



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

Small Airplane Directorate
Wichita Aircraft Certification Office
1801 Airport Road, Room 100
Wichita, Kansas 67209

DEC 09 2016

Reply to: L115W-16-745

Mr. Robert C. Godsy
GARMIN International Inc.
1200 East 151st Street
Olathe, KS 66062

Subject: Request for new Type 2 Letter of Acceptance (LOA) for Garmin's
IFR/VFR Charts database process

Reference: Garmin Type 2 IFR/VFR Charts LOA request letter dated November 9, 2016
to Wichita ACO

Dear Mr. Godsy,

TYPE 2 FAA LETTER OF ACCEPTANCE

The FAA has determined that Garmin International (Garmin) complies with the objectives from AC 20-153B necessary to seek compliance based on AC 20-153A and RTCA/DO-200A with regards to their processing of IFR/VFR Charts data. Compatibility has been established with the avionics systems identified in the RTCA/DO-200A List of Applicable Avionics Systems, 190-01999-00, dated December 5, 2016 or later FAA approved revisions.

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are applicable to this Letter of Acceptance (LOA), are not transferable, and are effective until surrendered or withdrawn by the holder, or terminated by the FAA:

1. The Garmin International data quality requirements for the receipt of data from other sources, and for the delivery of data to their customers, are defined in Garmin documents *G2CD Data Quality Requirements* (005-00210-17) and *G2CD Data Supplier Agreement* (005-00210-21), respectively.
2. The Garmin International procedures for processing data are defined in *IFR/VFR Charts Database Release Procedures* (005-00698-15).
3. Reporting of Failures, Malfunctions and Defects. Garmin International must report to the FAA Wichita ACO any failure, malfunction, or defect of the aeronautical data produced under this LOA having a potential safety effect on operational use of the data.

4. Maintain a Quality Management System (QMS). Garmin International must maintain a quality management system as described in RTCA/DO-200A, section 2.5. Changes to the QMS that may affect the data quality objectives must be reported to the FAA Wichita ACO before implementation.
5. Design Changes.
 - a. Garmin International must submit minor changes to the data quality requirements, the data processing standards, or the quality management system to the FAA Wichita ACO in accordance with procedures described within Garmin standard operating practice *Aircraft Appliance Approval* (SOP-044). All other changes are considered major, and must be substantiated and accepted prior to implementation in the same manner as that for the original LOA.
 - b. Upon receipt of notification by the FAA Wichita ACO that an unsafe condition exists in a database product supplied under this LOA, Garmin International shall develop corrective action and submit it to the FAA Wichita ACO for approval. Garmin International shall expedite distribution of the approved corrective action to customers and users.
6. Garmin International must perform periodic internal audits as described in RTCA/DO-200A, section 3, with the maximum time between audits (whether total or incremental) of not more than one year. Any major non-conformities as described in RTCA/DO-200A, section 3.4 must be reported to the FAA Wichita ACO. Additionally, the FAA may perform periodic audits in accordance with procedures described within Garmin document *G2CD Quality Management Plan and Procedures* (005-00210-13).
7. This LOA applies to IFR/VFR Charts databases only, and does not apply to Navigation, Terrain, Obstacle, SafeTaxi, or FliteCharts databases. Specifically, the database part numbers covered by this LOA are in the RTCA/DO-200A List of Applicable Avionics Systems, 190-01999-00.
8. Garmin must also advise its customers of any data received from its data supplier(s) that is excluded from the previously listed databases due to system or software limitations.
9. Garmin International must advise their customers of the status of their LOA. The method must be timely to ensure that customers can react to changes in the status of their LOA.
10. Garmin International must provide a release statement with each database distribution to broadcast LOA status, state their compliance, and provide information on known deviations and modifications.

11. This LOA assumes that Garmin International's customers will access the Garmin web site for LOA status and data alerts.

Sincerely,

A handwritten signature in blue ink, appearing to read 'D. Hilton', written in a cursive style.

Daniel S. Hilton
Associate ACO Manager,
Electrical Systems and Avionics
Wichita Aircraft Certification Office

Cc: Wichita MIDO