APRIL 2009)

SUMMARY OF DISCUSSIONS

1. INTRODUCTION

1.1 The workshop was conducted within the framework of Special Implementation Projects (SIPs) for the year 2009. The objective was to provide States in the South American Region, with a better understanding of developing national performance framework for air navigation system. The workshop was attended by a total of 15 participants from 4 States/Administrations. The list of participants and speakers is available in the **Appendix A** to this Report. Mr. Jose Miguel Ceppi, ICAO Regional Director, South American Region, opened the Workshop. This event was well coordinated under the leadership of Mr. Carlos Stehli, Deputy Regional Director, South American Region.

1.2 Mr. Jim Nagle, Chief of CNS/AIRS Section in Air Navigation Bureau and Mr. Hindupur Sudarshan, Regional Programme Officer in Air Navigation Bureau, ICAO Headquarters in Montreal, were the facilitators of the workshop. Mr. C. Stehli, the Deputy Regional Director also shared during the workshop the regional perspective in terms of establishing air navigation infrastructure in South American region.

2. DISCUSSIONS

2.1 On the first day of the workshop, participants were provided with basic presentations, which covered ATM operational concept, technology and operational aspects of Global ATM system and planning issues. The workshop noted that significant progress was being made to implement air navigation systems worldwide including in the South American Region. The workshop recognized the importance of ongoing interregional coordination for ensuring the harmonized implementation of air navigation systems so as to achieve a seamless and integrated Global ATM system.

2.2 On the second and third days, the workshop discussed the core subjects of performance framework such as implementation issues, economic assessment, Regional perspective, performance objectives and metrics, performance framework forms, and transition guidelines.

2.3 On the fourth day, the workshop attendees participated in the exercise for the development of national performance framework for air navigation systems on the basis of guidance material developed by the ICAO Secretariat.

2.4 On the fifth and last day, the groups who carried out the exercise presented their outcomes to the workshop in the standard format attached hereto (**Appendix B**). Subsequently, the workshop was provided with an overview of future developments and the work programme of the Panels and Study Groups of the Air Navigation Commission (ANC).

2.5 In the concluding session, participants expressed their appreciation for the format and content of the workshop, which demonstrated the importance of the development of national performance framework for air navigation systems and for the conduct of the hands-on exercise. Mr. C Stehli, the ICAO Deputy Regional Director, South American Region thanked the attendees for their interest in the development of Performance framework and closed the workshop.

3. RECOMMENDATIONS

3.1 As a result of discussions, the workshop developed the following recommendations, which are to be addressed by ICAO and States, as appropriate:

- 1) **States** collect and provide the required data to the Regional Office that meets the regional metrics to be developed by the GREPECAS for efficiency which includes capacity, cost effectiveness, GHG emissions and fuel burn.
- 2) **States** adopt a performance based approach in developing the air navigation infrastructure on the basis of ICAO guidance material and ensure their alignment with the regional performance objectives. The performance framework should include identification of national performance objectives and completion of national performance framework forms;
- 3) **ICAO** continues enhancing the ongoing intra and interregional coordination for planning, implementation and harmonization of a Global ATM system; and
- 4) **ICAO** assists States in the development of performance based air navigation planning and its implementation.

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LIST OF PARTICIPANTS

STATES/ ADMINISTRATIONS	NAME/DESIGNATION/ADDRESS
Brasil	Fabio Almeida Esteves Jefe de la División ATM DECEA Av. Gen. Justo 160 Centro Rio de Janeiro – RJ Brasil
Paraguay	Hernán Jhonny Colman Quintana Gerente de Navegación Aérea DINAC Av. Mariscal López y 22 de Septiembre Edificio Ministerio de Defensa Nacional Piso 2 Asunción, Paraguay
	Tomás Alfredo Yentzch Irala Jefe Sección Planificación ATS DINAC Av. Mariscal López y 22 de Septiembre Edificio Ministerio de Defensa Nacional Piso 2 Asunción, Paraguay
	Roque Díaz Estigarribia Administrador Aeropuerto Internacional de Guaraní DINAC Asunción, Paraguay
	Carlos Gustavo Fernández Olmedo Pronosticador Sinóptico Aeronáutico Aeropuerto Internacional Silvio Pettirrossi DINAC Asunción, Paraguay
Perú	Raymundo Hurtado Paredes Inspector de Navegación Aérea – ATM Dirección General de Aeronáutica Civil Lima 1, Perú
	Paulo Vila Millones Inspector de Navegación Aérea – CNS Dirección General de Aeronáutica Civil Lima 1, Perú
	José Moreno Mestanza Jefe Área de Normas y Procedimientos Corporación Peruana de Aeropuertos y Aviación Comercial – CORPAC S.A. Callao, Perú

