

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE REGION SAM - Bolivia

Identification		Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
AGA 34 C	Friction characteristic of runway surface (Annex 14, Vol. I, Chaps. 2, 3, 9)	Bolivia, SANTA CRUZ/Viru Viru	No friction characteristics measured and reported to pilots	Sep-2001	Detected during mission conducted by ICAO Secretariat Planned for June 2003, fax NAV/AER/702/02 from Bolivia	Periodically measure the coefficient of the friction of the runway and report the friction characteristics for the pilot. ACTION TAKEN: There was scheduled to start on 15/12/02 a periodic measurement of the runway friction coefficient by using an equipment mark RUCKER	Bolivia/SABSA	June 2003	B
AGA 35 C	Friction characteristic of runway surface (Annex 14, Vol. I, Chaps. 2, 3, 9)	Bolivia, LA PAZ/EI Alto	No friction characteristics measured and reported to pilots	Sep-2001	Detected during mission conducted by ICAO Secretariat Planned for June 2003, fax NAV/AER/702/02 from Bolivia	Periodically measure the coefficient of the friction of the runway and report the friction characteristics for the pilot. ACTION TAKEN: There was scheduled to start on 15/12/02 a periodic measurement of the runway friction coefficient by using an equipment mark RUCKER	Bolivia/SABSA	June 2003	B
AGA 37 C	Obstacles (Annex 14, Vol. I Chap. 4 and Chap.6)	Bolivia, LA PAZ/EI Alto	Church towers/buildings without obstacle lighting system	Sep-2001	Detected during mission conducted by ICAO Secretariat Planned para March 2003, fax NAV/AER/702/02 from Bolivia	Install lighting system on church towers/buildingss. ACTION TAKEN: DGAC has presented these requirements to the City Hall of EI Alto in order to install the obstacle lighting system.	Bolivia/SABSA	March 2003	A
AGA 36 C	Rescue and Fire Fighting Service (Annex 14, Vol. I, Chap. 9)	Bolivia, LA PAZ/EI Alto	Three minutes RFF time of response	Sep-2001	Detected during mission conducted by ICAO Secretariat Planned for June 2003, fax NAV/AER/702/02 from Bolivia	Improve RFF time of response to 2 minutes. ACTION TAKEN: It was required to the company Rural Metro to cut down the response time to 2 min during the following tests to be carried out	Bolivia/SABSA	June 2003	B

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AGA 30 C RWY end safety area (Annex 14, Vol. I, Chap. 3)	Bolivia, LA PAZ/EI Alto	No RESA at both ends	Sep-2001	Detected during mission conducted by ICAO Secretariat Planned for December 2004, fax NAV/AER/702/02 from Bolivia	Construct RESA at both ends or reduce declared distances "PENDING ACTION PLAN"	Bolivia/SABSA	December 2004	B

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AIS									
AIS 119 C	Annex 15, Chapter 4, Para 4.2.9; Doc 8733 ANP, Part VI, Para. 3.2.	Bolivia	Lack of regular and effective updating of the AIP Document.	25/04/96	GREPECAS. AIS/MAP Subgroup. DGAC-0-1-1876 - 12/11/2002	Need of having updated the aeronautical information and data contained in the AIP Document. EFFECTIVE CONTROL SHOULD BE MAINTAINED WITH RESPECT TO THIS ACTIVITY.	State	2003	U
AIS 146 C	Annex 15, Para. 3.6.4.; Annex 4, Para. 2.18; Annex 11, Chapter 2; Annex 14, Chapter 2, Vol. I and II.	Bolivia	Lack of implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup. Survey to States. DGAC-0-1-1876 - 12/11/2002	Need of implementing a WGS-84 Geodetic System. Lack of total compliance with the WGS-84 System requirements by the States is directly affecting the effective implementation of the GNSS Systems. COORDINATION IS BEING MAINTAINED WITH THE GEOGRAPHIC INSTITUTE ON THIS MATTER.	State	2003	U
AIS 36 C	Doc 8733 ANP, Part VI, Chapter 10, Para. 10.4.	Bolivia	Lack of use of English for plain language texts.	18/09/96	Records and files in SAM Regional Office. GREPECAS reports. DGAC-0-1-1876 - 12/11/2002	Need of use of English for plain language texts. REQUIRED ACTIONS SHOULD BE TAKEN	Indicated State.	2003	A
AIS 139 C	Doc 8733 ANP, Part VI, Chapter 2, Para. 2.3.	Bolivia	Lack of highest priority for printing of AIS publications.	18/09/96	Records and files in SAM Regional Office. GREPECAS Reports. DGAC-0-1-1876 - 12/11/2002	Need to provide a highest priority for printing of AIS publications. REQUIRED ACTIONS ARE BEING TAKEN ON THE MATTER	State	2003	U
AIS 82 C	Doc 8733 ANP, Part VI, Para. 11.1, 11.5.	Bolivia	Non production of Aerodrome Obstacle Chart - ICAO Type C.	06/01/94	Records and files in SAM Regional Office. GREPECAS and AIS/SG reports. DGAC-0-1-1876 - 12/11/2002	Need for production of aeronautical charts of this series. COORDINATION SHOULD BE CARRIED OUT WITH THE GEOGRAPHIC INSTITUTE.	Indicated State	2004	A

