



SUBJ: Navigation: Flight Management Computing Software

SAIB: CE-19-14

Date: July 2, 2019

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin is to inform owners and operators of an issue that may cause certain versions of the Rockwell Collins Pro Line Fusion Flight Management Systems (FMS) to fly a wrong turn direction when deleting a waypoint.

Pro Line Fusion

Equipment Type	Part Number
FMSA-6010	810-0163-2B0004
FMSA-6010	810-0163-3B0001
FMSA-6010	810-0163-1F0001

At this time, the airworthiness concern is not an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

Background

If the crew uses "DELETE" to remove a waypoint in a departure, Standard Terminal Arrival Routes (STAR), or approach, it is possible for the FMS to make the longest turn (more 180° of turn) onto the following leg. This can occur if, for the waypoint being deleted, both of the following are true:

- The following leg is Track-to-Fix (TF), and the database codes a required turn direction for turning onto the TF, and
- After the deletion, the shortest turn is a different direction than when turning from the original, deleted waypoint.

This can occur for "DELETE" selections on any format, such as ROUTE or graphical flight planning on the map.

The issue can occur for Left turns and Right Turns coded in Departures, STARs and approaches, including missed approaches.

Recommendations

The FAA recommends to NOT use DELETE selection or entry to remove a waypoint. Use an alternative method to delete waypoints. Refer to Rockwell Collins Operators Bulletin OPSB 0194-19 for further information.

The FAA is requesting owners and operators to report any cases related to this issue directly to the FAA contact provided below.

For Further Information Contact

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For Related Service Information Contact

Collins Aerospace, 400 Collins Road NE, Cedar Rapids, IA 52498 ; phone: (319) 295-5000.