

## Grant Robinson

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**From:** McConnell, DAVE P <dave.p.mcconnell@lmco.com>  
**Sent:** Saturday, December 30, 2017 7:28 AM  
**To:** Grant Robinson  
**Cc:** Thomas Jacobson  
**Subject:** S-76D TR Abrasion Strip Alt Spec No.

Grant

Following is the CSE response to my FTR requesting approval to use an alternate spec non self-adhesive TR abrasion strip on S-76D TR blades.

Case Number: C0076879  
Customer: Thai Aviation Services Limited  
Aircraft S/N: 761XXX  
Aircraft Model: S-76D  
Part Number: 76101-06001-042  
Case Subject: S76D-TRB Abrasion Strip-Request For Alternate Spec Material

### **Issue Description:**

#### Reference

- 1) S-76 SRM SA 4047-76-5
- 2) 3M Brochure - Attached

TAS report poor adhesion of TRB abrasion strip self-adhesive tapes, resulting in installed times of less than 100 hours during periods of monsoon rains.

Local experience has shown that non-self adhesive polyurethane tape adhered with EA 9309.3NA Hysol works best in the monsoonal tropical environment.

S-76 SRM SA 4047-76-5 Chapter 65-00-00 Table 202 Item 44 calls out Tape, Polyurethane, No adhesive backing, 0.025 thick, specification number SS9538-001A, Vendor Stik-II Products, Easthampton MA.

TAS reports being unable to procure the specified tape despite research through various suppliers.

Reference attached 3M brochure.

TAS request SA approval to use 3M blade tape 8542NA (non-adhesive) with 9309.3NA Hysol on the S76D model Tail Rotor blades in lieu of SS9538-001A specified in the SRM. EoM

### **Problem Resolution:**

Sikorsky Engineering states that the application of the above 3M Non-Adhesive Back Polyurethane Abrasion Resistant Blade Tape with EA9309.3NA paste adhesive is approved.

Also recommend sealing the edges of the polyurethane abrasion resistant tape with SS8630 Type 2 sealant, if not already performed.

A review of SS8630, Type 2 Sealant Classifications lists as follows:

AMS-S-8802, Class A and C; MIL-S-11030, Type III; MIL-PRF-81733, Type I and III; AMS 3265, Class A and C; AMS 3276, Class A and C; AMS 3281, Class A and C; AMS 3284, Class B; SS8629, Class B; or AMS 3277, Class A and C.

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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