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AIS 52 C Doc 8733 ANP, Part VI, Paras. 11.1 through 11.3.	Bolivia	Lack of production of the world aeronautical charts - ICAO and/or VFR chart, scale 1:500,000 - ICAO.	06/01/94	Records and files in SAM Regional Office. GREPECAS and AIS/SG reports. DGAC-0-1-1876 - 12/11/2002	Need for production of aeronautical charts of these series. COORDINATION IS BEING CARRIED OUT ON THE MATTER WITH THE GEOGRAPHIC INSTITUTE.	Indicated State.	2003	A
AIS 7 C ICAO Annex 15, Para. 3.4.4; Annex 4, Para. 2.17; Annex 11, Chapter 2; Annex 14, Chapter 2, Vol. I and II.	Bolivia	Lack of implementation of the WGS-84 System.	01/01/98	AIS Subgroup, GREPECAS. Survey to States. DGAC-0-1-1876 - 12/11/2002	Need to implement the WGS-84 Geodetic System. IT HAS BEEN INDICATED THAT TECHNICAL AGREEMENT HAS BEEN SIGNED WITH THE GEOGRAPHIC INSTITUTE TO SUPPORT THIS TASK.	Indicated State	2003	A
AIS 66 C ICAO Annex 4, Chapter 11.	Bolivia	Partial application of ICAO requirements for the production of instruments approaches charts.	06/01/94	Records and files in SAM Regional Office. GREPECAS and AIS/SG reports. DGAC-0-1-1876 - 12/11/2002	Need for production of aeronautical charts of this series according to ICAO specifications. REQUIRED MEASURES ON THE MATTER IS BEING TAKEN	Indicated State	2003	B
AIS 46 C ICAO Annex 4, Chapter 16, Appendix 5; Doc 8733 ANP, Part VI, Chapter 8.	Bolivia	Production of the world aeronautical chart according to ICAO sheet layout index established for this series of charts.	06/01/94	Records and files in SAM Regional Office. GREPECAS and AIS/SG reports. DGAC-0-1-1876 - 12/11/2002	Need for production of aeronautical charts according to the established requirements. COORDINATION IS BEING CARRIED OUT ON THE MATTER WITH THE GEOGRAPHICAL INSTITUTE	Indicated State.	2003	B
AIS 76 C ICAO Annex 4, Chapter 3.	Bolivia	Partial application of ICAO requirements for the production of Aerodrome Obstacle Chart - ICAO Type A.	06/01/94	Records and files in SAM Regional Office. GREPECAS and AIS/SG reports. DGAC-0-1-1876 - 12/11/2002	Need for effective production of aeronautical charts of this series according to the ICAO specifications. THIS REQUIREMENT HAS BEEN SATISFIED FOR THE MAIN INTERNATIONAL AIRPORTS	Indicated State	2003	A

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AIS 16 C ICAO Annex 4, Para. 2.17; Doc 8733 ANP, Part VI, Chapter 11.	Bolivia	Production of aeronautical charts according to requirements of the WGS-84 System.	01/01/98	Records and files in SAM Regional Office. Please note that Argentina, Chile and Uruguay have completed a partial application. 1:1,000,000 and 1:500,000 VFR charts are still missing. Doc DGAC-0-1-1876, dated 12 NOV 2002 from Bolivia	Need for production of aeronautical charts according to requirements.	Indicated State	June 2003	A

