



**International Civil Aviation Organization**

**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP (APIRG)  
METEOROLOGY SUB-GROUP NINTH MEETING (MET/SG/9)**

(Dakar, Senegal, 21-23 June 2009)

**Agenda Item 2: Review of APIRG Conclusions and Decisions**

*(Presented by the Secretariat)*

**SUMMARY**

This paper presents the Conclusions and Decisions from MET/SG Meetings and Special RAN Meeting( Durban, South Africa, 24-29 November, 2008) with information on on action taken and status of validity.

**1. Introduction**

1.1 Past MET/SG meetings formulated a number of Conclusions and Decisions for appropriate actions by APIRG. The Special RAN Meeting held in Durban, South Africa, from 24 to 29 November, 2008( SP AFI RAN 2008) developed specific recommendations in Meteorology which has significant aviation safety impact. Subsequently, various actions were taken by the Air Navigation Commission, the ICAO Council and the Regional Offices.

1.2 **Attachment A** provides the list of decisions and conclusions of the MET/SG and action taken.

**2. Discussion**

2.1 The Secretariat has reviewed the list of valid decisions and conclusions as shown in **Attachment A**.

**2.2 Actions proposed**

The MET/SG is invited to review progress so far made on the implementation of these decisions and conclusions and to note the actions taken so far.



REPORT REFERENCE	ACTION BY	CONCLUSION OR DECISION TITLE AND ACTION REQUIRED
		ON THE ACCURACY OF THE SIGWX TEST CHARTS RECEIVED.  ACTION ON-GOING.
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6) MET/SG Con.4/10 APIRG Con. 12/40	States, VAAC, Toulouse, ICAO	<b>TRAINING IN THE PREPARATION AND ISSUANCE OF VOLCANIC ASH ADVISORIES AND SIGMETs</b>  THAT, STATES CONCERNED SHOULD CONDUCT REGULAR EXERCISES IN COOPERATION WITH THEIR VAAC AT THEIR METEOROLOGICAL WATCH OFFICES (MWOs) ON THE PREPARATION AND ISSUANCE OF VOLCANIC ASH ADVISORIES AND SIGMETs IN ORDER TO KEEP THEIR AERONAUTICAL METEOROLOGICAL FORECASTERS CURRENT WITH THE PROCEDURES.  ACTION ON-GOING. TWO TESTS WERE CONDUCTED BY THE REGIONAL OFFICES IN FEBRUARY AND JUNE 2009. THE RESULTS OF WHICH WILL BE PRESENTED TO THE MEETING.
7) APIRG Con. 13/68	States	<b>BETTER COMMUNICATIONS FOR VOLCANO OBSERVATORIES</b>  THAT STATES CONCERNED MAKE EFFORTS TO ESTABLISH RELIABLE COMMUNICATIONS LINKS BETWEEN THEIR VOLCANO OBSERVATORIES AND METEOROLOGICAL WATCH OFFICES (MWOs) AND AREA CONTROL CENTRES (ACCs).  ACTION ON-GOING
8) MET/SG Con. 6/2 APIRG Con. 14/32	States	<b>NEED FOR LATEST VERSION OF WORKSTATION SOFTWARE</b>  THAT STATES IN THE AFI REGION BE ENCOURAGED TO ACQUIRE THE LATEST VERSION OF WORKSTATION SOFTWARE FROM THEIR RESPECTIVE WORKSTATION SUPPLIERS FOR THE USE OF GRIB AND BUFR CODES  ACTION ON-GOING
9). MET/SG Con. 6/8 APIRG Con. 14/37	States	<b>CONCLUSION 14/37: COST RECOVERY OF AERONAUTICAL METEOROLOGICAL SERVICES</b>  THAT, WHEN ESTABLISHING A COST RECOVERY SYSTEM FOR AERONAUTICAL METEOROLOGICAL SERVICES, STATES IN THE AFI REGION USE RELEVANT ICAO AND WMO DOCUMENTS AND COOPERATE WITH AIRPORTS, AIR NAVIGATION SERVICES AND OTHER AERONAUTICAL PARTNERS, INCLUDING USERS.  ON-GOING.
10) APIRG Con. 14/38	WMO and Secretariat	<b>SEMINARS ON COST RECOVERY OF AERONAUTICAL METEOROLOGICAL SERVICES</b>  THAT WMO IN CO-ORDINATION WITH ICAO ORGANIZE SEMINARS ON COST RECOVERY OF AERONAUTICAL METEOROLOGICAL SERVICES FOR STATES REQUIRING THEM.

