



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

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

October 9, 2007

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

Project No. PQ3732CE

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Per 14 CFR Part 21, Subpart K, we found design data submitted with your letters dated September 24, 2007 and September 27, 2007 to meet the airworthiness requirements of the regulations for the products on which the parts are to be installed. We based our finding on Test and Computation. Also, we determined that your company set up the fabrication inspection system at 696 E. 1700 Road Baldwin City, KS 66006 as required by 14 CFR § 21.303(h). Therefore, we grant Parts Manufacturing Approval (PMA), which authorizes you to produce the replacement parts in the enclosed Supplement No 31.

We remind you that the provisions of 14 CFR, noted in our PMA letter of approval dated October 10, 1996, also apply to the enclosed PMA Listing-Supplement No. 31.

Please keep the enclosed supplement with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,

John Kolin,
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. 31

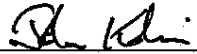
Date: October 9, 2007

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For Part NO.</u>	<u>Approval Basis and Approved Design Data</u>	<u>MAKE Eligibility:</u>	<u>MODEL Eligibility:</u>
Seat Rail	MC1711015-1	1711015-1	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177A, B S/N 17700001 thru 17701636
Seat Rail	MC1711015-2	1711015-2	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev	Cessna	177A, B S/N 17700001 thru 17701636
Seat Rail	MC1711015-3	1711015-3	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177A, B S/N 17700001 thru 17701636
Seat Rail	MC1711015-4	1711015-4	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177A, B S/N 17700001 thru 17701636
Seat Rail	MC1711015-7	1711015-7	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177B S/N 17701637 thru 17702752
Seat Rail	MC1711015-8	1711015-8	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177B S/N 17701637 thru 17702752
Seat Rail	MC1711015-9	1711015-9	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177B S/N 17701637 thru 17702752
Seat Rail	MC1711015-10	1711015-10	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177B S/N 17701637 thru 17702752

Seat Rail	MC2011015-5	2011015-5	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177RG S/N 177RG0105 thru 177RG01366 F177RG S/N F177RG0007 thru 177RG0177
Seat Rail	MC2011015-8	2011015-8	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177RG S/N 177RG0105 thru 177RG01366 F177RG S/N F177RG0007 thru 177RG0177
Seat Rail	MC2011015-9	2011015-9	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177RG S/N 177RG0105 thru 177RG01366 F177RG S/N F177RG0007 thru 177RG0177
Seat Rail	MC2011015-10	2011015-10	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1SR054, Rev. I, dated 08/23/07 or later FAA approved rev.	Cessna	177RG S/N 177RG0105 thru 177RG01366 F177RG S/N F177RG0007 thru 177RG0177
O-ring	MCM83248/1-021	M83248/1-021 NAS1593-021 MS29513-21	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1608, Rev. F, dated 05/03/07 or later FAA approved rev.	Cessna	For eligibility see McFarlane Eligibility Chart Drawing No. 1610 Rev. E, dated 05-03-07 or later FAA approved revision.
Fuel Valve Assembly O-ring Kit	FSS-KT-18	MS29513-012 NAS1593-012 M83248/1-012 MS29513-013 NAS1593-013 M83248/1-013 MS29513-021 NAS1593-021 M83248/1-021	Test and Computation per 14 CFR § 21.303. McFarlane Drawing List 1608, Rev. F, dated 05/03/07 or later FAA approved rev.	Cessna	For eligibility see McFarlane Eligibility Chart Drawing No. 1610 Rev. E, dated 05-02-07 or later FAA approved revision.

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

NOTE: provide minor design changes in a manner as determined by the ACO. Handle Major design changes to drawings and specifications in the same manner as that for an Original FAA-PMA. If TC holder's ICA applies to these replacement parts, provide a statement noting such. If not provide supplementary ICA per 14CFR § 21.50.


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

10/09/2007
 Date: