



International Civil Aviation Organization

**THIRD MEETING OF ASIA/PAC OPMET MANAGEMENT TASK FORCE
OF CNS/MET SUB-GROUP OF APANPIRG (OPMET/M TF/3)**

Bangkok, Thailand, 2-4 March 2005

Agenda Item 4a: OPMET Exchange Monitoring

DEVELOPMENT OF OPMET MONITORING AT SINGAPORE RODB

(Presented by Singapore)

SUMMARY

This paper reports the progress of implementation of OPMET monitoring at Singapore, RODB.

1. INTRODUCTION

1.1 In the OPMET/E TF/1 Meeting, it was proposed that OPMET monitoring procedures similar to those used in the EUR Region be developed in the RODB centers. Singapore has since been working to develop a framework to monitor the availability and regularity of OPMET data. The approach adopted by Singapore is both to upgrade the existing front-end message management/data visualization system to do some of the monitoring tasks, and to develop in-house further application to achieve the OPMET monitoring goals.

2. IMPLEMENTATION

2.1 The front-end message management/data visualization system has been upgraded in late Sep 2004 to include function to extract archived reports based on various criteria such as WMO abbreviated headings, receipt times etc. The upgraded system allows for straightforward computation of availability indices for SA, FC and FT bulletins. However, further analysis of data is necessary to calculate the regularity index.

2.2 Currently, Singapore plans to carry out a monitoring exercise, computing both the availability and regularity indices for a month in 2005 using definitions taken from the Information Paper of SADIS Operations Group Eighth Meeting - SADISOPSG/8-IP5:

$$I_{availability} = \frac{\text{Number of aerodromes for which data type (TT) is received}}{\text{Number of aerodromes for which data type (TT) is required}}$$

$$I_{regularity} = \frac{\text{Number of aerodromes for which data type (TT) is received above threshold}}{\text{Number of aerodromes for which data type (TT) is required}}$$

$$\text{Threshold} = \mu - (k \times \sigma)$$

Where μ is the mean daily report count for each aerodrome

σ is the Standard Deviation of the daily report count for each aerodrome

k is a constant integer

The result of the exercise will be presented in the CNS/MET SG/9 of APANPIRG meeting in July 2005.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to note and comment the monitoring framework

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