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STATES/ ADMINISTRATIONS	NAME/DESIGNATION/ADDRESS
	<p>José Luis Paredes Área Planificación CNS Gerencia Técnica Corporación Peruana de Aeropuertos y Aviación Comercial – CORPAC S.A. Callao, Perú</p>
	<p>Marco Antonio Vidal Macchiavello Controlador Tránsito Aéreo de Área Corporación Peruana de Aeropuertos y Aviación Comercial – CORPAC S.A. Callao, Perú</p>
	<p>Fernando Zea Fernández Controlador de Tránsito Aéreo Corporación Peruana de Aeropuertos y Aviación Comercial – CORPAC S.A. Callao, Perú</p>
	<p>Víctor Javier Zavaleta Ahon Controlador de Tránsito Aéreo Corporación Peruana de Aeropuertos y Aviación Comercial – CORPAC S.A. Callao, Perú</p>
	<p>Daniel Montalvo Roel Controlador de Tránsito Aéreo Corporación Peruana de Aeropuertos y Aviación Comercial – CORPAC S.A. Callao, Perú</p>
Uruguay	<p>Juan Manuel Prada Director División Navegación Aérea DINACIA Canelones, Uruguay</p>
	<p>Rosanna Cristina Barú Banchieri Especialista en Navegación Aérea DINACIA Canelones, Uruguay</p>
OACI Sede Montreal	<p>Mr. J. Nagle Chief, Communications, Navigation and Surveillance/Aeronautical Information Resource Services Section (CNS/AIRS) International Civil Aviation Organization Montreal, Canada</p>
	<p>Mr. H. Sudarshan Regional Programme Officer International Civil Aviation Organization Montreal, Canada</p>

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STATES/ ADMINISTRATIONS	NAME/DESIGNATION/ADDRESS
OACI Oficina SAM	Carlos Stehli Deputy Regional Director International Civil Aviation Organization Lima, Perú
	Nohora Arias Regional Officer MET International Civil Aviation Organization Lima, Perú
	Jorge Fernández Regional Officer ATM International Civil Aviation Organization Lima, Perú
	Onofrio Smarrelli Regional Officer CNS International Civil Aviation Organization Lima, Perú
	Alberto Orero Regional Officer ATM/SAR/AIM International Civil Aviation Organization Lima, Perú

APPROACH TO HANDS-ON EXERCISE

FORMAT

1. Characteristics of the industry

Enumerate the current and projected growth of Air Traffic in your state and also identify, if any, the efficiency challenges in your State.

2. The air navigation service provider

Describe briefly the organization providing the air navigation services in your State including its institutional format, capital structure, principal shareholders and the management.

3. Major stakeholders/partners

Identify the major stakeholders/partners such as the air navigation service providers, the airspace users (the commercial airlines using the airspace, business aviation, general aviation, military, etc.) and the potential funding sources.

4. Problem definition

The current conventional air navigation systems might have several limitations, which would depend on the State or the region concerned. List such limitations in your State.

5. Performance based National Air Navigation Plan

Define the geographical scope of the National Air Navigation Plan and determine the major traffic flows. Explain briefly the vision of your State for achieving a seamless Global ATM system. Specifically, establish national performance objectives for the air navigation infrastructure, list current air navigation systems and through gap analysis define near and medium term operational improvements.

6. Performance framework forms (PFFs)

Using the standard approach, develop PFFs for different national performance objectives by determining relevant projects/tasks and ensuring the linkage to Key Performance Areas (KPAs) and Global Plan initiatives (GPIs).

7. Risk Management

What are the risks identified for this National Air Navigation Plan and if any, briefly describe the risk mitigation plans/techniques.

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