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Civil Aviation
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de l'aviation civile
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Международная
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منظمة الطيران
المدني الدولي

国际民用
航空组织

LN 3/20.3 –SA241

6 June 2014

To: Mr. Jean-Michel Boivin, Regional Director of Civil Aviation, French Guiana
Mr. Zulficar Mohamed, Director General, Civil Aviation Authority, Guyana
Mr. Falisie Jozef Pinas, Minister of Transport, Communication and Tourism, Suriname

Subject: **RLA/03/901 REDDIG – Third Meeting on the Technical-Operational Implementation of the New REDDIG II Digital Network (RTO/3)** (Bogota, Colombia, 28 to 29 July 2014) and **REDDIG II Preparatory Course** (Bogota, Colombia, 29 July to 1 August 2014)

Action required: Confirm attendance by 30 June 2014

I have the honor to refer to RLA/03/901 Regional Project - *REDDIG Management System and Administration of the Satellite Segment*, to invite your Administration to the Third Meeting on the Technical-Operational Implementation of the New REDDIG II Digital Network (RTO/3) (Bogota, Colombia, 28 to 29 July 2014) and REDDIG II Preparatory Course (Bogota, Colombia, 29 July to 1 August 2014).

The objective of these events is to provide initial guidelines to RLA/03/901 project member States for the implementation of the new REDDIG II digital network on the basis of the implementation schedule presented at RTO/2 meeting (Lima, Peru, 26 to 28 March 2014), and presented in **Appendix A**.

At RTO/3 meeting, follow-up will be made to the REDDIG II implementation activities carried out to date, presenting the results of the in-factory course and of the factory acceptance tests; the activities conducted by the REDDIG member States regarding the initial preparations on REDDIG II implementation, particularly the REDDIG II equipment importation process; and other activities required to be undertaken by the REDDIG member States for the forthcoming REDDIG II implementation.

With regard to the REDDIG II Preparatory Course, to be carried out thanks to the collaboration of the Unidad Administrativa Especial de Aeronáutica Civil (UAEAC) of Colombia, through the provision of instructors with expertise in IP networks, who will provide information on the CISCO multiplexor routers to be used in the REDDIG II satellite and ground network. This is a preparatory course prior to the REDDIG II theoretical/course (English) to be carried out in Rio de Janeiro, Brazil, from 25 August to 5 September 2014.

Attached please find the provisional Agendas (**Appendices B and C**), of the matters to be discussed at RTO/3 meeting and REDDIG II Preparatory Course, as well as the provisional timetable (**Appendix D**). The information paper containing general information on the events such as venue, list of recommended hotels, etc., will be uploaded in the ICAO website, as soon as it is available.

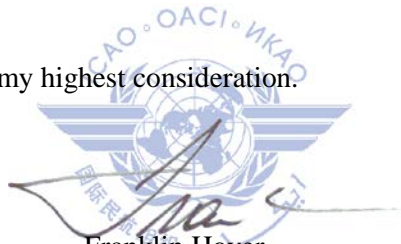
It is important to recall that all focal points nominated by the States actively participate in both of these events, as deemed convenient at REDDIG RCC/16 meeting through Conclusion RCC/16-1 - *Support of the civil aviation authorities to the focal points nominated for the implementation of REDDIG II*, and at the Thirteenth Meeting of Civil Aviation Authorities of the SAM Region (RAAC/13) (Bogota, Colombia, 4-6 December 2013) through Conclusion RAAC/13-7 - *Facilitating active participation in all REDDIG II implementation activities*.

I will appreciate receiving a confirmation on participation of your delegates at the indicated events, by sending to this Office the attached Registration Form (**Appendix E**) duly completed for each delegate, no later than **30 June 2014**. These events have assigned one fellowship per RLA/03/901 project member State.

The documentation will be issued in due course on the website of this Office, www.icao.int/sam and will not be printed nor be distributed during the meeting, being desirable that the delegates take them physically or by electronic means.

Were you to require further information, please contact Mr. Onofrio Smarrelli, CNS Officer, ICAO SAM Regional Office.

Accept, Sir/Madam, the assurances of my highest consideration.