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ATM

ATM	2 C	English proficiency in Air Traffic Services, CAR/SAM/3 Rec. 5/35	Bolivia	The proficiency in the English language of some ATC units is below the desired level and could be a contributory factor for the occurrence of incidents and/or aeronautica accidents.	Oct/1995	a) After the effective date of Amendment to Annex 1, which establishes that the English level required for ATC personnel, the States/Territories/International Organizations, should evaluate the personnel of their ATC units and further provide information regarding the deviation level required in the box "Remarks". b) In order to reach and maintain the English language level required, the States/Territories/International Organizations shall establish a permanent and continuous training plan of ATC units, which contemplates the follow-up of the improvements of personnel of ATC units and shall implement in the same, the ATS quality assurance programme. c) The States/Territories/International Organizations shall demand the personnel who works in ATC units, the English language knowledge to be required by ICAO Annex 1.	Through communication No. NAV/AER/702/02DGAC -0-1-1876 dated 12 November 2002, Bolivia informed that: 1) At the end of 2001 and beginning of 2002, two ATS procedures courses were held in English language, for ATCOs carried out by FAA instructors. 2) During 2002, two courses were carried out for ATCOs, with emphasis in English language phraseology. 3) The requisites for new ATCOs is maintained, English knowledge and test, as of 2002. 4) DGCA informed AASANA on the Audits to ATS units, as of November 2003, and instructed ATCOs on English language. 5) AASANA is aware of ICAO requirements for 2008 on the English language.	CAD Bolivia	Dec 2003	U
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ATM 13 C Use of the aeronautical phraseology	Bolivia	In general, the use of aeronautical phraseology in Spanish and English does not meet the required levels and it is a relevant factor with regard to ATS incidents	Sep/2000	Continuous training and supervision in the use of aeronautical phraseology is required.	Through Note: NAV/AER/702/02DGAC -0-1-1876 del 12 de noviembre de 2002, Bolivia informed that: 1) Aeronautical phraseology included in Doc 4444, last edition 2001, was disseminated to all ATS units personnel, with recommendations for its appropriate use to persons in charge on the supervision. 2.) Supervisors and persons in charge are monitoring on a permanent basis on the use of aeronautical phraseology. 3) The refreshment courses provided at the INAC include the use of the aeronautical phraseology and place special emphasis on ATS personnel training.	CAD Bolivia	Dec 2003	U

CNS

CNS 18 C Radio Navigation Service Plan. Table CNS 3. ILS/DME	Bolivia COCHABAMBA/Jorge Wilsterman	This ILS/DME facility is not implemented	05/1989	This ILS/DME facility has the purpose to provide navigation guidance for approach and landing operations to runway 31	Plans of Bolivia to implement this facility would be presented to GREPECAS meeting WAITING FOR THE ACTION PLAN TO IMPLEMENT ILS	Bolivia	AUGUST 200	A
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MET									
MET 30 C	Adequate number of MET trained staff	Bolivia	There are requirements of specialized meteorology personnel in the aeronautical meteorology field and of an increase of the number of aeronautical meteorologists	22/06/96	To use CAR/SAM technical cooperation regional projects for the training in aeronautical meteorology	To make every effort to have the adequate number of aeronautical meteorologists. They have sent MET personnel to be trained at Argentina. Actions will continue to have enough personnel.	Indicated State	TBD	A
MET 41 C	CAR/SAM ANP MET Requirements, Table AOP 1	Bolivia	All RVR have not been implemented	22/06/96	Installation of SLCB RVR is foreseen for 2002	To ensure the implementation of all required RVR. Two days each year visibility less than 2000 m. (not required).	State	TBD	B
MET 1 C	CAR/SAM ANP, Part VI, para. 3	Bolivia	Do not transmit regularly the special AIREPs in accordance with requirements	22/05/96	Coordinations with ATS are being made for the reception and further dissemination of AIREPs (May 2002)	Disseminate the special AIREPs in accordance with Table FASID MET 2A requirements. This deficiency has been solved through an ATS/MET letter of agreement.	Indicated State	TBD	A

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SAR

SAR	1 C Search and Rescue Facilities CAR/SAM/3 Rec. 6/2	Bolivia SRR La Paz	RCC not implemented. Lack of SAR qualified personnel. Inadequate SAR organization	Oct 95	Needs to comply with FASID Table SAR 1	By Note: NAV/AER/702/02DGAC -0-1-1876 dated 12 November 2002, Bolivia informed that a joint committee DGAC/AASANA/BAF has developed a SAR administrative and operational procedures manual based on the guidance material presented during the ATM/CNS/SG/2 Meeting. The RCC is in operation with operational functions carried out by the Bolivian Air Force. The joint commission DGAC/AASANA/BAF is working in order to obtain government financing, to complete flight material, personnel training and service operational expenses	Bolivia CAD, AASANA and BAF	Jun 03	U
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