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Regional Awareness Seminar on AFI ATM VACP



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Outline

- Volcanic Ash Awareness for AFI Region – origin
- Outcome of APIRG/19 Meeting on VACP
- Volcanic Ash – ICAO guidance material





Volcanic Ash Awareness for AFI - origin

- Introduced through APIRG mechanism
- **APIRG/18: Decision 18/13: Establishment of the AFI ATM/MET Task Force**

That the Core Team of experts established under APIRG Decision 17/84 is dissolved, and the AFI ATM/MET Task Force be established with the terms of reference and work programme as at Appendix 3.2H to the report on agenda item 3.2.



Volcanic Ash Awareness for AFI - origin

- Taken up by APIRG/18 Meeting
- **APIRG/18: Decision 18/13: Establishment of the AFI ATM/MET Task Force**

Conclusion 17/84 establishing a Core Team of Experts to collect and study information on the impact of the global Air Traffic Management Operational Concept on the provision of Aeronautical Meteorological Services in the AFI Region



Volcanic Ash Awareness for AFI - origin

- Outcome brought to APIRG/18 Meeting
- Need was identified by the MET Sub-Group
- A working paper was presented and discussed under '*New challenges facing AFI Meteorological Services*'
- Material derived from the 2nd and 3rd meetings of the International Volcanic Ash Task Force.



Volcanic Ash Awareness for AFI - origin

APIRG/18 Meeting – Volcanic Ash (under ATM/SG)

The Group discussed safety issues related to volcanic ash and recalled the various hazards to flight operations that accompany volcanic ash, such as engine failures and malfunctions, communication problems including loss of visibility.



Volcanic Ash Awareness for AFI - origin

The Group noted the developments following the Iceland's Eyjafjallajökull volcano eruption in April 2010 and subsequent recognition of the need to develop global response mechanisms.

The Group also recognized that within and adjacent to the AFI Region there are areas of volcanic activity which are likely to affect flight operations.



Volcanic Ash Awareness for AFI - origin

- It was further agreed that the Secretariat of the MET and ATS/AIM/SAR Sub-Groups will review and update the draft AFI Volcanic Ash Contingency Plan (VACP).
- Once the plan was finalized, it should be made available to States for immediate implementation.



Volcanic Ash Awareness for AFI - origin

- Furthermore, for better understanding and involvement of AFI States in the VACP, it was considered desirable to conduct regional awareness seminars.



Volcanic Ash Awareness for AFI - origin

As a result, APIRG/18 formulated 2 Conclusions:
Conclusions 18/14 and Conclusion 18/53



Volcanic Ash Awareness for AFI - origin

Conclusion 18/14: Establishment of the AFI Volcanic Ash Contingency Plan

That:

a) The ATM/AIM/SAR and MET Sub-Groups finalize development of the AFI VACP; and



Volcanic Ash Awareness for AFI - origin

b) The Plan be provided to States for implementation without awaiting the next meeting of APIRG.



Volcanic Ash Awareness for AFI - origin

Conclusion 18/53: Awareness Seminars on the AFI Air Traffic Management Volcanic Ash Contingency Plan

That ICAO Dakar and Nairobi Regional Offices through the ATM/MET Task Force, conduct regional awareness seminars on the AFI ATM Volcanic Ash Contingency Plan in view of:



Volcanic Ash Awareness for AFI - origin

- a) *Making all aviation stakeholders in the AFI region aware of the ATM VACP;*
- b) *Supporting its implementation; and*
- c) *Proposing further improvements to the plan.*



Outcome of APIRG/19 Meeting on VACP

ATM Contingency Arrangements

Pursuant to APIRG Conclusion 18/14, the Group adopted a volcanic ash contingency plan (VACP) and agreed that it should be part of the ATM contingency plan as an Appendix thereto. Given that part of the initial tasks of the ATM/MET Task Force had been achieved, the terms of reference of the Task Force were revised and the following Conclusion (19/19) was formulated:



Outcome of APIRG/19 Meeting on VACP

Conclusion 19/10: Integration of the Volcanic Ash Contingency Plan to the Air Traffic Management Contingency Plan

That, the AFI Volcanic Ash Contingency Plan be integrated as an Appendix to the AFI ATM Contingency Plan.

Note: Out of 14 ATM CPs received by ESAF Office, only 5 received with VACP incorporated.



Outcome of APIRG/19 Meeting on VACP

Conclusion 19/10: Integration of the Volcanic Ash Contingency Plan to the Air Traffic Management Contingency Plan

Example of a State ATM Contingency Plan incorporating the AFI VACP.....



Volcanic Ash – ICAO Guidance Material

Doc 9766-AN/968:

Handbook on the International Airways Volcano Watch (IAVW)- *‘Operational Procedures and Contact List’*



Volcanic Ash – ICAO Guidance Material





ICAO Guidance Material – Doc 9766

Part 2:

Volcanic ash advisory centres (VAACs) designated by ICAO



ICAO Guidance Material – Doc 9766

Part 4:

International Airways Volcano Watch – Operational procedures for the dissemination of information on volcano eruptions and associated volcanic ash clouds in areas which could affect routes used by international flights, and necessary arrangements prior to a volcanic eruption.



ICAO Guidance Material – Doc 9766

Part 4:

4.1: Procedure prior to a volcanic eruption.

4.2: Action to be taken by the State volcano observatory in the event of a volcanic eruption.

4.3: Action to be taken by the ACC in the event of a volcanic eruption.



ICAO Guidance Material – Doc 9766

Part 4:

4.4: Action to be taken by the NOF in the event of a volcanic eruption.

4.5: Action to be taken by the MWO in the event of a volcanic eruption.

4.6: Action to be taken by the VAACs

4.7: Action to be taken by operators



ICAO Guidance Material – Doc 9766

Part 4:

4.8: Action to be taken by VAACs or MWOs regarding volcanic ash test procedures.

4.11: Guidance for conducting volcanic ash exercises in ICAO regions.



ICAO Guidance Material – Doc 9766

Part 4:

Appendix A: Sample letter of agreement between the air traffic services, meteorological authorities and vulcanological authorities.

Appendix E: Volcano observatory notice for aviation (VONA) format.



ICAO Guidance Material – Doc 9766

Part 4:

Appendix F: Guidance for conducting volcanic ash exercise in ICAO regions.





How prepared are we?



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