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**SUSTAINABLE
FUTURE.**



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Analysis of ANS USOAP Results for the Eastern Caribbean

USOAP ANS Results

Overall Results per Region

USOAP ANS EI NAM/CAR	62.6%
USOAP ANS EI CAR	61.34%
USOAP ANS EI NAM	74.01% (USA results not updated yet)

USOAP ANS Results

Overall Results for Eastern Caribbean States

State	ANS EI %			Last USOAP Missions		
	Overall EI %	CMA Audit	ICVM*	CMA Audit	ICVM-OSVA	
Antigua and Barbuda	48.72%	9.26%	46.3%	Mar-19	Dec-23	
Barbados	51.61%	42.86%	50.49%	Feb-09	Apr-13	
Dominica	48.72%	9.26%	46.3%	Mar-19	Dec-23	
Grenada	48.72%	9.26%	46.3%	Mar-19	Dec-23	
Saint Lucia	48.72%	9.26%	46.3%	Mar-19	Dec-23	
Saint Kitts and Nevis	48.72%	9.26%	46.3%	Mar-19	Dec-23	
Saint Vincent and the Grenadines	48.72%	9.26%	46.3%	Mar-19	Dec-23	
Trinidad and Tobago	80.21%	61.90%	63.81%	Feb-07	Jul-17	OSVA Nov 2017

USOAP ANS Results

Results per Critical Element

State	CE-1	CE-2	CE-3	CE-4	CE-5	CE-6	CE-7	CE-8
Antigua and Barbuda	33%	0%	87.50%	85.71%	100%	33.33%	29.70%	33.33%
Barbados	66.67%	40%	21.43%	23.08%	100%	61.90%	66.67%	16.67%
Dominica	33%	0%	87.50%	85.71%	100%	33.33%	29.70%	33.33%
Grenada	33%	0%	87.50%	85.71%	100%	33.33%	29.70%	33.33%
Saint Lucia	33%	0%	87.50%	85.71%	100%	33.33%	29.70%	33.33%
Saint Kitts and Nevis	33%	0%	87.50%	85.71%	100%	33.33%	29.70%	33.33%
Saint Vincent and the Grenadines	33%	0%	87.50%	85.71%	100%	33.33%	29.70%	33.33%
Trinidad and Tobago	66.67%	60%	93.33%	53.85%	100%	65%	51.22%	83.33%
<i>Subregional Average</i>	<i>41%</i>	<i>13%</i>	<i>80%</i>	<i>74%</i>	<i>100%</i>	<i>41%</i>	<i>37%</i>	<i>37%</i>

USOAP ANS Results

Results per ANS Subarea

State	ANS General	ATS	IFPDS	AIS	CNS	MET	SAR
Antigua and Barbuda	50.00%	56.25%	7.14%	30.77%	100.00%	53.85%	37.25%
Barbados	63.64%	75.86%	46.15%	61.54%	25.00%	46.67%	0.00%
Dominica	50.00%	56.25%	7.14%	30.77%	100.00%	53.85%	37.25%
Grenada	50.00%	56.25%	7.14%	30.77%	100.00%	53.85%	37.25%
Saint Lucia	50.00%	56.25%	7.14%	30.77%	100.00%	53.85%	37.25%
Saint Kitts and Nevis	50.00%	56.25%	7.14%	30.77%	100.00%	53.85%	37.25%
Saint Vincent and the Grenadines	50.00%	56.25%	7.14%	30.77%	100.00%	53.85%	37.25%
Trinidad and Tobago	81.82%	51.72%	84.62%	69.23%	75.00%	86.67%	25.00%
Subregional Average	55.68%	58.14%	21.70%	39.42%	87.50%	57.06%	31.06%

