International Civil Aviation Organization

WORKING PAPER

**TWENTIETH MEETING OF THE METEOROLOGY SUB-GROUP
(MET SG/20) OF THE ASIA/PACIFIC AIR NAVIGATION PLANNING
AND IMPLEMENTATION REGIONAL GROUP (APANPIRG)**

Bangkok, Thailand, 6 – 9 June 2016

Agenda Item 6:   **Research, development and implementation issues in the MET field**

6.5 Governance and training (incl. quality management, cost recovery, qualification and competencies of meteorological personnel)

THE ROLE OF MET SERVICE PROVIDERS IN ATS SAFETY MANAGEMENT

(Presented by MALAYSIA)

SUMMARY

This paper presents the Malaysia ANS regulator's requirements for the role of MET service provider in ATS safety management system including the training needs for related MET technical personnel.

1.   INTRODUCTION

1.1   ICAO Annex 19 requires states to implement State Safety Programme (SSP) whereby six categories of service providers are required to implement safety management system (SMS). The Air Traffic Service (ATS) provider is one category of service providers that is required to implement SMS in accordance with Annex 11.

1.2   The scope of the ATS provider's SMS should include Aeronautical Information Services (AIS), Communications Navigation and Surveillance (CNS), Aeronautical Meteorology (MET) and Search and Rescue (SAR) services, when the provisions of those services are the under authority of an ATS provider. When the provision of AIS, CNS, MET and/or SAR services are wholly or partially provided by an entity other than an ATS provider, the related services that come under the authority of the ATS provider, or those aspects of the services with direct operational implications, are included in the scope of the ATS provider's SMS.

1.3   MET services in Malaysia are provided by an entity other that the ATS provider and the scope of the ATS SMS shall include those aspects of MET services with direct operational implications that affect safe aircraft operations.

2. DISCUSSION

Regulatory Requirements for ATS and MET

2.1   In accordance with the Malaysia state regulatory directives for ATS providers, the ATS provider's SMS scope is required to include those aspects of MET services with direct ATS operational implications.

2.2   Although Malaysia does not require MET services to implement its own SMS, the MET service providers are required to be responsible for certain activities in ATS SMS activities. These activities include but not limited to:

(a) responding to queries and providing reports including safety related data and records for the ATS providers and regulators;

(b) provide data for related lower consequence safety performance indicators for the monitoring and measurement of the availability of MET information; and

(c) participate in ATS SMS safety assessments and safety reviews, when required.

Training Needs for MET Service Providers

2.3   Malaysia has identified the need for safety management training for relevant MET technical personnel. The scope of SMS training for MET should include generic SSP/SMS framework elements and guidance material, state's requirements on safety management, the organization's safety policy, safety roles and responsibilities, SMS principles related to safety risk management, safety assurance and safety performance, as well as the use and benefits of the organization's safety reporting system(s).

Moreover, the training scope should also include safety responsibilities in accordance with their involvement in the ATS SMS programme. The propose training syllabus is documented in *Attachment XX*.

Communications and Disseminations of Safety Information

2.4   Finally, in view of the required participation of MET in ATS SMS, ATS provider should include MET service provider as a recipient in their communication of safety-related issues.

3. CONCLUSION

3.1   Currently there is no requirement or guidance in ICAO Annex 3 for the role of MET service providers in ATS safety management. Different levels of implementation by different states indicate the need for guidance related to this issue for implementation in APAC region.

4. ACTION BY THE MEETING

4.1   The meeting is invited to:

a) Review the level of implementation in the role of MET service providers in ATS safety management in Malaysia;

b) Review the propose training objective and syllabus for MET technical personnel in ATS safety management; and

c) Discuss the need for guidance to implement this issue for APAC states.

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Attachment XX

Training Syllabus

Recipient	Training objective	Training programme content
MET technical personnel	1. To familiarize trainees with ATS providers' safety policies, objectives and SSP/SMS fundamentals 2. To familiarize trainees with safety concepts, hazard identification and risk management relevant to their respective roles, functions and responsibilities 3. To provide an overview of safety responsibilities, including safety procedures, hazards reporting and safety performance	• SSP/SMS components and elements • Requirements for safety management • Hazards, consequences and risks • ATS providers' safety policies and objectives • ATS providers' safety reporting system(s) • Impact of weather on aviation • Hazard identification and risk management processes, ATS safety assessments including roles and responsibilities • ATS Safety review • Overview on safety data collection and analysis including safety performance indicators