



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

Aircraft Certification Service
Aircraft Certification Office, ASW-140

10101 Hillwood Parkway
Fort Worth, TX 76177

August 13, 2015

Mr. Ron Gipson
Technical Services Manager
Castleberry Instruments and Avionics, LLC
13405 Immanuel Road, Bldg. 1, Suite A
Pflugerville, Texas 78660

Subject: Verification of your Technical Standard Order Authorization (TSOA)

Dear Mr. Gipson:

This letter corrects an address error on an earlier approval letter; and additionally, is in response to a request from the San Antonio Manufacturing District Office (MIDO) for verification of the Technical Standard Order Authorizations (TSOA) held by Castleberry Instruments & Avionics, LLC. Based upon the Aircraft Certification Office (ACO) and MIDO review, we find you have the authorizations listed in the table below:

Model	Part Number	MDL	Revision	Date
Directional Gyro Indicator 200 Series TSO C5c				
200-5BL	505-0001-901() Vacuum, Visual only	100-0200-001	S	10-28-10
200-11AL	505-0001-931() Vacuum, Visual only	100-0200-001	S	10-28-10
200-11CL	505-0001-932() Vacuum, Visual only	100-0200-001	S	10-28-10
200-11DL	505-0001-950() Vacuum, Visual only	100-0200-001	S	10-28-10

Model	Part Number	MDL	Revision	Date
200-11EL	505-0001-953() 14V Lighted, No HDG BUG	100-0200-001	S	10-28-10
	505-0001-956() 28V Lighted, No HDG BUG	100-0200-001	S	10-28-10
200-11ELB	505-0001-954() 14V Lighted, with HDG BUG	100-0200-001	S	10-28-10
	505-0001-957() 28V Lighted, with HDG BUG	100-0200-001	S	10-28-10
200-11EBD	505-0001-962() 14V Lighted, with HDG BUG	100-0200-001	S	10-28-10
	505-0001-963() 28V Lighted, with HDG BUG	100-0200-001	S	10-28-10
Horizon Reference Indicator 300 Series TSO C4c				
300-14L	504-0006-913() Vacuum, Lighted	100- 0300- 001	Q	10-20-10
300-14	504-0006-914() Vacuum, Non-Lighted	100- 0300- 001	Q	10-20-10

Model	Part Number	MDL	Revision	Date
300-14E	504-0006-960() 28V, Non-Lighted(0°)	100-0300-001	Q	10-20-10
	504-0006-961() 14V, Non-Lighted(8°)	100-0300-001	Q	10-20-10
	504-0006-962() 28V, Non-Lighted(0°)	100-0300-001	Q	10-20-10
	504-0006-963() 28V, Non-Lighted(8°)	100-0300-001	Q	10-20-10
300-14EL	504-0006-950() 14V, Lighted(0°)	100-0300-001	Q	10-20-10
	504-0006-951() 14V, Lighted(8°)	100-0300-001	Q	10-20-10
	504-0006-952() 28V, Lighted(0°)	100-0300-001	Q	10-20-10
	504-0006-953() 28V, Lighted(8°)	100-0300-001	Q	10-20-10
300-14ELP	504-0006-965()	100-0300-001	Q	10-20-10
	504-0006-966()	100-0300-001	Q	10-20-10
Horizon Reference Indicator 700 Series TSO C4c				

Model	Part Number	MDL	Revision	Date
700-CF	504-0001-908() Vacuum, Pickoff, With Knob	100-0700-001	K	04-06-04
	504-0001-912() Vacuum, Pickoff(0°)	100-0700-001	K	04-06-04
	504-0001-950() Vacuum, Pickoff(7½°)	100-0700-001	K	04-06-04
700-3CFB	504-0001-909() Vacuum, Pickoff, Dual Pigtail	100-0700-001	K	04-06-04
	504-0001-910() Vacuum, Pickoff, Single Pigtail	100-0700-001	K	04-06-04
700-ERP	504-0001-918() 28V Remote Attitude	100-0700-001	K	04-06-04
Horizon Gyro Flight Director 900-23 Series TSO C4c				
900-23V With Flight Director	504-0027-901() Vacuum, No Signals	100-0900-001	W	02-17-14
900-23VP With Flight Director	504-0027-902() Vacuum, With Signals & Flag	100-0900-001	W	02-17-14
900-23VPB With Flight Director	504-0027-943() (0°) Tilt	100-0900-001	W	02-17-14
	504-0027-944() (8°) Tilt	100-0900-001	W	02-17-14

