

Grant Robinson

From: Mcconnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent: Monday, October 02, 2017 10:19 AM
To: Grant Robinson
Cc: Mrazik, Philip; Atiporn Chiwcharoen
Subject: S-76D Air Conditioning Compressor Cannon Plug

Grant

Following is the CSE response to my FTR requesting clarification regarding the plastic, nonconforming electrical connector furnished on the S-76D compressor pallet.

Please note that air conditioning option drawing 10076-90V001 provides data for replacement of the connector as well as the addition of shielding to the pallet wiring harness.

Case Number: C0070969
Customer: Thai Aviation Services Limited
Aircraft S/N: 760XXX
ATA: 21
Part Number: 76-0551-1
Case Subject: Nonconforming AC Compressor Pallet-Request To Field Mod

Issue Description:

To date, TAS have replaced three P/N 76-0551-1 air conditioning compressor pallets in their S-76D fleet.

Each replacement pallet received from SCI has been found to be fitted with a plastic electrical connector. The aircraft side of the wiring harness connector P21002K is fitted with steel connector P/N D38999/24WC8PN.

The plastic connector provided with the pallet does not mate to the airframe connector.

In each event, TAS have been forced to unpin the plastic connector on the received pallet and replace it with the steel connector cannibalized from the removed, unserviceable pallet.

Reference SGH Air Conditioning System W/D (Keith) drawing 10076-90V001 Page 3 connector P21002K: Flag Note 9 states: Add overbraid to vendor harness and replace connector as shown. The P/L calls out connector P/N D38999/26WC8SN.

This modification is not being done on spare P/N 76-0551-1 compressor pallets prior to shipment to TAS.

TAS request the following:

- 1) All future shipments of P/N 76-0551-01 compressor pallets be modified per Dwg 10076-90V001 Flag Note 9.
- 2) P/N 76-0551-01 appears to be Air Comm's vendor P/N for an unmodified pallet. Please advise what P/N TAS should use to order to receive a modified pallet from SCI.
- 3) TAS request SA approval to modify any unmodified pallet received from SCI in order to bring its configuration into conformance with Dwg 10076-90V001 Sheet 3, Flag Note 9. EoM

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

Problem Resolution:

1/2. Our installation W/D for the pallet calls out to replace the existing connector (per Note 9 on the W/D – 10076-90V001) The vendor uses this assembly (in other forms) on other aircraft applications besides the

S76. The plastic connector is standard fit for them. In order to maintain our EMI requirements for the S-76D the connector is changed when the pallet is installed during aircraft completions. The drawing is provided in the customer's data package for the aircraft.

3. The customer may modify pallets to conform with S-76D air conditioning options drawing 10076-90V001.

Sikorsky has recently gone back to AIRCOMM to ask if they could replace the plastic connector with the EMI connector Sikorsky uses for pallets that are destined for the 76D – AIRCOMM is reviewing the feasibility to make that change and what it will affect.

Customer will remove the connector from the pallet they are sending back to vendor and use it to install on new pallet.

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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