



Fourth Meeting of the Pacific Meteorological Council

14-18 August 2017
Honiara
Solomon Islands

Agenda Item No. 12.2: Aviation Weather Services: Compliance with International Civil Aviation Organization (ICAO) requirements including Annex 3, Quality Management System (QMS): International Organization for Standardization (ISO) 9001: 2015, Civil Aviation Rule (CAR) Document / Part 174), competency assessment and capacity development of Aeronautical Meteorological Officers (AMOs) and Aeronautical Meteorological Forecasters (AMFs).

Agenda Item No. 12.2.4: Competency assessment and capacity development of AMOs and AMFs.

Purpose:

This discussion paper provides information on Aviation Meteorological Services (AMS), a *competency and qualification requirement* that has been developed by the WMO Commission for Aeronautical Meteorology (CAeM) in response to the requirements listed in paragraph 2.1.5 of the International Civil Aviation Organization (ICAO) Annex 3 to the Convention on International Civil Aviation, Meteorological Service for International Air Navigation.

Background:

These competency standards and qualification requirements have been developed by the WMO CAeM in response to the requirement listed in ICAO Annex 3, paragraph 2.1.5 which states that *"Each contracting State shall ensure that the designated meteorological authority complies with the requirements of the WMO in respect of qualifications and training of meteorological personnel providing service for international air navigation"*.

The competency standards and qualification requirements for Aeronautical Meteorological Personnel (AMP) including Aeronautical Meteorological Observers (AMOs) and Aeronautical Meteorological Forecasters (AMFs) were approved by the 16th World Meteorological Congress in May 2011. These were included in the WMO Technical Regulations No.49, Vol.1 together with the required learning outcomes of the Basic Instruction Packages for Meteorologist (BIP-M) and Meteorological Technician (BIP-MT).

All providers of aeronautical meteorological services to international air navigation shall be able to demonstrate that their AMP satisfies the Competency Standards by 1 December 2013; and the qualifications of their AMFs satisfy the BIP-M requirements by 1 December 2016.

A set of "Implementation Guidance of AMP Competency Standards" (previously known as "secondary-level" competence (SLC) guidelines) and a Competency Assessment Toolkit (CAT) are developed by the WMO CAeM to assist its Members in developing their own tailored competency assessment tools for demonstrating their AMPs to meet the competence standards and requirements.

Fiji Meteorological Service (FMS) need to comply with the statutory and regulatory requirements and therefore it has become a mandatory for all AMP at FMS to complete and satisfactorily pass the Competency Assessment. FMS procedure outlining the process for assessing competency for AMP is based on 'know-tell-do' criteria and is designed to best suit FMS's staff (refer Annex 2).

The International Organization of Standardization (ISO) 9001: 2015 standards especially clause 7.2 on competence states that the organization shall:

- a) determine the necessary competence of person(s) doing work under its control that affects the performance and effectiveness of the quality management system;
- b) ensure that these persons are competent on the basis of appropriate education, training, or experience;
- c) where applicable, take actions to acquire the necessary competence, and evaluate the effectiveness of the actions taken; and
- d) retain appropriate documented information as evidence of competence.

Update:

A recent survey conducted by the Pacific Islands Aviation Weather Services (PIAWS) Panel on the implementation of competency assessment of the Pacific Island Countries and Territories' NMHSs personnel providing services for international air navigation, shows that 10 of the 11 respondents have either completed or started the competency assessment of their AMP (refer to Annex 1).

FMS has developed procedure outlining the process for assessing competency of AMP based on 'know-tell-do' criteria and is designed to best suit FMS's staff (refer to Annex 2).

Recommendations:

The Meeting is invited to:

- **Note**
 1. the result of a recent survey conducted by the PIAWS Panel on the implementation of competency assessment of the Pacific Island Countries and Territories' NMHSs personnel providing services to international air navigation.
 2. NMHSs personnel providing services for international air navigation are to comply with the WMO qualifications and training requirements of AMP, to meet the ICAO Annex 3, paragraph 2.1.5.
 3. NMHSs are to implement competency assessment methods to meet the ISO 9001: 2015 Standards especially clause 7 and sub clause 7.2.
 4. a set of "Implementation Guidance of AMP Competency Standards" and Competency Assessment Toolkit (CAT) are developed by the WMO CAeM to assist in developing tailored competency assessment tools.
 5. FMS procedure outlining the process for assessing competency for of personnel providing services to international air navigation, as presented in Annex 2.
- **Request**
 6. NMHSs to ensure that personnel providing services for international air navigation meet the AMP qualification requirements included in the WMO Technical Regulations No.49, Vol.1 together with the required learning outcomes of the BIP-M and BIP-MT.



7. NMHSs to ensure that personal providing services for international air navigation meet the AMP standard requirements.
8. SPREP to assist NMHSs' personnel providing services for international air navigation to meet the AMP qualifications.
9. SPREP to assist NMHSs' personnel providing services for international air navigation to meet the AMP standard requirements.
10. NMHSs to consider implementing competency standards and requirement as per the ISO 9001: 2015 standards especially clause 7.2 on competence, to all services.

Attachments:

1. Annex 1: Status of Implementing Competency Assessment in the Pacific Island Countries and Territories' NMHSs.
2. Annex 2: FMS Competency Assessment Procedures.

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