

## Grant Robinson

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**From:** Mcconnell, DAVE P <dave.p.mcconnell@lmco.com>  
**Sent:** Tuesday, May 08, 2018 2:03 PM  
**To:** Daryl Dixon  
**Cc:** Grant Robinson; Nattawut Wongyai; Nakhon Avionics; hums  
**Subject:** S-76D HUMS chip detector processor channels  
**Attachments:** HS-HVF chip system fault.pdf

Daryl

Provided for info and reference.

Following is CSE information regarding chip detector processor channels used on the S-76D.

Case Number: C0094056  
Customer: Thai Aviation Services Limited  
Aircraft S/N: 7610XX  
Aircraft Model: S-76D  
Part Number: 92600-02801-101  
Case Subject: Chip System Processor Channel Assignments

### Problem Description:

TAS troubleshooters investigating a CHIP SYS FAULT CAS message blinking three times in flight on A/C S/N 761064 confirmed the fault on HUMS and noted that it correlated to a Fault CH\_1 indication.

During troubleshooting it was noted that there is no ready-reference list available in the AMM to show what component is represented by which chip detector processor channel.

Further research by TAS Avionics in the AMM schematics 63-41-01 indicates the following:

Channel 1 = MGB L/H chip detector  
Channel 2 = MGB R/H chip detector  
Channel 4 = No 1 Eng chip detector  
Channel 5 = No 2 Eng chip detector  
Channel 6 = IGB chip detector  
Channel 7 = TGB chip detector

TAS advises that channel assignment information would speed troubleshooting of chip system faults if it were to be collected and presented in a more readable format, for example as a table in the chip system Description and Operation section of AMM CH 63.

Also, please advise which channels of the chip detector processor, if any, are not used on the S-76D. EoM

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

### Problem Resolution:

CSE will forward advisement to proper engineering group to add a Table for the chip detector channels in the AMM.

The Chip Detector Processor (CDP) has 11 channels. For the S-76D, 3 & 8, 9, 10 and 11 are not currently used.

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

**David P. McConnell**

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