



U.S. Department
of Transportation

**Federal Aviation
Administration**

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Ref: 130L-14-215

**Transport Airplane Directorate
Los Angeles Aircraft
Certification Office**

3960 Paramount Boulevard
Lakewood, California 90712-4137

Aviation Communication & Surveillance Systems

ATTN: Max Berghammer

19810 North 7th Avenue

Phoenix, AZ 85027-4400

Aviation Communication & Surveillance Systems (ACSS)
T3CAS Standard 2 configuration,
Technical Standard Order C112d W/Dev, C151c W/Dev, C166b W/Dev,
C119c W/Dev, and C166a W/Dev

Dear Mr. Berghammer:

This is in reply to your letter dated January 21, 2014 requesting approval of a Technical Standard Order (TSO) authorization for T3CAS Standard 2 configuration. We accept your statement certifying your article meets the requirements of TSO-C112d, C151c, C166b, C119c, C166a and that you meet the requirements of Title 14 Code of Federal Regulations part 21 subpart O. Effective the date of this letter, we authorize you to identify the following T3CAS Standard 2 configuration with the marking requirements defined in 14 CFR § 45.15(b) in TSO-C112d, C151c, C166b, C119c and C166a.

Table 1

Part Number	Assembly End Item Drawing	S/W Mod Level	H/W Mod Level	TSO
9005000-11203 (Major Change Configuration)	9005000-11203, Rev A	-	-	TSO-C112d (Level 3adens, Class 1) W/Dev, C151c (Class A) W/Dev, and C166b (Class A3 Transmit Only) W/Dev.
9005000-11203 (Minor Change Configuration)	9005000-11203, Rev A	-	-	TSO-C119c W/Dev, and C166a (Class A3/ Type 1 Receive Only) W/Dev.

In addition, in accordance to 14 CFR § 21.619(a), the T3CAS Part# 9005000-11203 in Table 1 constitutes as a minor change configuration for TSO-C119c and C166a to the T3CAS Part# listed in Table 2 which received TSO authorization on October 8, 2010.

Table 2

Part Number	End Item Drawing	S/W Mod Level	H/W Mod Level	TSO
9005000-10000	9005000-10000, Rev A	-	"C"	C119c With Dev (See IM) C112/166a (transmitter) With Dev (See IM) C166a (Receiver) With Dev (See IM) C151b

Your Quality Control Systems, as defined in your Quality Control Manual, currently on file at the Phoenix Manufacturing Inspection District Office, is considered satisfactory and complies with CFR § 21.607 for production of this article at your Phoenix, AZ 85027, facility.

As required by the TSO, the following statement must be furnished with each manufactured unit:

"The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class aircraft to determine that the aircraft installation conditions are within the TSO standards. TSO articles must have separate approval for installation in an aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements".

This letter also constitutes a deviation approval for TSO-C112d (Level 3adens, Class 1) W/Dev, C151c (Class A) W/Dev, and C166b (Class A3 Transmit Only) W/Dev.

This TSO authorization, issued under 14 CFR § 21.611, is effective until surrendered, withdrawn or otherwise terminated under the provisions of 14 CFR § 21.613. With notice, we may withdraw this TSO authorization if articles are not in compliance with the applicable TSO performance standards per 14 CFR § 21.2.

You must obtain FAA approval prior to making any changes to the location of your manufacturing facilities pursuant to 14 CFR § 21.609(b).

Without further FAA approval, we don't allow manufacturers to mark articles after they change their company's name, address, or ownership. You must notify the ACO and MIDO of name, address, or proposed ownership changes.

Per 14 CFR 21.614, a holder of a TSOA may not transfer it. If you wish to transfer it, you must request a transfer from the FAA.