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THIRTEENTH AIR NAVIGATION CONFERENCE

Montréal, Canada, 9 to 19 October 2018

COMMITTEE A

Agenda Item 3: Enhancing the global air navigation system

3.5: Other ATM issues

OVERVIEW ON ATS WEB APPLICATIONS

(Presented by Saudi Arabia)

EXECUTIVE SUMMARY

This paper provides an overview on use of air traffic services (ATS) web applications to support ATS operation in terms of reporting of technical and operational irregularities, tracking and analysis of data for rostering and management of the air traffic control (ATC) systems.

1. INTRODUCTION

1.1 The day-to-day activities of air traffic services require reporting of events and outages that may impact the provision of services and monitoring of air traffic controller's currency to maintain the validity of their ATC licenses and ratings. This includes ensuring that controllers assigned to ATC operational positions/sectors have valid license and required daily briefings.

1.2 Over the years this had been managed using manual paper-based processes and procedures whereby briefing books or clipboards, and even semi-automated (computers) were used to have ATC staff read and initial the operational material, or to log the ATC operational and technical daily events. The access to this information was ineffective and the risk of missing important and critical information was high.

1.3 The solution to this challenge was met through the development of ATS web applications by Jeddah Area Control Centre (ACC). The ATS web applications are assisting air traffic service units in Jeddah ACC to better manage, report, track and analyse the day-to-day requirements of ATC operations.

2. DISCUSSION

2.1 The ATS web applications contains two parts; the ATC log book and the ATS tracking and data analysis system (ATS TDAS).

2.2 The ATC log book facilitates, the logging, reporting, collection and distribution of the log book information. The Jeddah log book includes a tab for ACC/APP (radar services) and tower operations. The daily operations log has pull down menus to log different types of events such as outages and safety-related information. Depending on the type of event logged an additional pull down menu will appear to capture the specific data and forward to the appropriate office for follow-up action. For example, logging an ATC safety occurrence event, will bring down a menu to enter the required information and when completed the system will automatically forward to the appropriate safety office.

2.3 The ATC log book also has the ability to filter the information by types of events, shift/watch, or date that can be used for data analysis. This includes automatic reports, charts and statistics on events and/or outages for on-screen visualisation or printing.

2.4 ATS TDAS is a web-based application that provides air traffic management and staff with an electronic means to capture air traffic employee information, ATC licensing status (proficiency, medical, English language), manage resources, and briefing/training data. A centralized database hosted at the Jeddah ACC captures and manages all the data.

2.5 Staff can also track information about themselves such as their license or medical, language level, vacation or any identification card status, and notifications of required daily briefings.

2.6 Managers, supervisor and staff can access the ATS web applications by computer and via mobile web application. Different levels and access are managed from view only to making entries and creating actions depending on authority and supervision levels. Example, supervisors can access information on their team members and employees can only access their own information.

2.7 ATC log book and ATS TDAS also significantly reduces administrative costs and resource requirements by automating repetitive tasks and eliminates redundant processes.

2.8 The ATS web applications, ATC log book and ATS TDAS is planned to be developed and expanded for use by Saudi Air Navigation Services (SANS) at all ATC centres and air traffic service units in Saudi Arabia by the end of 2019.

3. **CONCLUSION**

3.1 The ATS web applications of ATC log book and ATS TDAS can be viewed as a support management tool that contributes to the safe and efficient operation of ATS by better management of its requirements and resources.

3.2 The Conference is invited to take note of information provided on the use of ATS web applications to support ATS operations by SANS.

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