



U.S. Department
of Transportation
**Federal Aviation
Administration**

Aviation Safety

Compliance and Airworthiness Division
Denver ACO Branch
26805 E. 68th Ave, Room 214
Denver, CO 80249

May 21, 2021

FAA Letter Number: 7D0-21-4706

Boeing Global Services
Digital Solutions and Analytics
Attn: Michael Rowley, Manager, Quality Services
55 Inverness Drive East
Englewood, CO 80112-5498

Subject: Third Generation MultiMode Receiver (3GMMR) Type II LOA

Dear Mr. Rowley:

TYPE II FAA LETTER OF ACCEPTANCE
Third Generation Multimode Receiver (3GMMR) Navigation Database
LOA0011DE

The Federal Aviation Administration (FAA) has verified that Boeing Global Services, Digital Solutions and Analytics, hereafter referred to as “BGS DS&A” satisfies the objectives of AC 20-153B, *Acceptance of Aeronautical Data Processes and Associated Databases*, and RTCA/DO-200B, *Standards for Processing Aeronautical Data*, based on alternative means of compliance using RTCA/DO-200A, regarding processing of navigation data for a third generation multimode receiver (3GMMR). This Type II Letter of Acceptance (LOA) authorizes BGS DS&A to supply navigation data directly to an operator (e.g. end-user, airlines) for loading into the installed equipment.

For this Type II LOA, compatibility has been established with the hardware identified in BGS DS&A’s 3GMMR_Approved_Equip_List, Version 1.0, dated August 13, 2020, or later FAA approved revision. This data may include tailored data not originating from a State authority. The end user must satisfy itself on the suitability of tailored data for intended use.

The following terms and conditions are applicable to this LOA, are not transferable, and are effective until surrendered or withdrawn by the holder, or terminated by the FAA:

1. BGS DS&A receives data, such as Aeronautical Information Publications, from approved State sources. Data quality requirements for the receipt of data from other sources and for the delivery of data to their customers are defined in D6-86672 Jeppesen LPV Database Requirements, Version C, dated November 4, 2020 (or later FAA approved revision).

2. BGS DS&A procedures for processing data are defined in departmental procedures that are compliant with Boeing DS&A Quality Manual, Version 1.2, dated August 10, 2020, or later FAA-approved version.
3. Reporting of Failures, Malfunctions, and Defects. BGS DS&A must report data failures, malfunctions, and defects that may have a safety effect on the operational use of this data to the Denver ACO Branch Manager at (303) 342-1081.
4. Maintain a Quality Management System (QMS). BGS DS&A must maintain a QMS as described in RTCA/DO-200B, section 2.5. Changes to the QMS that may affect the data quality objectives must be reported to the Phoenix MIDO Section at (480) 284-8714 or by e-mail at 9-AVS-AIR874@faa.gov for acceptance prior to implementation.
5. Design Changes:
 - a. BGS DS&A must submit minor changes to the data quality requirements, data processing standards, or the QMS to the Denver ACO Branch in accordance with procedures described within BGS DS&A Corporate Quality Manual, Document Control Procedures and/or Document Control Work Instructions. All other changes are considered major and must be substantiated and accepted prior to implementation in the same manner as the original LOA.
 - b. Upon receipt of notification by the Denver ACO Branch that an unsafe condition exists in a database product supplied under this LOA, BGS DS&A shall develop a corrective action and submit it to the Denver ACO Branch for acceptance. BGS DS&A shall expedite distribution of the approved corrective action to customers and users.
6. BGS DS&A must perform periodic internal audits of both AC 20-153B and RTCA/DO-200B as described in RTCA/DO-200B, section 3, with a maximum time between audits (whether total or incremental) of not more than one year. Audits may be total or conducted incrementally, as long as you audit all the objectives at least annually. Any major non-conformities as described in RTCA/DO-200B, section 3.4 must be reported to the Denver ACO Branch. Additionally, the FAA may perform periodic audits in accordance with procedures described within Boeing DS&A Quality Manual, Version 1.2, dated August 10, 2020, or later FAA-approved version.
7. BGS DS&A must provide a release statement with each database distribution to broadcast LOA status, state of compliance, and information on known deviations and modifications.
8. BGS DS&A must advise their customers of the status of their LOA as well as the status of LOAs (or foreign acceptance, including designation of the foreign authority that acknowledges the foreign source's compliance to RTCA/DO-200B and the

means of approval or acceptance) for all previous chain participants (up to, but not including, a State's Aeronautical Information Publication). The method must be timely to ensure that customers can react to changes in the status of their LOA.

If further information concerning this project is needed, please contact your project engineer, Ms. Ronnea Derby, at (303) 342-1093 or by email at Ronnea.L.Derby@faa.gov.

Sincerely,

Susan McCormick
Manager
Denver ACO Branch

Enclosure [1]: Approved Equipment List

Distribution: AIR-622