	<h2>Modification bulletin</h2>	Doc.-No. 017B FES.17.002
		Revision 1
		Date: 2017-12-15
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Subject: Modification of FES Battery pack, Fire warning system and Manuals

Applicability: LAK-17B FES, TCDS No. EASA.A.083, issue 04, date of issue 05/08/2015, all serial numbers

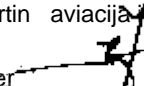
Urgency: Before next flight with FES batteries


Reason: This bulletin is prepared according the EASA issued Emergency Airworthiness Directive No. 2017-0167-E (06 September 2017).

The flight safety of the LAK-17B FES sailplanes with FES batteries is going to be improved by the following modifications and actions:

- 1) The FES batteries used in operation are going to be modified with:
 - a) a reinforced pack housing from flame retardant glassfibre prepreg FR308,
 - b) by performing a complete rebuilding of existing battery packs.
- 2) By introducing to production new battery packs according to GEN2 battery pack drawing v2.4.
- 3) By installing an additional independent from the FES-system fire warning system, which gives a warning of a possible fire when excessive temperatures are detected in the battery compartment.
- 4) By installing the safety valve for smoke venting on the batteries compartment cover.
- 5) By the following changes in the AFM and the AMM:
 - a) description of fire warning system,
 - b) information for the handling and transportation of the FES-batteries,
 - c) information for the FCU correct using in the flight and other small corrections.

- Action:**
1. Perform the Battery packs modification according the drawing "FES Battery pack GEN2 14S v2.4".
 2. Modify the batteries compartment cover according the drawing LAK-17B FES 65 00 01 00 SB "The batteries compartment cover" requirements.
 3. Install the battery compartment fire warning system according the drawing LAK-17B FES 79 01 00 00 SB "Fire warning system" or

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the drawing LAK-17B FES 79 01 00 00-01 SB "Fire warning system".

4. Revision of flight manual (rev.3).

Exchange or additional insertion of flight manual pages.

5. Revision of Maintenance Manual (rev.5).

Exchange or additional insertion of maintenance manual pages.

Material and Drawings:

The latest revision of "Flight MANUAL for the LAK-17B FES sailplane with Front Electric Sustainer system";

The latest revision of "MAINTENANCE MANUAL for the LAK-17B FES sailplane with Front Electric Sustainer system";

FES BATTERY PACK GEN2 manual with integrated BMS (Battery Management System) Version 1.19;

FES FCU instrument manual Version 1.80, (for FCU software version 3.06);

FES BMS CONTROL MANUAL, Version 1.21, (for BMS control software version 1.31);

FES MOTOR MANUAL, Version 1.41, Type: FES-LAK-M100;

FES PROPELLER MANUAL, Version 1.0, Type: FES-LAK-P10-100.

Drawing FES Battery pack GEN2 14S assembly v2.4;

Drawing LAK-17B FES 65 00 01 00 SB "The batteries compartment cover";

Drawing LAK-17B FES 79 01 00 00 SB "Fire warning system";

Drawing LAK-17B FES 79 01 00 00-01 SB "Fire warning system";

Parts kit for the fire warning system LAK-17B FES;

Parts kit for the safety valve on the batteries compartment cover.

Weight and Balance:

Mass differences are so small, that a new weight and C.G. determination is not necessary.

Release to service:

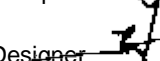
Adding, exchanging the AFM and AMM pages can be done and released by the Pilot-Owner.

The Battery packs modification must be performed only by manufacturer.

Modification of the batteries compartment cover and installation of the batteries compartment fire warning system requires a release to service by certifying staff.

Approval:

The technical information contained in this Service Bulletin has been approved by EASA with approval number # 10064177.

2017-12-15	Poci nai, Prienai, Lithuania	JSC "Sportin aviacija ir KO" Chief Designer  /K. Juo as
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