Franklin Hoyer
Regional Director
ICAO South American Office
Lima

Enclosures

cc: Mr. Olivier Jouans, Regional Director of ATM services, French Guiana
Mrs. Thelma Douglas Pinas, Permanent Secretary, MTCT, Suriname
Mr. Robby Venlo, Director General (a.i.), Civil Aviation Department, Suriname
Mr. Brian De Souza, Director (a.i.), CASAS, Suriname
REDDIG counterparties
ICAORD Mexico (for transmission to Trinidad & Tobago)
C/FOS/PIU, ICAO, Montreal

**APPENDIX A / APENDICE A
TENTATIVE TIME SCHEDULE / PHASES / PROGRAMA TENTATIVO - FASES**

ID	Nom de la tâche	Duration	Start	Finish	Qtr 2, 2013												Qtr 1, 2014				Qtr 2, 2014				Qtr 3, 2014				Qtr 4, 2014				Qtr 1, 2015				Qtr 2, 2015				Qtr 3, 2015				Qtr 4, 2015				Qtr 1, 2016				Qtr 2, 2016				Qtr 3, 2016				Qtr 4, 2016			
					Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	Tentative REDDIG II implementation work programme / Programa tentativo de trabajo implantación REDDIG II	416 days	Thu 16/05/13	Thu 18/12/14																																																												
2	Phase 1 - Project / Fase 1 - Proyecto	136.57 days	Thu 16/05/13	Fri 22/11/13																																																												
3	Documentation drafting and approval process / Proceso de elaboración y aprobación documentación	136.57 days	Thu 16/05/13	Fri 22/11/13																																																												
4	REDDIG II preliminary design installation / Preparación diseño preliminar instalación REDDIG II (SDD)	40 days	Thu 09/05/13	Wed 03/07/13																																																												
5	Preparation of installation and training procedures documentation and NMS documentaion preparation / Preparacion documentos de procedimiento de instalacion y capacitacion y ptrparacion documentacion del sistema NMS	15 days	Thu 04/07/13	Wed 24/07/13																																																												
6	FAT protocol preparation / Preparacion protocolo FAT	10 days	Thu 25/07/13	Wed 07/08/13																																																												
7	SAT protocol preparation / Preparacion protocolo SAT	10 days	Thu 08/08/13	Wed 21/08/13																																																												
8	Documentation submittance (SDD, FAT/SAT protocol, on-site installation procedure, training manuals) to ICAO / Envio documentación (SDD, protocolo FAT/SAT, procedimiento instalacion sitio, manuales de capacitación) a OACI	0 days	Wed 21/08/13	Wed 21/08/13																																																												
9	Documentation review / Revision de la documentacion	12 days	Thu 22/08/13	Fri 06/09/13																																																												
10	Technical-operational meeting / Reunión tecnico-operacional	5 days	Mon 09/09/13	Fri 13/09/13																																																												
11	Final design/Diseño finalizado	23 days	Mon 16/09/13	Wed 16/10/13																																																												
12	Documentation reviewed and approved / Documentos revisados y aprobados	0 days	Wed 16/10/13	Wed 16/10/13																																																												
13	Schedule DRM /Cronograma DRM	30 days	Thu 17/10/13	Wed 27/11/13																																																												
14	Phase 2 - REDDIG II implementation / Fase 2 - Implantación de la REDDIG II	215.29 days	Thu 17/10/13	Thu 14/08/14																																																												
15	Purchasing and integration of VSAT equipment / Adquisición e integración equipos VSAT	35 days	Thu 26/12/13	Wed 12/02/14																																																												
16	Purchasing of equipment and remittance to company HQ for integration / Adquisición de equipos y envío a la sede de la empresa ganadora para su integración	7 wks	Thu 26/12/13	Wed 12/02/14																																																												
17	Preparation of ground backbone network / Preparación red medular terrestre	35 days	Mon 14/07/14	Fri 29/08/14																																																												
18	Hiring of service for all nodes / Contratación de servicio para todos los nodos	2 wks	Mon 14/07/14	Fri 25/07/14																																																												
19	Comisionamiento red terrestre/Ground back bone commissioning	1 wk	Mon 25/08/14	Fri 29/08/14																																																												
20	Integration at factory, training and FAT / Integracion en fábrica, entrenamiento y FAT	67 days	Thu 13/02/14	Fri 16/05/14																																																												
21	Equipment assembling at factory / Ensamblar equipos en fábrica	6 wks	Thu 13/02/14	Wed 26/03/14																																																												
22	Network configuration and pre-test / Configuración y pre-test de la red	8 wks	Thu 06/03/14	Wed 30/04/14																																																												
23	Documentation submittance for on-factory-training / Envío documentación para entrenamiento en fábrica	0 wks	Mon 21/04/14	Mon 21/04/14																																																												
24	On-factory-training / Entrenamiento en fábrica	3 wks	Mon 21/04/14	Fri 09/05/14																																																												
25	FAT	5 days	Mon 12/05/14	Fri 16/05/14																																																												
26	FAT signature / Firma FAT	0 days	Fri 16/05/14	Fri 16/05/14																																																												
27	REDDIG II Technical Operational Meeting/Reunión Técnica Operacional REDDIG II	90 days	Wed 26/03/14	Tue 29/07/14																																																												
28	RTO Meeting/Reunión RTO	3 days	Wed 26/03/14	Fri 28/03/14																																																												
29	RTO Meeting/Reunión RTO	2 days	Mon 28/07/14	Tue 29/07/14																																																												
30	Preparatory REDDIG II Course/ Curso preparatorio REDDIG II	3 days	Wed 30/07/14	Fri 01/08/14																																																												
31	REDDIG II preliminary course in Bogotá/ Curso preparatorio preliminar de la REDDIG II en Colombia	3 days	Wed 30/07/14	Fri 01/08/14																																																												
32	Remittance of equipment to sites (customs clearance 1 month approx) / Envío de los equipos a los sitios (liberación equipos aduana 1 mes tiempo estimado)	72 days	Mon 02/06/14	Tue 09/09/14																																																												
33	Preparation of equipment remittance / Preparación para envío de equipos	2.8 wks	Tue 03/06/14	Fri 20/06/14																																																												
34	Preparation para el envío equipos REDDIG II a Rio para entrenamiento/Preparation for the remittance of REDDIG II equipment in Rio for training	7 days	Mon 02/06/14	Tue 10/06/14																																																												
35	Ezeiza	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
36	La Paz	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
37	Rio de Janeiro	6.4 wks	Thu 12/06/14	Fri 25/07/14																																																												
38	Santiago	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
39	Bogota	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
40	Guayaquil	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
41	Georgetown	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
42	Cayenne	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
43	Asuncion	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
44	Lima	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
45	Paramaribo	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
46	Piarco	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
47	Montevideo	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												
48	Maiquetia	11.4 wks	Mon 23/06/14	Tue 09/09/14																																																												