USOAP ANS Results

Critical PQs



7.234

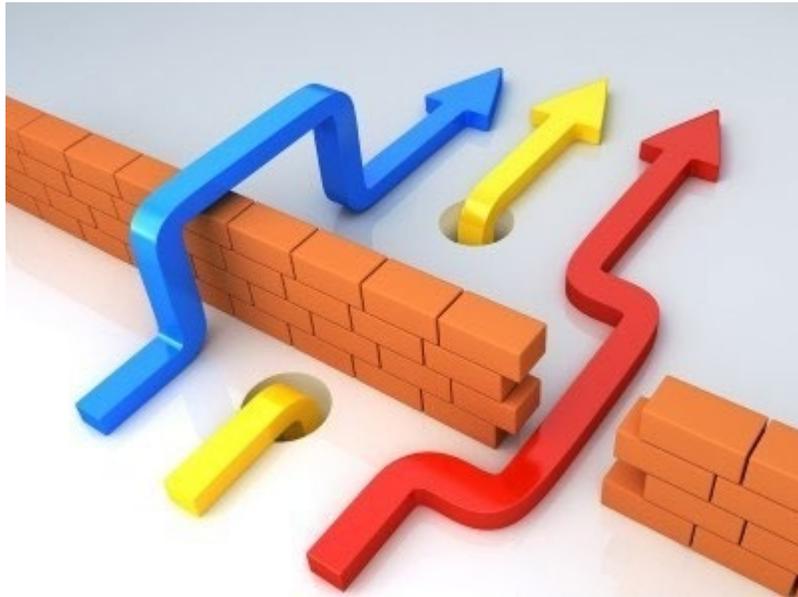
CE-7 Does the State ensure that instrument flight procedures (IFPs) are reviewed periodically (including validation) to ensure that they continue to comply with changing criteria and meet user requirements?

7.393

CE-7 Does the State ensure that requirements for flight inspection are established and periodical flight inspections are provided for radio navigation aids?

Possible Solutions

Instrument Flight Procedures Inspection Project



Enhance the regional instrument flight procedures design capabilities, oversight, and airspace management



Conduct a detailed evaluation of the Piarco Flight Information Region Lower Airspace Design



Support PANS-OPS basic training for selected personnel from Antigua and Barbuda, Barbados, Belize, Trinidad and Tobago and the ECCAA



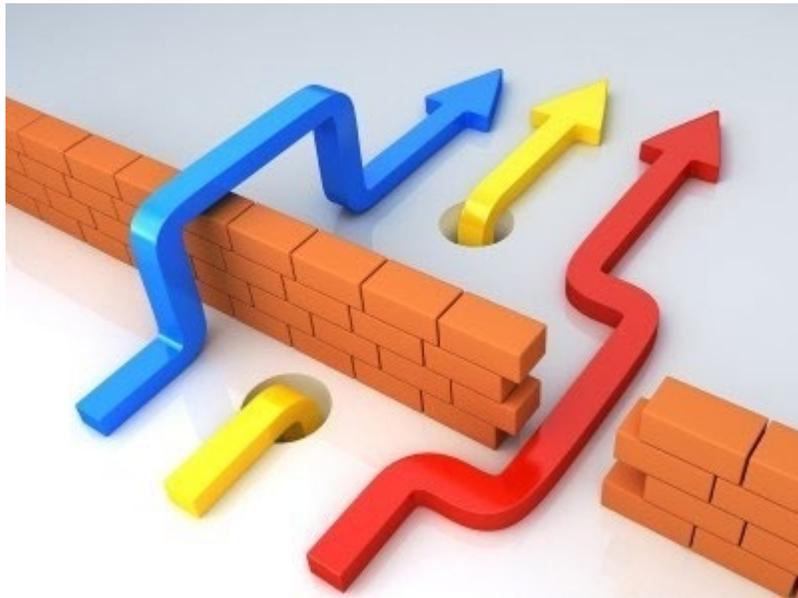
Support PANS-OPS OJT for selected personnel from Antigua and Barbuda, Barbados, Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Trinidad and Tobago and the ECCAA



Provide Instrument Flight Procedures Design Inspector Training for qualified ANS Inspectors of the CAR Region

Possible Solutions

Strengthen SAR Services
under Piarco SRR



Promote basic SAR coordination and response according to the responsibilities accepted by the States in the CAR/SAM RANP



Priority to the full operation of Antigua and Barbados Rescue Subcentres (RSCs)



Promote functioning of alerting posts in all eastern Caribbean States/Territories.
Strengthen Alert Services by promoting LOAs between ATS and RSCs



Collaborate with France to promote the signing of SAR Agreements



Support the organization of SAR Exercises

Key Points to Consider



Barbados and Trinidad and Tobago should be preparing to receive a full USOAP CMA Audit **using 2024 PQs**



Promote regional collaboration for development and update of ANS Regulation.

Guidance material for PANS



Raise awareness of regional challenges for IFPDS and SAR



For Barbados and Trinidad and Tobago, to verify compliance with PQs related to possible SSCs and understand the repercussions of that

Summary of Changes for ANS Protocol Questions - 2024

USOAP CMA 2024 Protocol Questions Air navigation services — ANS

Summary of Changes

New total of ANS Protocol Questions: 117



92 Protocol Questions
Updated Reference



5 Protocol Questions
Eliminated



12 Protocol Questions
Changed from CE-6 to CE-7

No requirement for ANS Certification Process



CE-7 Protocol Questions
Changed to ensure Safety Oversight
Programme is adjusted to the context of
service Provision

ICAO's Universal Safety Oversight Audit Programme (USOAP) 1000 Activities (1999-2023)

(Note: The following table represents a condensed version of the extensive list of countries and years provided in the image. The full list includes 1000 activities from 1999 to 2023 across various regions.)

