



Federal Aviation Administration

Memorandum

Date: NOV - 2 2016

To: Jim Linney, Director, Air Traffic Systems, AJM-2

From: David E. Spencer, Director, Operations Support, AJW-1 ^{for}

Subject: **INFORMATION:** Certification Analysis of the Time Base Flow Management System

FAA will require certification for the Time Based Flow Management (TBFM) System with Work Package 3 (WP3) functionality. This memo summarizes our certification requirements analysis, describes the TBFM operational characteristics, provides the certification criteria used for this analysis, and identifies a point of contact to address questions.

Requirements Analysis

We analyzed the intended scope, capability, and application of the TBFM WP3 functionality, and we evaluated its operational characteristics. We compared these characteristics to certification criteria contained in Order 6000.15G, General Maintenance Handbook for National Airspace System (NAS) Facilities.

Operational Characteristics

TBFM WP3 provides the capability to manage aircraft route trajectories that improve the accuracy of the corresponding Estimated Time of Arrival (ETA) to points on or beyond the Area Navigation/Required Navigation Performance (RNAV/RNP) procedure. TBFM also provides extended metering in the cruise phase of flight, sequences and schedules active flights with other en route arrivals, and schedules departures.

Certification Criteria

FAA requires certification for systems that meet any of the criteria published in Order 6000.15G, Paragraph 5-3. TBFM WP3 provides moment by moment positional information to air traffic control operations and decision support information that directly affects aircraft routing.

Point of Contact

Mr. Lowen Overby will represent our organization for any questions on the certification analysis of TBFM. His telephone number is (202) 267-4088.

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