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

Small Airplane Directorate
Kansas City Manufacturing Inspection
District Office
901 Locust Street, Room 376
Kansas City, MO 64106-2641
Tel: 816-329-4190 Fax: 816-329-4195

March 2, 2010 Project No. PQ3732CE

Mr. David A. McFarlane
Quality Manager
McFarlane Aviation, Inc.
696 E. 1700 Road
Baldwin City, KS 66006

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

In accordance with the provisions of Title 14, Code of Federal Regulations (14 CFR), Part 21, Certification Procedures for Products and Parts, subpart K, the FAA has found that the design data, based on Test and Computation submitted by McFarlane Aviation, Inc., with your letter dated September 23, 2009, meet the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, the FAA has determined that McFarlane Aviation, Inc., has established the fabrication inspection system required by § 21.303(h) at 696 E. 1700 Road Baldwin City, KS 66006. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement **No.43**.

You are reminded that the provisions of 14 CFR, Parts 21 and 45, noted in our PMA letter of Approval dated September 3, 1993; also apply to the enclosed PMA Listing-Supplement **No.43**. The enclosed supplement should be retained with the original PMA letter as evidence of approval to produce the parts concerned with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,

//TN// March 9, 2010

Tilak Nandipati Date:
Senior Aviation Safety Inspector
Kansas City Manufacturing Inspection District Office

Enclosure

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

McFarlane Aviation, Inc.
696 E. 1700 Road
Baldwin City, KS 66006

PMA No: PQ3732CE_
Supplement **No. 43**
Date: March 9, 2010

Part Name	Part Number	Approved Replacement For Part NO.	Approval Basis and Approved Design Data	MAKE Eligibility:	MODEL Eligibility:
Carburetor Heat Control	MC0411090-4CH	0411090-4	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions.	Cessna Aircraft Company	140 s/n 11847 thru 15075, 140A s/n 15200 thru15724, 170 s/n 18000 thru 18729, 170A, B s/n 18730 thru 25372.
Carburetor Heat Control	MC0713302-5CH	0713302-5	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	150 s/n 17684 thru59018, 172, 172A s/n 36966 thru 47746, 175, 175A s/n 55704 thru 56777, 180C s/n 50662 thru 50911, 180D, E s/n 18050912 thru 18051183, 182B, C, D s/n 51557 thru 53598.
Carburetor Heat Control/ Induction Air Control	MCS1230-2	S1230-2	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	150A, B,C,D,E,F,G s/n 15060773 thru 15067198, 180F, G, H s/n 18051184 thru 18051875, 185 s/n 185-0001 thru 185-1300.
Carburetor Heat Control	MCS1230-19	S1230-19	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	150H,J, K, L, M s/n 15067199 thru 15079405, A150K, L, M s/n A1500001 thru A1500734, 152 s/n 15279406 thru 15285939, A152 s/n A1520735 thru A1521049, 177A, B s/n 17701165 thru 17702752, 180H, J, K s/n 18051876 thru 18053203**.**
Carburetor Heat Control	MC0411090-22CH	0411090-22	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	170B s/n 25373 thru 27169, 172 s/n 28000 thru 36965, 175 s/n 55001 thru 55703, 180 s/n 30000 thru 32150, 182A s/n 33843 thru 51556.

Carburetor Heat Control	MCS1230-7	S1230-7	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	172G, H s/n 17253393 thru 17256512.
Carburetor Heat Control	MCS1230-17	S1230-17	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	172I, K, L, M, N, P s/n 17256513 thru 17276673.
Carburetor Heat Control	MCS1230-3	S1230-3	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	182E, F, G, H, J, K s/n 18253599 thru 18258505.
Carburetor Heat Control	MCS1230-10	S1230-10	Test and Computation per 14 CFR § 21.303. DWG No: 6252, Rev: . none, Date: 01-08-08 or later FAA approved revisions	Cessna Aircraft Company	182L, M, N, P, Q, R s/n18258506 thru 18268615, R182 s/n R18200001 thru R18202041.

----------End of Listing----------

Note: The procedures that have been accepted by the type certificate or TSOA holder and their cognizant FAA Aircraft Certification Office, for minor changes to original parts used on type-certificated products, are also acceptable for incorporating the same minor changes on identical FAA-PMA replacement parts. The FAA-PMA holder must be able to show traceability relating to the TC, STC, or TSOA holder on all minor changes incorporated by this procedure. When these procedures are no longer applicable because of completion of the production contract, or termination of the licensing agreement or business relationship, all subsequent minor design changes to the PMA parts must be submitted in a manner as determined by the ACO. Major design changes (reference to CFR21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original PMA.

//TN//

March 9, 2010

for Michael M. Alberts,
Manager, Kansas City
Manufacturing Inspection District Office

Date:

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