



U.S. Department
of Transportation

**Federal Aviation
Administration**

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

3960 Paramount Boulevard
Lakewood, California 90712-4137

November 15, 2011

In reply refer to: 150L-11-578

Mr. Ash Vij
President
CO Guardian LLC
1951 E. Airport Dr.
Tucson, Arizona 85756

Subject: CO Guardian; Carbon Monoxide Detector Instruments
Technical Standard Order C48a

Dear Mr. Vij:

This is in reply to your revised letter of November 1, 2011 requesting Technical Standard Order (TSO) authorization for your Carbon Monoxide Detector Instruments. The statement of conformance to TSO-C48a and the submitted data are accepted. Effective the date of this letter, you are authorized to identify the following Carbon Monoxide Detector Instruments with the marking requirements defined in Title 14 Code of Federal Regulations (14 CFR) § 21.616(d)(e) and in TSO-C48a.

Part Number	Description
551-101-XXX	CO Detector Only
553-101-XXX (Non-TSO Functions)	CO Detector with Clock Functions
454-201-XXX (Non-TSO Functions)	CO Detector Remote Mount with Pulse Oximeter
455-101-XXX (Non-TSO Functions)	CO Detector with Pulse Oximeter

Additional Non-TSO functions contained in this article are:

Part Number	Non-TSO Function
553-101-XXX	Clock Functions, Cabin Temperature, Voltage reading, Cabin Altitude and Density Altitude
454-201-XXX	Pulse Oximeter
455-101-XXX	Pulse Oximeter and Blue Tooth

Your quality control system, as defined in your Quality Control Manual, Document Number 001, Revision IR, dated March 1, 2011, currently on file at the Phoenix Manufacturing Inspection District Office, is considered satisfactory and complies with 14 CFR § 21.607 for production of this article at your facility located at 1951 E. Airport Dr., Tucson, Arizona 85756.

The following statement must be furnished to the original owner/installer of each article or multiple articles, if furnished to one source:

“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 standards applicable to the TSO article including the integrated non-TSO function. 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.”

Any design changes to this TSO article, or the non-TSO function contained within, must be forwarded to this office as outlined in 14 CFR § 21.619 with minor change submittal intervals not to exceed six months. Notification of changes should be made prior to shipment.

Also, 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 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 a written notice. Federal Aviation Administration (FAA) Form 8010-4 (Malfunction or Defect Report) or other appropriate format is acceptable in transmitting the required details.

In accordance with 14 CFR § 21.614, 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 14 CFR § 21.616(f), you must also notify the FAA when you no longer manufacture a TSO approved article and copies of the data must be sent to the FAA.

Please note that technical data retained by the FAA may be subject to Freedom of Information Act request. As such, this office will notify you of all such requests 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 Ms. Myra Kuck, Project Manager, by telephone at (562) 627-5316, by e-mail at myra.j.kuck@faa.gov, or by facsimile at (562) 627-5210.

Sincerely,



Haifa Haj-Eid
Supervisor, Technical and
Administrative Support Staff