

Grant Robinson

From: Griggs, DENNIS D <dennis.d.griggs@lmco.com>
Sent: Tuesday, November 15, 2016 9:00 AM
To: Grant Robinson
Subject: FW: Case Summary: AOG - C0046302 - MRB Ultrasonic Inspection

Customer Response

Case Number: C0046302
Customer: Thai Aviation Services Limited
Aircraft S/N: 760724
Aircraft Model: S-76C++
Aircraft TT:
Sub-System: 15 - Blades
Part Number:
Entering FSR: Dennis Griggs
Submitted On: 11/14/2016 10:58 AM
Hours Open:
Severity: AOG
Contact Name:
Case Owner: Dave Persico

Given the reference can the transducer they have on site be used for the inspection?

As our discussed for MRB Ultrasonic Inspection, Thai Airway have Transduced 0.50 inch diameter 2.0 MHz and 3.5 MHz that not meet requirement as per Composite Materials Manual 65-10-00 page 208 below screen shot. Please advise can Ultrasonic (Wet Inspection Method) use 2.0 or 3.5 MHz inspection.

*Ultrasonic Flaw Detector Staveley Model, 138 or equivalent
Transducer 0.25 inch diameter 2.25 MHz (Dry Inspection Method)
0.50 inch diameter 2.25 MHz (Wet Inspection Method)
Couplant Ultragel II, contact or approved water washable type
Interconnecting BNC microdot cables as required -
Blade support stands -
*Any type flaw detector, capable of generating screen presentations when calibrated, similar to the screen presentations shown in this procedure can be used (Figure 202).

(6) Dry Ultrasonic Inspection RSTA 24.25 to 32.00.
NOTE: Ultrasonic inspection must be performed by properly trained personnel qualified per ASNTSNT-TC-1A, Level II, or to programs approved by Sikorsky Aircraft.
(a) Minimum Calibration Requirements.
COMPOSITE MATERIALS MANUAL, SA 4047-76-5
65-10-00
Page 208
May 15/13

Problem Resolution:

The Sikorsky NDI QA Lab personnel reviewed the customer's request and indicates the following information.

The 0.5" 2.0 MHz probe is very close to the 2.25 MHz specified in the manual for the wet inspection and should be adequate for the technique. The 3.5 MHz transducer would work as well, but is a more sensitive test due to the higher frequency. It is recommended the customer perform the inspection with the 3.5MHz probe first.

Content Approver: Dave Persico

Dennis D Griggs

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