



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

**JUN 30 2010**

In reply refer to: 130L-10-104

Aviation Communication & Surveillance Systems  
ATTN: Philip Heinicke  
19810 North 7<sup>th</sup> Avenue  
Phoenix, AZ 85027-4400

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

3960 Paramount Boulevard  
Lakewood, California 90712-4137

Dear Mr. Heinicke:

Aviation Communication & Surveillance Systems (ACSS),  
T3CAS (TCAS II) Computer Unit P/N 9005000-10000;  
Technical Standard Order for C119c (Version 7.1), C112, C166a, and C151b

This is in reply to your letter dated June 2, 2010 requesting Technical Standard Order (TSO) authorization for C119c (Version 7.1), C112, C166a and C151b in accordance with the procedural requirements of 14 Code of Federal Regulations (14 CFR) Part 21, Subpart O has been reviewed. The statement of conformance certifying your article(s) have met the requirements of 14 CFR Part 21, Subpart O, and the minimum performance standards of C119c, C112, C166a and C151b (Ref. 14 CFR § 21.605 and 21.609), authorization is granted for T3CAS Computer Unit (CU), part number 9005000-10000 as indicated below:

Dash No.	TCAS Model	Software Mod Level	Hardware Mod Levels	TSO
<b>10000</b>	T3CAS	-	"C"	C119c With Dev (See IM)
<b>10000</b>	T3CAS	-	"C"	C112/166a (transmitter) With Dev (See IM)
<b>10000</b>	T3CAS	-	"C"	C166a (Receiver) With Dev (See IM)
<b>10000</b>	T3CAS	-	"C"	C151b With Dev (See IM)

Your Quality Control System, as defined in your Quality Control Manual, currently on file at the Phoenix Manufacturing Inspection District Office, is considered satisfactory for production of this article at your Phoenix, Arizona 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 of aircraft to determine that the aircraft installation conditions are within the TSO standard. 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.”

**Note:** The non TSO functions of this article have not been evaluated as part of this TSO authorization, therefore they must be evaluated and tested during the installation certification process.

For your information, the conditions and tests required for TSO approval is minimum performance standards. The article(s) may be installed on or within a specific type or class of aircraft only if further evaluation by the user/installer documents an acceptable installation that is approved by the Administrator.

Effective this date, you are authorized to use TSO procedures for the T3CAS as listed above. You may identify the article(s) with the applicable TSO markings as required by TSO C119c, C112, 166a and C151b with deviations as applicable to each TSO.

As a recipient of this authorization, you are required to report any failure, malfunction, or defect relating to this authorization in accordance with the provisions of § 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 a written notice. FAA Form 8010-4 (Malfunction or Defect Report) or other appropriate format is acceptable in transmitting the required details.

This authorization is not transferable to another person or location and is effective until surrendered, withdrawn, or otherwise terminated by the Administrator. This authorization pertains only to manufacturing operations at the above address. This office must be notified at least 30 days in advance of any proposed facility relocation to preclude interruption while awaiting quality control approval of that facility. As required by § 21.613(b), you must also notify the Federal Aviation Administration (FAA) when you no longer manufacture a TSO approved article.

Please note that technical data retained by the FAA may be subject to Freedom of Information Act (FOIA) request. As such, this office will notify you of all such request pertaining to your data and afford you the opportunity to defend the release of the data.

If you have any questions regarding this authorization, please contact Mr. Abby Malmir, Project Manager, by telephone at (562) 627-5351, by e-mail at [abby.malmir@faa.gov](mailto:abby.malmir@faa.gov), or by fax at (562) 627-5210.

Sincerely,



Haifa Haj-Eid

Supervisor, Technical and Administrative  
Support Staff