From:	Mcconnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent:	Monday, July 24, 2017 10:32 AM
To:	James O'Brien
Cc:	Daryl Dixon; Nattapat Pongsatitvittaya; Raffe Taker; Grant Robinson
Subject:	RE: S76D INCORRECT PFD VNE INDICATION - Gear unsafe down

Jim

As a follow-up to this issue, I submitted it as an FTR to ensure it is also being looked at by Engineering. Following is the response I received to that FTR.

Dave

Case Number:	C0065769
Customer:	Thai Aviation Services Limited
Aircraft S/N:	761XXX
Aircraft Model:	S-76D
ATA:	31
Part Number:	6250-02500-109
Case Subject:	Vne Logic With Landing Gear Pinned Down

Problem Description:
Information from Capt. Jim O'Brien, Chief Pilot S76 Fleet, Thai Aviation Services

Reference attached PDF image.

TAS currently have A/C S/N 761063 operating with landing gear pinned down due to an unsafe-down indication (2-green; 1-red).

In that configuration, Power-ON VNE is displayed as the active limit (solid red line).

VNE only defaults to 130 when all three gear indicate green. Recommend this logic be changed to reflect VNE 130 (unless power-on VNE is less than 130) whenever landing gear position indicating system is NOT SAFE-UP. All other times, 130 should be displayed as a red line.

HUMS may also have similar logic and not indicate a gear speed exceedance unless SAFE-UP was indicated.

TAS requests pilot office evaluation of this apparent logic anomaly. EoM

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

Problem Resolution:
The Vne is computed in the VMM and not HUMS.

We have captured this request in an SIR. This will likely be a 2018 project, so we are looking at a 2019 release.

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

Hi Dave:

Request forward. We currently have an aircraft with an unsafe-down indication (2-green; 1-red). In that configuration, Power-ON VNE is displayed as the active limit (solid red line); VNE only defaults to 130 when all three gear indicate green. Recommend this logic be changed to reflect VNE 130 (unless power-on VNE is less than 130) whenever landing gear position indicating system NOT SAFE-UP. All other times, 130 should be displayed as a red line. I presume HUMS would also be a problem, and not indicate a gear speed exceedance unless SAFE-UP was indicated.

Photo below.

Thanks,

Jim

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