## **METEOROLOGY PROJECT.1**

AFI Region	Project Description					
Programme	Title of the Project	Start	End			
Aeronautical Meteorology	Implementation of information concerning en-route weather phenomena which may affect the safety of aircraft operations (SIGMET), Quality Management System for aeronautical meteorology (QMS/MET) service, in the AFI region		2018			
(B0-AMET PFF Project Facilitators: ICAO ROs/MET, Dakar & Nairobi)	<b>B0-AMET PFF-1</b> Project-Team Coordinator: South Africa 12 Experts contributing to the <b>B0-AMET PFF-1</b> South Africa, Niger, Nigeria, Togo, Uganda, IATA, ASECNA, Mauritania, Côte d'Ivoire, WMO, Guinea,					
	Assist States in the implementation of :					
Objective	a) SIGMET and standards and recommended practices of Annex 3 and Part V – MET of the AFI Air Navigation Plan (ANP), Volum II, III concerning the issuance and distribution of en-route weather phenomena including volcanic ash clouds (WV), tropical cyc (WC) and other phenomena (WS - thunderstorms, severe turbulence, icing, mountain waves, heavy sandstorms and duststorm), to affect the safety of aircraft operations, and the evolution of such phenomena in time and space (SIGMET WV, WC and WS);					
	b) QMS/MET and certification where applicable, by developing a regional QMS/MET guide to assist States in the production MET documentation under ISO 9001: 2008, enhancing the training of MET personnel in States that have not implemented Q encouraging States to institute cost recovery mechanism to support QMS maintenance in accordance with ICAO Annex 3 and Part MET of the AFI ANP, and conducting audit trials;					
	c) An action plan to assist concerned States in their effort to remove air navigation deficiencies in the MET field listed in and	the APIRO	G report;			
	d) The transition plan from current aeronautical meteorological information to the future SWIM-enabled environment by encouraging AFI States to progressively develop capability of handling OPMET data in digital format (XML/GML XML/GML codes in operational environment by 2018.					
Scope	a) The SIGMET part of the project will comprise all Meteorological Watch Offices (MWOs) listed in Table MET II-1 of ANP Volume II;	the AFI				
Беоре	b) QMS part of the project is related to all AFI aerodromes listed in the AFI ANP Table MET II-2 for the establishment and apa duly organized quality system of MET service;					
	c) The list of States having long lasting MET deficiencies, is listed in the last report of the APIRG meeting; and					
	d) The Transition Plan part of the project is related to all AFI aerodromes listed in the AFI ANP Table MET II-2.					

AFI Region	Project Description							
Programme	Title of the Project	Start	End					
	a) SIGMET metric: Number of MWOs listed in AFI ANP Table MET II-1, with SIGMET procedures implemented in Dece	ember 2017						
Metrics	b) QMS metrics: Number of MET Provider States listed in AFI ANP Table MET II-2, with QMS/MET certified or recertified in December 2018							
	c) Deficiency metrics: Number of identified States in APIRG/20 report, with MET deficiencies removed in December 2018							
	d) d) Transition Plan metrics: Number of AFI States implemented OPMET data in digital format (XML/GML) in December 2018							
Strategy	All tasks will be carried out by MET experts nominated by AFI States participating in the project, led by the Project-Team Coordinator and under the supervision of the B0-AMET PFF Project Facilitators (ROs/MET, Dakar and Nairobi) through the "GoTo Meeting" tool. Upon completion of the tasks, the results will be sent to the B0-AMET PFF Project Facilitators as a final document for submission to, and if necessary approval by the APIRG Projects Coordination Committee (APCC). For the purpose of collaborative decision-making, meetings will be held with the areas involved.							
Rationale	a) SIGMET: The lack of implementation by about 21% of AFI MWO Provider States, of information concerning phenomena which may affect the safety of aircraft operations (SIGMET), in the region and their repercussions on the navigation services call for tools to allow the personnel involved in the different air navigation areas to receive, disseminate quality information related to such events.	he provision	n of air					
	b) QMS: More accurate and timely meteorological information will optimize flight path planning and prediction, thus imprand efficiency; improved aerodrome reports and forecasts will optimise the use of available aerodrome capacity; a information will minimize the environmental impact of air traffic. Performance management will be an important part information quality assurance.	and meteor	ological					
c) Deficiencies: The decrease or removal of MET deficiencies listed in the APIRG meetings, will increase air efficiency in the region.								
	d) d) Digital OPMET: progressive implementation of digital OPMET (SIGMET, METAR, SPECI and TAF) in the AFI AFI States to be prepared for digital OPMET exchange in the future SWIM environment.	region, will	l enable					