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		ACTION ON-GOING
11) MET/SG Con. 6/9 APIRG Con. 14/39	States	<p><b>AUTONOMOUS ENTITIES AND METEOROLOGICAL SERVICE FOR AIR NAVIGATION</b></p> <p>THAT STATES IN THE AFI REGION WHEN CONSIDERING THE ESTABLISHMENT OF AUTONOMOUS ENTITIES TO MANAGE THEIR AIR NAVIGATION SERVICES, TAKE DUE ACCOUNT OF THE PROVISION OF METEOROLOGICAL SERVICE TO AIR NAVIGATION.</p> <p>ACTION ON-GOING</p>
12) MET/SG Con. 6/10 APIRG Con. 14/40	States	<p><b>QUALITY MANAGEMENT</b></p> <p>THAT STATES IN THE AFI REGION GIVE PRIORITY TO IMPLEMENTATION OF A QUALITY MANAGEMENT SYSTEM (ISO 9000 SERIES OF STANDARDS) IN ORDER TO IMPROVE METEOROLOGICAL SERVICE FOR INTERNATIONAL AIR NAVIGATION.</p> <p>ACTION ON-GOING. SEE ALSO APIRG CONCLUSION 16/59</p>
13) APIRG Con. 14/41	Secretariat	<p><b>STUDY OF TRAINING AVAILABLE FOR AERONAUTICAL METEOROLOGICAL PERSONNEL IN THE AFI REGION</b></p> <p>THAT AS A FOLLOW-UP ACTION ON RECOMMENDATION 10/26 OF LIM AFI (COM/MET/RAC) 1988 AND RECOMMENDATION 14/17 OF AFI/7, 1997, REGIONAL OFFICES DAKAR AND NAIROBI CARRY OUT THE STUDY OF TRAINING AVAILABLE FOR AERONAUTICAL METEOROLOGICAL PERSONNEL IN THE AFI REGION.</p> <p>ACTION UNDERWAY.</p>
14) APIRG Con. 14/42	Secretariat and WMO	<p><b>SEMINARS ON ATS/MET/PILOT COORDINATION</b></p> <p>THAT ICAO, IN CO-ORDINATION WITH WMO, ORGANIZE SEMINARS ON ATS/MET/PILOT CO-ORDINATION FOR THE AFI REGION.</p> <p>ACTION ON-GOING. SEMINARS SCHEDULED FOR 20100</p>
15) APIRG Con. 15/81	WAFC, London	<p><b>TRAINING FOR THE USE OF GRIB AND BUFR CODES</b></p> <p>THAT THE UNITED KINGDOM, IN COORDINATION WITH ICAO AND WMO, BE INVITED TO CONSIDER PROVIDING TRAINING FOR THE USE OF GRIB AND BUFR CODES TO THOSE AFI STATES WHICH HAVE NOT BENEFITED FROM PREVIOUS TRAINING SEMINARS.</p> <p>ACTION DEFERRED DUE TO LACK OF FUNDING.</p>
16) APIRG Con. 15/82	States	<p><b>PROCUREMENT OF THE NECESSARY SADIS 2G HARDWARE</b></p> <p>THAT SADIS USERS IN THE AFI REGION BE INVITED TO:</p> <p>A) PROCURE THE NECESSARY SADIS 2G HARDWARE WELL AHEAD OF THE TERMINATION OF THE 1G SERVICE ON 31 DECEMBER 2008,</p> <p>A) ACTION TAKEN BY THE MAJORITY OF STATES AND IN SOME CASES STATES HAVE OPTED FOR THE FTP SERVICE.</p>
17) APIRG Con. 15/91	WMO, Secretariat	<b>PREPARATION OF THE VOLCANIC ASH HEADER LIST FOR THE</b>