APPENDIX B

RLA/03/901 Regional Project - REDDIG Management System and Administration of the Satellite Segment

THIRD MEETING ON THE TECHNICAL-OPERATIONAL IMPLEMENTATION OF THE NEW REDDIG II DIGITAL NETWORK (RTO/3) (Bogota, Colombia, 28 to 29 July 2014)

PROVISIONAL AGENDA

- Agenda Item 1: Follow-up to REDDIG II implementation activities carried out to date
- Agenda Item 2: Review of activities conducted by REDDIG member States regarding initial preparations for REDDIG II implementation
- Agenda Item 3: Analysis of further activities required to be undertaken by REDDIG member States for REDDIG II implementation
- Agenda Item 4: Other business

EXPLANATORY NOTES

Agenda Item 1: Follow-up to REDDIG II implementation activities carried out to date

The Meeting will review the activities carried out to date for the implementation of REDDIG II, as per the REDDIG II implementation action plan (Contract 22501200, Phase 2) presented at the second meeting on the technical-operational implementation of the new REDDIG II digital network (RTO/2) (Lima, Peru, 26-28 March 2014). Of the activities conducted, the in-factory course carried out from 21 April to 9 May 2014 and the factory acceptance tests, held from 12 to 16 May 2014, are to be highlighted.

Agenda Item 2: Review of activities conducted by REDDIG member States regarding initial preparations for REDDIG II implementation

Under this Agenda Item, the Meeting the activities carried out by REDDIG member States in the implementation of administrative, logistical and technical activities considered upon during RTO/2 meeting. In addition, the list of focal points will be updated. The actions undertaken for the REDDIG II equipment importation process will be examined.

Agenda Item 3: Analysis of further activities required to be undertaken by REDDIG member States for REDDIG II implementation

Under this Agenda Item, the REDDIG II, Phase 2, implementation activities scheduled in the action plan, as well as the tasks required by the REDDIG member States in this regard, will be examined.

Agenda Item 4: Other business

Under this Item, the Meeting might analyse any other topics it may deem convenient.

