

Twentieth Meeting of the Cross Polar Trans East Air Traffic Management Providers' Work Group (CPWG/20)

(Anchorage, Alaska 26-29 October 2015)

Agenda Item x:

Global Flight Tracking

(Presented by Federal Aviation Administration)

SUMMARY

This paper provides an update on the Federal Aviation Administration (FAA) implementation of a 14 minute Automatic Dependent Surveillance-Contract (ADS-C) reporting rate for all RNP 10 aircraft in the Oakland and Anchorage Oceanic Flight Information Regions (FIR).

1 Introduction

1.1. At the Twenty-Ninth Meeting of the Informal Pacific ATS Coordinating Group (ISPACG/29), 4-6 March 2015, Santiago, Chile, Airservices Australia presented information on a Global Tracking Trial to determine the effectiveness of increasing ADS-C periodic reporting to monitor flights through non-surveillance airspace.

1.2. The Global Tracking Trial was in response to the ICAO recommendation to adopt a 15 minute tracking standard in remote and oceanic areas. The trial increased the ADS-C reporting rate to 14 minutes for RNP 10 aircraft. The initial results of the trial show the higher message rate is not causing any adverse effect on communication systems. Airservices Australia implemented the change effective from the 30 April 2015 AIRAC date.

1.3. Airservices Australia was working with the Malaysian and Indonesian Air Navigation Service Providers to support their implementation of increased reporting. The FAA was welcomed to participate in the initiative and to consider suitable dates in May or June 2015 for implementation of the increased reporting rate.

2 Discussion

2.1. On 25 June 2015, the FAA implemented a 14 minute ADS-C reporting rate for RNP 10 aircraft in the Oakland and Anchorage Oceanic FIRs in support of the ICAO-recommended 15 minute tracking standard. The increased message rate has not impacted the communication systems.

2.2. Inmarsat analysed the channel loading, ADS latency delays, and ADS volumes before and after the June 25th implementation date and saw no changes as a result of the 14 minute reporting in the Pacific Ocean Region (POR).

2.2.1. From 12 June 2015 to 24 June 2015 the total number of ADS messages in the POR was 317,730.

2.2.2. From 25 June 2015 to 07 July 2015 the total number of ADS messages in the POR was 317,437.

3 Recommendation

3.1. The Meeting is invited to note the information provided in this paper.