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		<p><b>AFI REGION</b></p> <p>THAT WMO, IN CONSULTATION WITH THE ICAO AND THE STATES, BE INVITED TO PREPARE THE VOLCANIC ASH SIGMET HEADER LIST FOR THE AFI REGION ON THE BASIS OF THE CURRENT SIGMET HEADER LIST AND REPLACING “WS” WITH “WV” IN THE HEADERS.</p> <p>ACTION COMPLETED AND WERE USED DURING THE SIGMET TESTS</p>
18) APIRG Con.16/48	States	<p><b>RESPONSE BY STATES TO ICAO AFI REGIONAL OFFICES STATE LETTERS</b></p> <p>THAT STATES RESPOND PROMPTLY TO ICAO AFI REGIONAL OFFICES STATE LETTERS THAT SOLICIT INFORMATION ON THE STATUS OF IMPLEMENTATION OF THE RELEVANT DECISIONS OF THE MET/SG AND THE MET-RELATED CONCLUSIONS AND DECISIONS OF APIRG.</p> <p>ACTION ON GOING</p>
19) APIRG Con. 16/49	W AFC, LONDON	<p><b>TRAINING SEMINAR ON THE USE OF ICING, TURBULENCE AND CONVECTIVE CLOUDS FORECASTS IN GRIB2 CODE FORM</b></p> <p>THAT THE W AFC LONDON PROVIDER STATE BE INVITED, IN COORDINATION WITH ICAO AND WMO TO PROVIDE TRAINING SEMINARS ON THE USE OF ICING, TURBULENCE AND CONVECTIVE CLOUDS FORECASTS IN GRIB 2CODE FORM TO STATES</p> <p>STILL OUTSTANDING FOR IMPLEMENTATION IN 2010</p>
20) APIRG DEC. 16/50	ICAO Secretariat	<p><b>INDICATION OF THE TYPE OF VSAT IN THE FASID TABLE MET; IMPLEMENTATION OF SADIS IN TH AFI REGION</b></p> <p><b>THAT INFORMATION RELATED TO THE TYPE OF TH VSAT STATION BE INCLUDED IN THE FASID TABLE MET 7 OF THE AFI PLAN AS PRESENTED IN APPENDIX J TO THIS REPORT</b></p> <p>ACTION</p>
21) APIRG Con. 16/51	States	<p><b>SADIS FTP ACCOUNTS</b></p> <p>THAT APPROVED SADIS USERS IN THE AFI REGION WHO HAVE INTERNET CAPABILITIES AND DO NOT HAVE AN ACTIVE SADIS FTP ACCOUNT WRITE TO THE SADIS PROVIDER STATE TO HAVE AN ACCESS ACCOUNT</p> <p>ACTION ON-GOING. SEVERAL STATES HAVE APPLIED AND ACCORDED ACCESS ACCOUNT BY THE SADIS PROVIDER</p>
22) APIRG Con. 16/52	ICAO Secretariat	<p><b>AVAILABILITY ON SADIS OF ASHTAMs AND NOTAMS RELATED TO VOLCANIC ASH(VA)</b></p> <p>THAT, IN ORDER TO IMPROVE THE AVAILABILTY ON SADIS OF ASHTAMs NOTAMs RELATED TO VA, THE ICAO AFI REGIONAL OFFICES IN THE AFI REGION REMIND STATES OF THE REQUIREMENT TO TRANSMIT ALL ASHTAMs AND NOTAMs RELATED TO VA TO THE AFTN ADDRESS EGZZVANW</p> <p>ACTION COMPLETED</p>
23) APIRG Con. 16/53	ICAO Secretariat	<p><b>SADIS STRATEGIC ASSESSMENT TABLES</b></p>

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		<p>THAT THE AFI SADIS STRATEGIC ASSESSMENT TABLES AS PRESENTED TO APPENDIX K TO THIS REPORT BE ADOPTED AND FORWARDED TO THE SADISOPSG FOR PLANNING THE FUTURE OF THE SADIS BANDWIDTH</p> <p>ACTION COMPLETED AT THE SADISOPSG/14</p>
24) APIRG Dec. 16/54	ICAO Secretariat	<p><b>AFI OPMET Management Task Force (AFI OPMET/M TF)</b></p> <p>That, an AFI OPMET Management Task Force with the terms of reference at the Appendix F be established.</p> <p>ACTION COMPLETED</p>
25) APIRG Dec. 16/55	ICAO Secretariat	<p><b>INCLUSION OF REGIONAL OPMET DATA BANKS AND SIGMET REQUIREMENTS IN THE AMBEX HANDBOOK</b></p> <p>ACTION COMPLETED</p>
26) APIRG CON. 16/56	ICAO Secretariat	<p><b>ADOPTION OF PROCEDURES FOR CONDUCTING VA SIGMET TESTS FOR THE AFI REGION</b></p> <p>THAT:</p> <p>1) THE ICAO REGIONAL OFFICES IN THE AFI REGION:</p> <p>A) ASSUME THE RESPONSIBILITY FOR THE DEVELOPMENT OF ADDRESSEES RELATED TO THE VOLCANIC ASH ADVISORIES (VAA) COMING FROM THE VOLCANIC ASH ADVISORY CENTRE (VAAC), TOULOUSE AND INTENDED FOR THE AFI REGION;</p> <p>B) MAKE AVAILABLE TO INTER-REGIONAL OPMET GATEWAY (IROG), TOULOUSE ,WMO HEADERS THAT WOULD FACILITATE THE</p>