Algeria: 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023	Algeria: 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023	Algeria: 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023	Algeria: 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
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AUP: Full scope, documentation-based and focused audits
 Other: Other USOAP activities such as evaluation and validation missions
 ICAO Coordinated Validation Mission (CVM)
 SSPIA: State Safety Programme Implementation Assessment
 * International Organizations
USOAP-1000
 Activities 2023
www.icao.int/safety/cmaforum



Protocol Questions Updated Reference

- Changes were introduced due to amendments to the ICAO Reference (ICAO Annexes, PANS and Guidance Material).
- Changes were introduced to ensure alignment between the protocol questions and the ICAO SARPs.
- Changes were introduced to ensure protocol questions are supported by an ICAO requirement.

Protocol Questions Eliminated

5 Protocol Questions were eliminated.

- Protocol questions 7.183, 7.185 were eliminated to be addressed by the SSP assessment.
- Protocol question 7.189 regarding the runway safety programme was eliminated due to lack of ANS related SARP.
- Protocol question 7.403 was eliminated due to lack of SARP related to CNS personnel basic training requirements.
- Protocol question 7.461 was eliminated because was already addressed by another PQ (7.475).

Protocol Questions Changed from CE-6 to CE-7

12 Protocol questions changed from CE-6 to CE-7.

Why?

- No ICAO requirement for ANS certification process.
- Most States address this PQs through their safety oversight programme (CE-7).

CE-7 Protocol Questions Changed

Safety Oversight Programme is adjusted to size and complexity of the ANS Industry

- In order to plan and implement the safety oversight programme for ANS, an analysis for the determination of size and complexity of ANS industry needs to be conducted.
- Number of ANS units, size, types of services provided, etc. are required to be assessed before planning of the safety oversight programme.

Relevant Changes



Most Relevant Changes

7.001

High Seas

To specify the difference between the sovereign airspace and those where the State has accepted responsibility for ANS provision

7.081

Declared ATC Capacity

Separate the capacity calculation from personnel determination, addressed in a separate PQ

7.007

Interception of Civil Aircraft

Specify this is not intended to be applied to State aircraft

7.082

ATFM Implementation

Specify implementation of procedures for each one of the ATFM phases (strategic, Pre-tactical, tactical)

7.057

ATS Inspectorate

Specify that operational and technical experience are commensurate with services required to inspect

7.085

Determination of ATS personnel

Specify the implementation for procedures to determine staffing needs

Most Relevant Changes

7.101 **Recording of ATS Data**
To specify the type of data required to be recorded

7.119 **Standard Phraseology**
Specify how the State ensures application of standard phraseology

7.109 **PBN Implementation**
Specify pre and post implementation safety assessment

7.121 **Airport Maneuvering Area**
Specify arrangements for coordination with airport service providers

7.111 **Separation Minima**
Ensure agreement with adjacent ATS units for applicable separation minima

7.131 **Coordination Arrangements**
Specify the implementation of coordination arrangements between adjacent ATS units and ATS positions

Most Relevant Changes

7.153 **ATS Contingency Plans**
To specify the essential requirements for contingency plans included in Annex 11 Appendix C are considered

7.205 **Flight Procedures Design**
Specify that inspectorate staff is required certificates on flight procedures design

7.229 **Flight Procedures Design Service Provider**
Specify compliance by the service provide organization

7.247 **Flight Procedures Design QMS**
Ensure alignment with SARP

7.253 **Flight Procedures Approval**
Sample of approval records of ANY flight procedures published in the AIP

7.267 **AIS QMS**
Specify QMS achieves continuous improvement of the AIS

Most Relevant Changes

7.361 **AISP Information**
To specify that AISP ensure information is accurate and updated

7.491 **SAR Inspectorate**
Specify specific SAR experience requirements for inspectorate staff

7.513 **RCC Requirements**
Specify communication requirements for RCCs and/or RSCs

7.517 **SAR Agreements**
Note to specify that a regional SAR plan of regional framework is not the means to comply with the bilateral SAR agreement requirement

7.529 **RCC/RSC Staff**
Specify the requirement to implement procedures for the determination of number of SAR personnel and the language proficiency requirements

7.545 **SAREX**
Specify the implementation of actions to address opportunities for improvements identified in the SAREX

Thank You

