

Mitsubishi MU-2B Safety Evaluation Action Plan January 16, 2007

Completed Actions

<u>Action</u>	<u>OPI</u>	<u>Status/Comments</u>
Review maintenance manual for clarity, procedures, and the need for standardized training.	KC AEG	Completed
Conduct an FSB to determine if and what pilot training is required.	KC AEG	Completed
Work with MHI to develop an FAA-approved standardized pilot training syllabus.	AFS 800	Completed
Evaluate all existing mandatory SBs and MCAIs using the Airworthiness Concerns Process to determine whether AD action is necessary.	SAD FTW ACO	Completed
Review and identify the differences in normal, abnormal, and emergency flight operations as published in the AFM and the POH for different models of the MU-2B series airplanes. Compare these procedures to the actual practices of the training providers, owners, and operators.	FSB/ SAD/ FTW ACO AFS-800	Completed
Identify and work with MHIA for an FAA-approved standardized checklist.	KC AEG FSB	Completed.

Evaluate the need to mandate the current limitation in the AFM to require a propeller NTS and feather valve check prior to each flight	FSB	Completed
Initiate a Special Maintenance Surveillance Program of MU-2B air taxi operators.	AFS 300	Completed
Consolidate oversight of the two TCs in one office with the Fort Worth Airplane Certification Office having responsibility.	SAD	Completed
For single-pilot operation in IFR, evaluate the use of an autopilot.	FSB	Completed
Re-evaluate the requirement to have autopilot disconnect and trim-in-motion single-pilot operation in IFR.	FSB SAD KC AEG	Completed
Evaluate SDRs for landing gear actuator gearboxes, engine control cables, etc.	SAD FTW ACO	Completed

Near-Term Actions (1 to 3 months)

<u>Action</u>	<u>OPI</u>	<u>Status/Comments</u>
Propose AD action on the following:		
1. JCAB TCD 4889-98: incorporated SB 233A / 095/77-002, inspection of engine torque indication system.	FTW ACO	AD 2006-17-01 issued 8/9/06.
2. JCAB TCD 4379-96: incorporated SB 229A / 090/76-003, inspection of feather valve/linkage inspection.	FTW ACO	AD 2006-15-07 issued 7/11/06.
3. JCAB TCD 4890-98: incorporated SB 234 / 097/73-001, flt. check - flight idle fuel flow setting.	FTW ACO	AD 2006-17-05 issued 8/11/06.

4. SBs 241 / 103/57-004, SAIB CE-04-84, inspection of cracked wing attachment barrel nuts.	FTW ACO	AD 2006-13-15 issued 6/22/06.
5. Mitsubishi Mandatory SB 01661-001 that describes changing blade angle from 16 to 12 degrees and removing Note 3 of the TCDS for TC No. A10SW.	FTW ACO	AD 2006-14-08 issued 7/6/06.
6. Engine action on the spline drive between the Woodward fuel control.	LA ACO	AD 2006-15-08 issued 7/14/06.
7. Engine action on the TPE331 turbine wheel (for special-use lifing).	LA ACO	AD 2006-14-03 issued 6/26/06.
Revise both TCDS' to reflect the licensing agreement of MHI and MHIA.	FTW ACO	Completed.
Revise TCDS No. A10SW to record the TC holder record per FAA Order 8110.4C (paragraph 3.3.d(5)). Revise TCDS No. A2PC to clarify licensing agreement.	FTW ACO	Completed
Evaluate the need for an ice detector system and whether it should be addressed through AD action.	SAD	Completed

Mid-Term Actions (3 to 6 months)

<u>Action</u>	<u>OPI</u>	<u>Status/Comments</u>
Identify specific maintenance training requirements for MU-2B systems and procedures	AFS 300	

Conduct thorough review of navigational aids, approach and departure procedures, and air traffic control procedures at Centennial Airport in Colorado to identify and correct possible factors relating to the recent accidents.	AIA	Completed.
Analyze the safety record of the Swearingen SA 226/227, Beech 99, and Embraer 110 airplanes.	AAI	Completed 7/2006. No further action is required.
If evaluation supports the need for an ice detector system, propose mandating installation through an AD.	SAD	Evaluation Completed. AD Not Required.

Long Term Actions (6 months to 1 year plus)

<u>Action</u>	<u>OPI</u>	<u>Status/Comments</u>
Mandate a standardized MU-2B specific pilot training program. The training should be recurrent and require a test of the pilot's skill.	AFS 800 MHIA	Contingent upon SFAR proposal. Initial draft mandates. Development of standardized training program complete. Manufacturer will begin implementation prior to rule. Implementation scheduled for late July.
Mandate training for all maintenance personnel performing specific maintenance procedures for the MU-2B airplane.	AFS 300	
Mandate the use of the latest maintenance manual and instructions for continued airworthiness.	AFS 300	
Mandate the use of the latest AFM manual revisions for training and operations.	AFS 800 FTW ACO	Contingent upon SFAR proposal. Initial draft mandates.
Complete corrective actions identified in the Special Maintenance Surveillance Program.	AFS 300	

Evaluate and enhance the SDR reporting system (14 CFR 21.3 and 14 CFR 145.221). Add MRRs to SDR database.	AFS 300 AIR	
Revise the icing training AD (including AMOCs) if the subject matter is included in the mandatory training.	SAD	Contingent upon SFAR proposal. Initial draft mandates. AMOCs will be evaluated separately by the Small Airplane Directorate.
Mandate that all aircraft operated by a single-pilot operations in IFR have an autopilot, autopilot disconnect, and trim-in-motion warning system.	AFS 800	Contingent upon SFAR proposal. Initial draft mandates.
Require a propeller NTS and feather valve check prior to each flight	SAD FTW ACO AFS 800	Contingent upon SFAR proposal and proposed checklist.
Mandate the use of a manufacture's standardized pilot checklist	AFS 800 FTW ACO	Contingent upon SFAR proposal. Initial draft mandates. Both the training program and the SFAR will mandate the use of checklist.
Work with MHIA to develop and approve a standardized checklist.	FTW ACO	First model will be approved by 07/18/06. Others will be complete by 12/06.