



SEVENTH MEETING OF THE PACIFIC METEOROLOGICAL COUNCIL (PMC-7)

## Agenda Item 9.4

# Certification on Civil Aviation rule Part 174

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# Purpose of the Paper

- To inform the meeting about the gaps within meteorological service organizations that are contributing to delays in their certification under Civil Aviation Rule Part 174
- To seek the meeting's guidance and decisions to assist Pacific Island States in addressing these deficiencies.
- To highlight the necessary training staff must undergo to effectively perform the duties of a Meteorologist, Meteorological Technician (observer), observing infrastructure technicians, quality manager and safety management systems officer.



# Background

- Part 174 prescribes:
  - a. Rules governing the certification and operation of organisations providing meteorological service for aviation; and
  - a. Requirements governing the provision of basic weather reports for aviation
- States that have adopted the NZ CAA rules are required to be certificated under Part 174, if they are providing service to aviation.



# Background

- In addition, as ICAO-contracting States, meteorological service organizations are required to comply with the SARP set by the International Civil Aviation Organization (ICAO) and the World Meteorological Organization (WMO).
- PASO is an international organisation providing regional regulatory aviation safety oversight service for the 10 Pacific States who are signatories to the [Pacific Islands Civil Aviation Safety and Security Treaty \(PICASST\)](#)



## Recurring themes in aviation meteorological service provision

1. Inadequate understanding of the Civil Aviation Rule part 174 requirements
2. Developing manuals on Part 174 Exposition, QMS and SMS
3. Maintaining an effective quality assurance system, which includes,
  - a. Taking corrective actions
  - b. Performance analysis and evaluation
  - c. Product verifications
  - d. Conducting Internal Audits
  - e. Conducting management review meeting





## Recurring themes in aviation meteorological service provision

- Trainings on basic instruction package for Meteorologist and Meteorological technicians (observers)
- Trainings on quality and safety management systems
- Conducting competency-based assessments.
- Irregular station inspections and un-availability of automatic weather observing systems spares
- Limited trainings for observing infrastructure technicians to maintain instruments and observing systems at satisfactory level



## Improvement in provision of aviation meteorological services

- PASO invites the PMC to consider the provision of guidance and support to states in meeting the requirements of civil aviation rules.
- PMC is invited to consider the need for supporting states in meeting the minimum qualifications required for personnels providing aviation weather service.
- Providing training for technicians to maintain observing network infrastructure.
- Support in the form of training programs on QMS and SMS.
- By implementing the training and support suggested above, States will be able to significantly enhance on the provision of aviation weather services in the region.



# Recommendations:

- **Note** the recurring deficiencies in the meteorological service organisations which are common challenges for all organisations
- **Recommend** that the issues raised via audits and other reporting's shall be addressed as soon as practicable as it could pose risk to aviation safety, with appropriate corrective action plans to be developed by States
- **Endorse** the establishment of a PIAWS Panel Task Team to develop a roadmap for the provision of best practice aviation services in the Pacific region, including raising awareness on the requirements of Civil Aviation Rule Part 174.





# Recommendations:

- Institutions and/or development partners to develop and make available training to all Pacific Island meteorological services on QMS, SMS, risk management, root cause analysis, internal auditor trainings, quality tools and competency-based assessments

This should include an element of ‘train the trainer’, to ensure that the knowledge and skills can continue to be shared within each organisation.