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		<p>ESTABLISHMENT OF RECEPTION TESTS FOR VOLCANIC ASH ADVISORIES (VAA) WITHIN REASONABLE TIME LIMITS;</p> <p>C) REQUEST THOSE STATES MAINTAINING METEOROLOGICAL WATCH OFFICES (MWOS) IN THE AFI REGION TO IMPLEMENT WMO HEADINGS FOR VOLCANIC ASH SIGMET AND TRANSMITTED BY THOSE MWOS AND MAKE THEM AVAILABLE TO IROG TOULOUSE; AND</p> <p>2) THE PROCEDURES AT THE APPENDIX N BE ADOPTED FOR USE IN SIGMETS TESTS IN THE AFI REGION AFTER ACTION HAD BEEN COMPLETED ON ITEMS A) TO C). ABOVE.</p> <p>ACTION COMPLETED</p>
27) APIRG 16/57	WMO, ICAO, VAAC, TOULOUSE	<p><b>SIGMET WORKSHOPS</b></p> <p>THAT WMO, IN COORDINATION WITH ICAO AND VAAC TOULOUSE PROVIDER STATE CONDUCT TWO TRAINING WORKSHOPS ONSIGMET DURING 2008, ONE IN ENGLISH AND ANOTHER IN FRENCH FOR THE AFI REGION.</p> <p>TWO WORKSHOPS WERE CONDUCTED DURING 2008 IN WHICH AFI PERSONNEL PARTICIPATED, ONE IN DAKAR(ICA0) AND ANOTHER IN YEMEN (WMO)</p>
28) APIRG Con16/58	States	<p><b>LEGAL FRAMEWORK FOR AERONAUTICAL METEOROLOGICAL SERVICES</b></p> <p>THAT STATES IN IMPLEMENTING COST RECOVERY FOR AERONAUTICAL METEOROLOGICAL SERVICES IN ACCORDANCE WITH APIRG CONCLUSIONS 14/37 AND 14/38 PUT IN PLACE A NATIONAL LEGAL FRAMEWORK FOR AERONAUTICAL METEOROLOGICAL SERVICES WHICH INCLUDE COST RECOVERY ARRANGEMENTS.</p>

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		ACTION ON GOING
29) APIRG Con. 16/59	WMO, ICAO	<p style="text-align: center;"><b>SUPPORT TO STATES IMPLEMENT QUALITY MANAGEMENT SYSTEMS (QMS)</b></p> <p style="text-align: center;">THAT: WMO IN COORDINATION WITH ICAO CONTINUE TO ASSIST STATES IN IMPLEMENTING QMS IN THE FORM OF:</p> <ol style="list-style-type: none"> <li>1) SEMINARS ON QMS FOR THE CHIEF EXECUTIVES OF METEOROLOGICAL AUTHORITIES (CEOS) AS A PRIORITY AND REQUEST THEM (CEOS) TO REPORT ON STATUS OF IMPLEMENTATION ON QMS IN THEIR SERVICES ON A REGULAR BASIS;</li> <li>2) SUPPORT FOR MORE DETAILED TRAINING FOR PERSONNEL WHO WOULD ACT AS A CORE GROUP IN THE REGION (TRAINING OF TRAINERS);</li> <li>3) ATTACHMENTS OF STAFF FROM THE REGION TO STATES THAT HAVE ALREADY ADOPTED QMS THROUGH VCP OR OTHERWISE; AND</li> <li>4) FINANCIAL RESOURCES FOR ENGAGING CONSULTANCY SERVICES DURING THE INITIAL STAGES OF IMPLEMENTATION.</li> </ol> <p style="text-align: center;">ACTION ON GOING</p>
30) APIRG Con. 16/60	ICAO Secretariat	<p style="text-align: center;"><b>REGIONAL METEOROLOGICAL PROCEDURES</b></p> <p style="text-align: center;">THAT THE REGIONAL METEOROLOGICAL PROCEDURES GIVEN AT APPENDIX O TO THE REPORT REPLACE THE EXISTING REGIONAL PROCEDURES OF THE AFI ANP/FASID (DOC 7474).</p> <p style="text-align: center;">ACTION</p>
31) APIRG Dec.16/61	States	<p style="text-align: center;"><b>INTRODUCTION OF 30-HOUR TAF IN THE AFI REGION</b></p> <p style="text-align: center;">THAT INTERNATIONAL AERODROMES IN THE AFI REGION, AS APPLICABLE IN AMENDMENT 74 TO ANNEX 3 IN THE AFI REGION WITH THE CAPABILITY SHOULD ISSUE 30-HOUR TAF FROM 5 NOVEMBER 2008, AND THOSE WITH LIMITED CAPABILITY SHOULD ADVISE THE REGIONAL OFFICES ACCORDINGLY. A FURTHER</p>

