

Grant Robinson

From: McConnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent: Saturday, July 01, 2017 6:00 PM
To: Grant Robinson
Subject: S-76 Tank Unit Connector O-Ring P/N

Grant

Following is the CSE response to my request for confirmation of the fuel tank unit connector O-ring P/N.

Case Number: C0064267
Customer: Thai Aviation Services Limited
Aircraft S/N: 761XXX
Aircraft Model: S-76D
ATA: 28
Part Number: 76307-02900-104
Case Subject: Tank Unit Connector O-ring P/N

Problem Description:

Reference

- 1) S-76D IPC CH 28-41-02 Fig. 1, Page 1 It 11
- 2) FTR 0544T003 CRM Log ID 6717

TAS maintainers are reassembling the fuel cells in A/C S/N 761063 after repairing a fuel tank leak and hardware defects in both fuel cells.

Prior to reconnecting the fuel probes electrical connectors at the STA 248.0 bulkhead, TAS maintainers attempted to install a new P/N MS29513-021 O-ring per IPC CH 28-41-02 Fig. 1, Pg. 1, It. 11.

It was discovered that the -021 O-ring was far too large to use.

Reference to legacy S-76A, B and C IPCs revealed that the O-ring called out for the same P/N tank unit is MS29513-019, which TAS maintainers feel is also too large.

TAS believes that the correct P/N should be MS29513-018.

The O-ring P/N could not be determined from the drawing for the tank unit or tank unit installation.

An archives search located FTR 0544T003 CRM Log ID 6717 which indicated that the correct P/N is MS29513-018.

Please confirm that the correct O-ring to be used on the electrical connector of the P/N 76307-02900-104 tank unit is P/N MS29513-018. EoM

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

Problem Resolution:

Propulsion Engineering does not object to use of the -018 O-ring if in the judgment of the maintainer and FSR it correctly matches the fitting and seals properly.

Four (4) different sources for the connector are used, thus the lands of each connector is different which in turn requires different O-ring size.

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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