



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

March 24, 2015

Transport Airplane Directorate
Los Angeles Aircraft
Certification Office

3960 Paramount Boulevard
Lakewood, California 90712-4137

In reply refer to: 130L-15-78

Aviation Communication & Surveillance Systems
ATTN: Max Berghammer
19810 North 7th Avenue
Phoenix, AZ 85027-4400

Aviation Communication & Surveillance Systems (ACSS)
T³CAS Release 2 configuration,
Technical Standard Orders: C112d (Level 3adens, Class 1) W/Dev, C117a W/Dev,
C119d W/Dev, C151c (Class A) W/Dev, C166b (Class A3) W/Dev.

Dear Mr. Berghammer,

This is in reply to your revised application letter dated March 18, 2015 requesting approval of a Technical Standard Order (TSO) authorization for the T³CAS Release 2 configuration. We accept your statement certifying your article meets the requirements of TSO-C112d, TSO-C117a, TSO-C119d, TSO-C151c, and TSO-C166b, 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 Release 2 configuration with the marking requirements defined in 14 CFR § 45.15(b) in TSO- C112d, TSO-C117a, TSO-C119d, TSO-C151c, and TSO-C166b.

Part Number	Assembly End Item Drawing	S/W Mod Level	H/W Mod Level	TSO
9005000-11801	9005000-11801 Rev D	-	—	TSO-C112d (Level 3adens, Class 1) W/Dev,
9005000-55801	9005000-55801 Rev D	-	-	
9000001-11001	9000001-11001	N/A	N/A	TSO-C117a W/Dev,
9200004-04802	9200004-04802	N/A	N/A	TSO-C119d W/Dev,
				TSO-C151c (Class A) W/Dev, TSO-C166b (Class A3) W/Dev

We consider your quality control system, as defined in your Quality Control Manual, currently on file at the Phoenix Manufacturing Inspection District Office (MIDO), satisfactory for production of these articles 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 with TSO standards. TSO articles must have separate approval for the 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), TSO-C117a, TSO-C119d TSO-C151c (Class A), TSO-C166b (Class A3), as defined in ACSS document “ACSS T³CAS Release 2 System TSO Deviations”, ACSS document number 8009900-003 Rev D.

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.

Send to this office any design change(s) for this TSO article as outlines in 14 CFR § 21.619(a). You should notify us of minor changes within six months.

Also, as recipient of this authorization, we require you to report any failure, malfunction, or defect relating to articles produced under this authorization in accordance with the provisions of 14 CFR § 21.3. The report should be communicated initially by telephone to the Supervisor, Technical and Administrative Support Staff, ANM-103L, (562) 627-5300, within 24 hours after it has been determined the failure has occurred and followed up with written notice. Federal Aviation Administration Form 8010-4 (Malfunction or Defect Report) or other appropriate format is acceptable in transmitting the required details.

Please note that technical data the FAA retains may be subject to Freedom of Information Act (FOIA) requests. This office will notify you of any request(s) pertaining to your data and give you the opportunity to protect data from public disclosure.

If you have any questions regarding this authorization, please contact Mr. Jerry Ramos, Project Manager, by telephone at (562) 627-5296, by email at Jerry.Ramos@faa.gov, or by fax at (562) 627-5210.

Sincerely,



Haifa Haj-Eid
Supervisor, Technical and Administrative
Support Staff