AFI Region	Project Description					
Programme	Title of the Project					
	All APIRG specifically projects related to:					
Related projects	✓ Implementation of Improved Airport Operations through Airport-CDM (B0-ACDM)					
	✓ Implementation of Optimization of Approach Procedures including Vertical Guidance (B0-APTA)					
	✓ Implementation of Improved Operations through Enhanced En-Route Trajectories (B0-FRTO)					
	✓ Implementation of Improved Flexibility and Efficiency in Descent Profiles (CDO) (B0-CDO)					
	✓ Implementation of Improved Flexibility and Efficiency in Departure Profiles —Continuous Climb Operations (CCO)	(B0-CCO)	)			

Project Deliverable		Relationship with the performance - based regional plan (PFF)	Responsible Party	Status of Implementation	Date of Deliver	Comments
	updated AFI regional SIGMET Guide distributed and placed on ICAO website	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinators	New edition drafted	Before October 2015 (after APIRG/20)	Guide updated based on the regional SIGMET Guide Template
SIGMET	Current level of implementation of SIGMET assessed through annual SIGMET trials	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader	Yearly SIGMET Tests	December 2015	Results of SIGMET Tests in November 2015 will update the level of implementation under the new edition of the Guide
	An updated list of States not compliant with SIGMET format, established	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader		December 2015	
	Details guidance to States not issuing SIGMET, distributed	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader		December 2016	

	States in the production of MILI	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader		June 2016	
QMS	An updated list of States not	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader		December 2015	
	I that have not implemented (IMS)	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator		December 2017	
	report distributed		✓ AFI B0-AMET-1 Project Team Leader			
	Training on cost recovery mechanism for MET performed; training workshop report encouraging Sates to institute cost recovery mechanism, distributed.	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader		December 2015	
	Report on QMS/MET Audit trials,	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader		December 2015	
	the MET tight accorded and contirmed	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader	MET deficiencies established by APIRG/19	December 2015	Updated MET deficiencies to be established by
Deficiencies	An updated list of MET deficiencies for remaining AFI States not listed in APIRG/19 report, established	AFI B0-AMET PFF-1	Feam Leader  ✓ AFI B0-AMET PFF  Project Coordinator  ✓ AFI B0-AMET-1 Project  Team Leader		December 2016	APIRG/20

	An updated list of deficiencies including States not compliant with SIGMET format, established	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader	December 2015	
	Warnings deficiencies, distributed	AFI B0-AMET PFF-2	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader	December 2018	
	Reports on Specific training workshops in French and English to assist States concerned to address deficiencies related to the implementation of the AMBEX scheme and for the provision of further advice and awareness, issued	S AFI B0-AMET PFF-2	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-2 Project Team Leader	December 2016 and June 2018	
Deficiencies	An action plan to assist concerned	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader	December 2017	
Digital OPMET	Dakar and Pretoria RODBs Provider States developed capability of handling digital OPMET (SIGMET, METAR, SPECI, TAF) and provided technical assistance as required to other AFI States	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader	December 2016	In accordance with the AFI digital OPMET transition plan
OT WIET	Dakar and Pretoria RODBs	AFI B0-AMET PFF-1	✓ AFI B0-AMET PFF Project Coordinator ✓ AFI B0-AMET-1 Project Team Leader	December 2017	In accordance with the AFI digital OPMET transition plan

AFI States implemented digital OPMET in BCC and NOCs in accordance with Amendment 77 to ICAO Annex 3	AFI B0-AMET PFF-1	<ul> <li>✓ AFI B0-AMET PFF         Project Coordinator     </li> <li>✓ AFI B0-AMET-1 Project         Team Leader     </li> </ul>		December 2018	In accordance with the AFI digital OPMET transition plan
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<sup>✓</sup> Funds to conduct the meetings, missions and to translate reports, regional guides and manuals. Likewise, participants must be given facilities to participate in Go To Meetings.

<sup>✓</sup> Funds to conduct audit trials. States could cover the cost of trials by their lead auditors, since the experience obtained will contribute to improve the system. Likewise, participants must be given facilities to participate in GoTo Meetings.