

Thanakom Panyothin

From: McConnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent: Monday, August 27, 2018 2:59 PM
To: Thanakom Panyothin
Cc: Grant Robinson; Nakhon Avionics; hums
Subject: S-92 Spurious Check BMS indications

Khun San

Following is a Customer Service Engineering communication to another S-92 customer detailing the causes of, and proposed fix for spurious Check BMS indications sometimes reported by S-92 crews.

Aircraft Model: S-92A
ATA: 31
Case Subject: CHECK BMU ADVISORY - NUISANCE FAULT

Problem Description:

Customer reports Check BMU advisory on power up, with no fault codes and is reset with soft key or by powering off the aircraft.

Customer requests why this is happening, and what is SA doing to resolve this nuisance fault.

This email notification is provided as the case has been reviewed and does not contain technical data in the issue description.

Problem Resolution:

The Check BMS nuisance advisory on start-up is due to the BMU not truly being active before rotors start turning. Additionally, it is powered from the DC Primary Bus 2, so it will not report status at all when the aircraft is only on battery power.

There are two fault paths that can cause the Check BMS advisory: ARINC indication from the BMS > HUMS > MDC, and an open discrete to the DCU.

We have made a HUMS software change so that the erroneous annunciation should no longer be caused from the ARINC signal path. This software is wrapping up development and is planned to be certified by the end of the year [2018]. Aircraft level testing has not yet been completed to verify the software as a fix to this problem and it is possible that we will need to make a change in AMS 11 (requirements and planning underway) to put this to bed. We are currently wrapping up AMS 9 (AMS 10 is being used by another program) and the AMS cycles typically take 3 years from planning to certification and field availability.

This email notification is provided as the case has been reviewed and does not contain technical data in the resolution.

Regards,

David P. McConnell

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