



AIRWORTHINESS BULLETIN

Corrosion of #1 and #2 DC

AWB 80-002 **Issue :** 1

Starter/Generator Earth Points on Sikorsky **Date :** 03 April 2008

S76 Series Rotorcraft

1. Applicability

This AWB is applicable to all Sikorsky S76 series rotorcraft.

2. Purpose

The purpose of this AWB is to bring to the attention of Registered Operators and Maintainers of Sikorsky S76 series rotorcraft that there is a possibility of the generator failing due to corrosion build up and lack of torque on the DC Starter/Generator earth points.

3. Background

A recent investigation into the cause of a generator failure on a Sikorsky S76A rotorcraft, revealed that GRN FT1 and GRN FT 2 (#1 and #2 DC Starter/Generator earth points), had corroded and became loose, causing an open circuit which prevented the generator from operating.



Figure 1: Corroded and burnt Earth Terminal

Corrosion of #1 and #2 DC

AWB 80-002 **Issue :** 1

Starter/Generator Earth Points on Sikorsky **Date :** 03 April 2008

S76 Series Rotorcraft



Figure 2: Corroded Earth Terminal Point

4. Recommendation

It is recommended that All Registered Operators of Sikorsky S76 Rotorcraft:

- Have all DC Starter/Generator earth points inspected for correct torque and corrosion.
- Replace any DC Starter/Generator earth points which are found to be corroded or damaged.
- Re-torque and DC Starter/Generator earth points which are found to be loose or below recommended torque loading.
- Report all DC Starter/Generator earth points found to be corroded, under-torqued or damaged to CASA through the normal SDR reporting system.

5. Enquiries

Enquiries with regard to the content of this Airworthiness Bulletin should be made via the direct link e-mail address:

AirworthinessBulletin@casa.gov.au

Or in writing, to:

Airworthiness Engineering Branch
Civil Aviation Safety Authority
GPO Box 2005, Canberra, ACT, 2601