Model	Part Number	MDL	Revision	Date
900-23EVPC With Flight Director	504-0027-905() 28VDC, (0°)	100-0900-001	W	02-17-14
	504-0027-906() 28VDC, (8°)	100-0900-001	W	02-17-14
	504-0027-907() 14VDC, (0°)	100-0900-001	W	02-17-14
	504-0027-908() 14VDC, (8°)	100-0900-001	W	02-17-14
900-23EVPS With Flight Director	504-0027-909() 14VDC, (0°)	100-0900-001	W	02-17-14
	504-0027-910() 14VDC, (8°)	100-0900-001	W	02-17-14
	504-0027-911() 28VDC, (0°)	100-0900-001	W	02-17-14
	504-0027-912() 28VDC, (8°)	100-0900-001	W	02-17-14
900-23EP Without Flight Director	504-0027-915() 28VDC, (0°)	100-0900-001	W	02-17-14
	504-0027-916() 28VDC, (8°)	100-0900-001	W	02-17-14

Model	Part Number	MDL	Revision	Date
900-23EPAR Without Flight Director	504-0027-917() 115VAC, (0°), Knob	100-0900-001	W	02-17-14
	504-0027-918() 115VAC, (8°), Knob	100-0900-001	W	02-17-14
	504-0027-919() 115VAC, (0°), Cover	100-0900-001	W	02-17-14
	504-0027-920() 115VAC, (8°), Cover	100-0900-001	W	02-17-14
900-23EPC Without Flight Director	504-0027-923() 28VDC, (0°)	100-0900-001	W	02-17-14
	504-0027-924() 28VDC, (8°)	100-0900-001	W	02-17-14
900-23EPHA Without Flight Director	504-0027-931() 14VDC	100-0900-001	W	02-17-14
	504-0027-932() 14VDC	100-0900-001	W	02-17-14
	504-0027-933() 28VDC	100-0900-001	W	02-17-14
	504-0027-934() 28VDC	100-0900-001	W	02-17-14

Model	Part Number	MDL	Revision	Date
900-23EPHD Without Flight Director	504-0027-939() 14VDC	100-0900-001	W	02-17-14
	504-0027-940() 14VDC	100-0900-001	W	02-17-14
	504-0027-941() 28VDC	100-0900-001	W	02-17-14
	504-0027-942() 28VDC	100-0900-001	W	02-17-14
900-23EPJ Without Flight Director	504-0027-921() 28VDC, (0°)	100-0900-001	W	02-17-14
	504-0027-922() 28VDC, (8°)	100-0900-001	W	02-17-14
900-23EH Without Flight Director	504-0027-945()	100-0900-001	W	02-17-14
	504-0027-946()			
	504-0027-947()			
	504-0027-948()			
	504-0027-949()			
	504-0027-950()			
	504-0027-955()			
504-0027-956()				
Emergency Power Unit EPU28-24RM Series TSO C4c				

Model	Part Number	MDL	Revision	Date
EPU28-24RMT	0900-1840-22T 24V Output	100-2824-001	T	02-09-09
EPU28-24RM8	0900-1840-228 28V Output	100-2824-001	T	02-09-09
EPU28-24RM4	0900-1840-224 14V Output	100-2824-001	T	02-09-09
AC Inverter Series PAC-75 TSO C73				
PAC-75	8835-1005-0901() 28VDC, 75VA 400Hz	100-8835-006	B	04-02-03
	8835-1005-0902() 14VDC, 75VA 400Hz	100-8835-006	B	04-02-03
ARINC 429 Gyro Sensor TSO C4c				
A429-2	8837-1002-0901	100-0429-001	A	3/3/08

The above TSO authorizations, issued under 14 CFR 21.611, are 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 aren't in compliance with the applicable TSO performance standards per 14 CFR 21.2.

You must obtain Federal Aviation Administration (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 any design changes to the office listed below for this TSO article as outlined in 14 CFR 21.619(a). You should notify us of minor design changes within *six months*.

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 the data from public disclosure.

If you have any questions regarding this authorization, please contact Michael A. Heusser by telephone at 817-222-5038.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott A. Horn". The signature is written in a cursive, flowing style.

Scott A. Horn

Manager, Fort Worth Aircraft Certification Office,
Rotorcraft Directorate,
Aircraft Certification Service