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		<p>ASSESSMENT PERIOD BE EXTENDED TO JUNE 2009 FOR THOSE UNABLE TO IMPLEMENT.</p> <p>ACTION COMPLETED</p>
32) APIRG Con. 16/62	ICAO Secretariat	<p><b>Review and updating of FASID Table MET 1A</b></p> <p>That:</p> <p>a) FASID Table MET 1A be replaced by single link (i.e. a URL address) to the global database to be developed by the Secretariat in line with SADISOPSG Conclusion 11/9; and</p> <p>b) Columns 6 and 7 in FASID Table MET 1A (the database to be re-named “Forecasts (TAF and TREND) to be issued for international aerodromes”) be deleted.</p> <p>ACTION COMPLETED</p>
33) APIRG Con. 16/63	ICAO Secretariat	<p><b>Deletion of FASID Table MET 2B</b></p> <p>THAT FASID TABLE MET 2B BE DELETED FROM THE ICAO AFI FASID SINCE THE REQUIREMENTS FOR SIGMET ARE COVERED IN THE ANP BASIC (BORPC AND REGIONAL METEOROLOGICAL PROCEDURES</p> <p>ACTION COMPLETED</p>
34) APIRG Dec. 16/64	Chair, MET/SG	<p><b>COORDINATION BETWEEN WMO REGIONAL ASSOCIATION 1 (AFRICA) AND APRIG ON AERONAUTICAL METEOROLOGY</b></p> <p>THAT, THE CHAIRPERSON OF THE METEOROLOGY SUB-GROUP LIAISE WITH THE WMO RAPPORTEUR FOR AERONAUTICAL METEOROLOGY PROGRAMME FOR REGIONAL ASSOCIATION1(AFRICA) ON MATTERS OF COMMON INTEREST WHEN REQUIRED.</p> <p>ACTION ON GOING</p>
SP RAN(2008) Rec. 6/15	APIRG	<p><b>FOSTER THE IMPLEMENTATION OF SIGMET AND QMS IN THE AFI REGION</b></p> <p>THAT APIRG ADOPT THE MET PERFORMANCE OBJECTIVE: FOSTER THE IMPLEMENTATION OF SIGMET AND QUALITY MANAGEMENT SYSTEM(QMS) IN THE AFI REGION AS CONTAINED IN THE PERFORMANCE FRAMEWORK FORM AT APPENDIX F TO THE REPORT ON AGENDA ITEM 6</p> <p>ACTION STILL TO BE TAKEN BY APIRG</p>

<b>REPORT REFERENCE</b>	<b>ACTION BY</b>	<b>CONCLUSION OR DECISION TITLE AND ACTION REQUIRED</b>
SP RAN(2008) Rec. 6/16	ICAO(ACIP)	<p><b>TECHNICAL AND FINANCIAL SUPPORT FOR THE IMPLEMENTATION OF QUALITY MANAGEMENT SYSTEMS IN THE AFI REGION</b></p> <p>THAT ICAO IDENTIFY POTENTIAL SOURCES OF TECHNICAL AND FINANCIAL SUPPORT FOR STATES FOR THE IMPLEMENTATION OF QUALITY MANAGEMENT SYSTEMS(QMS) IN METEOROLOGY</p> <p>ACTION ON GOING</p>
SP RAN(2008) Rec. 6/17	APIRG	<p><b>IMPLEMENTATION OF TERMINAL AREA WARNINGS AND FORECASTS, PROVISION OF WAFS FORECASTS AND OPTIMIZATION OF OPMET DATA EXCHANGES AND TRAINING FOR EARONAUTICAL METEOROLOGICAL STAFF</b></p> <p>APIRG STILL TO TAKE ACTION ON THE RECOMMENDATION</p>

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