APPENDIX C

RLA/03/901 Regional Project - REDDIG Management System and Administration of the Satellite Segment

REDDIG II PREPARATORY COURSE (Bogota, Colombia, 29 July to 1 August 2014)

PROVISIONAL AGENDA

- Agenda Item 1: Introduction to REDDIG II architecture
Main IP satellite network
- Agenda Item 2: Ground MPLS network Ethernet switches: Level 2 switches principles and functions
- Agenda Item 3: CISCO 2900 multiplexors/routers used in the main IP satellite network
- Agenda Item 4: Introduction to MPLS technology: Fundamentals, classes and quality of service

APPENDIX D

**RLA/03/901 Regional Project -
REDDIG Management System and Administration of the Satellite Segment**

THIRD MEETING ON THE TECHNICAL-OPERATIONAL IMPLEMENTATION OF THE NEW REDDIG II DIGITAL NETWORK (RTO/3)
(Bogota, Colombia, 28 to 29 July 2014)

REDDIG II PREPARATORY COURSE
(Bogota, Colombia, 29 July to 1 August 2014)

PROVISIONAL TIMETABLE

HOUR	Monday 28 July 2014	HOUR	Tuesday 29 July 2014	Wednesday 30 July 2014	Thursday 31 July 2014	Friday 1 August 2014
08:30 09:00	Registration & opening	09:00 10:30	RTO/3 Agenda Item 3 (Cont.)	REDDIG II Preparatory Course Ground MPLS network	REDDIG II Preparatory Course CISCO 2900 multiplexors/routers used in the main IP satellite network	REDDIG II Preparatory Course CISCO 2900 multiplexors/routers used in the main IP satellite network
09:00 10:30	RTO/3 Agenda Item 1					
10:30 11:00	<i>Coffee break</i>	10:30 11:00	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>
11:00 12:30	RTO/3 Agenda Item 2	11:00 12:30	RTO/3 Review of report	REDDIG II Preparatory Course Level 2 ethernet switches	REDDIG II Preparatory Course CISCO 2900 multiplexors/routers used in the main IP satellite network	REDDIG II Preparatory Course CISCO 2900 multiplexors/routers used in the main IP satellite network
12:30 13:30	<i>Lunch break</i>	12:30 13:30	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>
13:30 15:00	RTO/3 Agenda Item 3	13:00 14:00	REDDIG II Preparatory Course Main IP satellite network	REDDIG II Preparatory Course CISCO 2900 multiplexors/routers used in the main IP satellite network	REDDIG II Preparatory Course CISCO 2900 multiplexors/routers used in the main IP satellite network	REDDIG II Preparatory Course Introduction to MPLS technology Closing



APÉNDICE E/APPENDIX E

ORGANIZACIÓN DE AVIACIÓN CIVIL INTERNACIONAL
INTERNATIONAL CIVIL AVIATION ORGANIZATION

Proyecto Regional RLA/03/901 - Sistema de Gestión de la REDDIG y Administración del Segmento Satelital
Regional Project RLA/03/901 - REDDIG Management System and Administration of the Satellite Segment

Tercera Reunión Técnico/Operacional para la Implantación de la Nueva Red Digital REDDIG II (RTO/3)
Third Meeting on the Technical-Operational Implementation of the New REDDIG II Digital Network (RTO/3)

REDDIG II Preparatory Course / Curso Preparatorio de la REDDIG II

Bogota, Colombia, 28 July to 1 August 2014 / Bogotá, Colombia, 28 de Julio al 1 de Agosto de 2014

FORMULARIO DE REGISTRO / REGISTRATION FORM

Participaré en RTO/3
Will participate in RTO/3

Participaré en Curso REDDIG II
Will participate in REDDIG II Course

1. Estado/*State:*

Organismo/*Organization:*

2. Nombre/
Name:

3. Cargo/*Position:*

4. Participa como / *Participates as:*

Delegado/
Delegate

Asesor/
Adviser

Observador/
Observer

5. Dirección oficial /
Business address:

6. Tel.: _____ Fax: _____ E-mail: _____

7. Hotel o dirección en la ciudad/
Hotel or local address:

8. Información de vuelo/
Flight information:

Vuelo de llegada/ fecha/ hora/
Arrival flight/ date/ hour:

Vuelo de salida/ fecha/ hora/
Departure flight/ date/ hour:

Firma /
Signature:

Fecha /
Date:

Por favor envíe este formulario a: / Please return this form to: icaosam@icao.int