



ICAO

UNITING AVIATION

NO COUNTRY LEFT BEHIND



Implementation of Information concerning en-route weather phenomena

[SIGMET, QMS/MET, AND/MET & D-OPMET]

Fourth Meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG4)

Virtual, 31st August – 3rd September 2021

Presented by Met Project 1 PTC: Maluta Tshifaro



. Introduction

2 Discussion

- 2.1 Scope
-
- 2.2 Actions undertaken
-
- 2.3 Challenges and solutions
-
- 2.4 Way forward
-

3 Action by the meeting

- 3.1 The meeting is invited to.....
-
-
- 3.2 Draft Conclusion/Decision

That :

.....
.....



Introduction

APIRG IIM SG Meteorology Project 1 and its main objective being to assist the AFI states with the implementation of:

- a) SIGMET, Standard & Recommended practice
- b) Quality Management System (QMS/MET)
- c) Air Navigation deficiencies in MET field
- d) Developing capability of handling OPMET data in digital format (GML/XML)

Tasks of this Project team are undertaken by nominated experts from States.

South Africa is the Project-Team Coordinator (PTC) and the Project Facilitators are the MET Regional Officers (ROs/MET) from ICAO AFI regional Offices (Dakar and Nairobi).

In the beginning of 2021, the team have agreed to meet once every two months and progress made will be shared through the presentation of this paper.



Discussion

- IIMSG MET Project I Progress Report*

2.1. Conclusions 20,21,22 & 27 of the APIRG 23 formulated several intervention areas to improve the coordination mechanisms of the IIM Projects

NO	TASK	RESPONSIBLE PERSON	PLANNED DATE	COMMENTS / STATUS
1	PTC and experts appointment finalisation	States/Organisations	Immediately (2018)	Completed
2	Project Team Activities	PTC	2018 and Updated in August 2020	Completed
3	Project Terms of Reference (ToR) and Description	PTC and Team Members	2018 and revised in March 2020	Completed
4	Project link finalisation	PTC	August 2018 Amendment in process	Completed Linkage with AAO not finalized
5	Project Questionnaires	PTC and Team Members	2020 and January 2021	Distributed and Analysed 1. QMS: Implementation Status 2. D-OPMET: Implementation Status
6	Project Costing	PTC	2021	Completed
7	Project Deliverables	Workstream leaders	January 2021 – December 2022	SIGMET : SIGMET Guide and SIGMET Trial Procedure reviewed QMS : Questionnaire Distributed and out come analysed



IIM SG Met Project 1 questionnaires

2.1 Three questionnaires were developed (QMS, D-OPMET, AND/Met)

IWXXM Training

2.2. APIRG 20 Resolution 20/45, training/seminars

- (a) develop capacity building for handling OPMET data in digital format; and
- (b) to increase awareness to users of exchange of OPMET in digital format and expedite transition for handling OPMET in digital form

2.3. Planned IWXXM Workshop

25th August 2021, and the questionnaire to assess implementation level distributed through State Letter ES AN 8/4-0239

From previous survey:

- 50% of participants indicated that they have developed infrastructure capability
- 14% willing to enter into bilateral/multi-lateral agreement
- Implementation rate was 30%
- Participation rate was not satisfactory



Implementation of Quality Management System

- In line with Amendment 79 to the International Standards and Recommended Practices, Meteorological Service for International Air Navigation (Annex 3 to the International Convention on International Civil Aviation) and APIRG conclusion 23/27.
- ICAO Doc 9873 (Manual on the Quality Management System for the Provision of Meteorological Service for International Air Navigation) was replaced by WMO.Doc No. 1100 (Guide to the Implementation of Quality Management Systems for National Meteorological and Hydrological Services and other Relevant Service Providers).
- National Meteorological and Hydrological Services were informed through State Letter No.AN 10/1.1-20/16 issued by the ICAO Office. This was followed by State Letter No. T10/27 – 0127 informing States about the Virtual workshop on the implementation of quality management system for Aeronautical Meteorological Service providers.
- The link to the QMS questionnaire was distributed to States through State Letter ES AN 1/6 – 0018 on the 4th March 2021. The questionnaire was meant to establish the implementation level of QMS within the AFI region.
- Analysis of the outcome of the questionnaire shows that :

1. Participation was not satisfactory
2. 24 States responded to the survey and 20 of which are ISO 9001 :2015 certified, with four (4) on the advanced implementation stage.
3. Based on the participation States ; the implementation level is at 98% whilst the certification level at 83,3%.



Annual AFI SIGMET Tests

2.5. The annual AFI SIGMET Test was conducted on the 2nd , 3rd , and 4th November 2020. Based on the results of the AFI SIGMET Trials, IIM SG Met Project 1 team noted the increase on the participation rate by the Meteorological Watch Offices from:

- 20% to 80% on the SIGMET Test for WC
- 13.79% to 31.03% on the SIGMET Test for WV
- 27.58% to 51.72% on the SIGMET Test for WS

There have been an improvement in terms of participation, AFI States are urged to participate in future Annual SIGMET tests and those with identified deficiencies should be encouraged to address them.

2.6 Several reasons could have contributed to the lack of participation in the SIGMET tests:

- The need to review the AFI SIGMET Guide, and
- The AFI SIGMET trial procédures, attached as Appendix A to this paper.

2.7 The meeting is also invited to note that the 2021 Annual AFI SIGMET Tests will be conducted from the 1st to 3rd December 2021. Details on the coming Annual SIGMET Tests will be shared through a State Letter.



IIM SG Met Project 1 costing

2.8. The calculated project costing is attached (Appendix X) for consideration by the meeting.

- Considering the number of planned meetings that the team have agreed on,
- The number of deliverables as in the project description

The cost of on-site mission/workshop/Training has been calculated to be approximately **\$ 84 349,84**, whilst the online mission/workshop/training has been calculated to be **\$ 58 730,64**.



Challenges and Way forward

. Introduction

2 Discussion

- 2.1 Scope
-
- 2.2 Actions undertaken
-
- 2.3 Challenges and solutions
-
- 2.4 Way forward
-

3 Action by the meeting

- 3.1 The meeting is invited to.....
-
-
- 3.2 Draft Conclusion/Decision

That :

.....
.....



Action by the meeting

. Introduction

2 Discussion

- 2.1 Scope
-
- 2.2 Actions undertaken
-
- 2.3 Challenges and solutions
-
- 2.4 Way forward
-

3 Action by the meeting

- 3.1 The meeting is invited to.....
-
-
- 3.2 Draft Conclusion/Decision

That :

.....
.....



ICAO

UNITING AVIATION



ICAO

North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU