

Initiated by: Dave Emrich

Project Manager: Tom Booler

Proposed Priority: Fast Track Normal

Title: Relocation of Receiver Air-con exhaust fans

Affected item(s):

16 Production Receivers at the MRO

Technical description of change:

In order to improve air-conditioner serviceability, in particular for periodic fan replacements to pre-empt motor failures, we had the GCo crew re-locate the air-con exhaust fans from the covers, to the main air-con "skid", during the first run of pre-emptive fan motor replacements conducted during the Feb site trip. We also fitted crimp terminals on the power cables instead of the previous soldered connections.

Reason for change and expected benefits:

The air-conditioner cover was difficult to remove and replace due partly to the exhaust fan being attached to the cover and trailing its 240V mains power cord. This meant that the power cable had to be carefully guided while the lid was closed, to avoid pinching the cable or having it prevent the cover closing properly, making it a three person job. The cover is already hard enough to replace due to the need to carefully align the cover screws and provide pressure to the RFI sealing fingers.

Relocating the exhaust fan onto the air-con skid meant that the power cable could be permanently routed to avoid fouling the cover or other air-conditioner components. Furthermore, due to changing from soldered to crimp terminal connections, the fans can be replaced in the future without the need to solder in the field.

Effective Date:
(dd-mm-yyyy) 2018-03-01

Reason for given effective date: These modifications were completed in a site trip prior to the above date.

Expected impact on cost (\$AUD): Cost for future air-conditioner maintenance should be reduced due to the expected reduction in labour/time.

Impact on schedule: All 16 receivers can have fan maintenance done in two or three days, instead of a full working week.

Other impacts: Nil.

Attached Document(s):

See photos below showing new mounting position for fans.

Author: Dave Emrich

Signature: 

Email: d.emrich@curtin.edu.au

Date: 2018-02-16

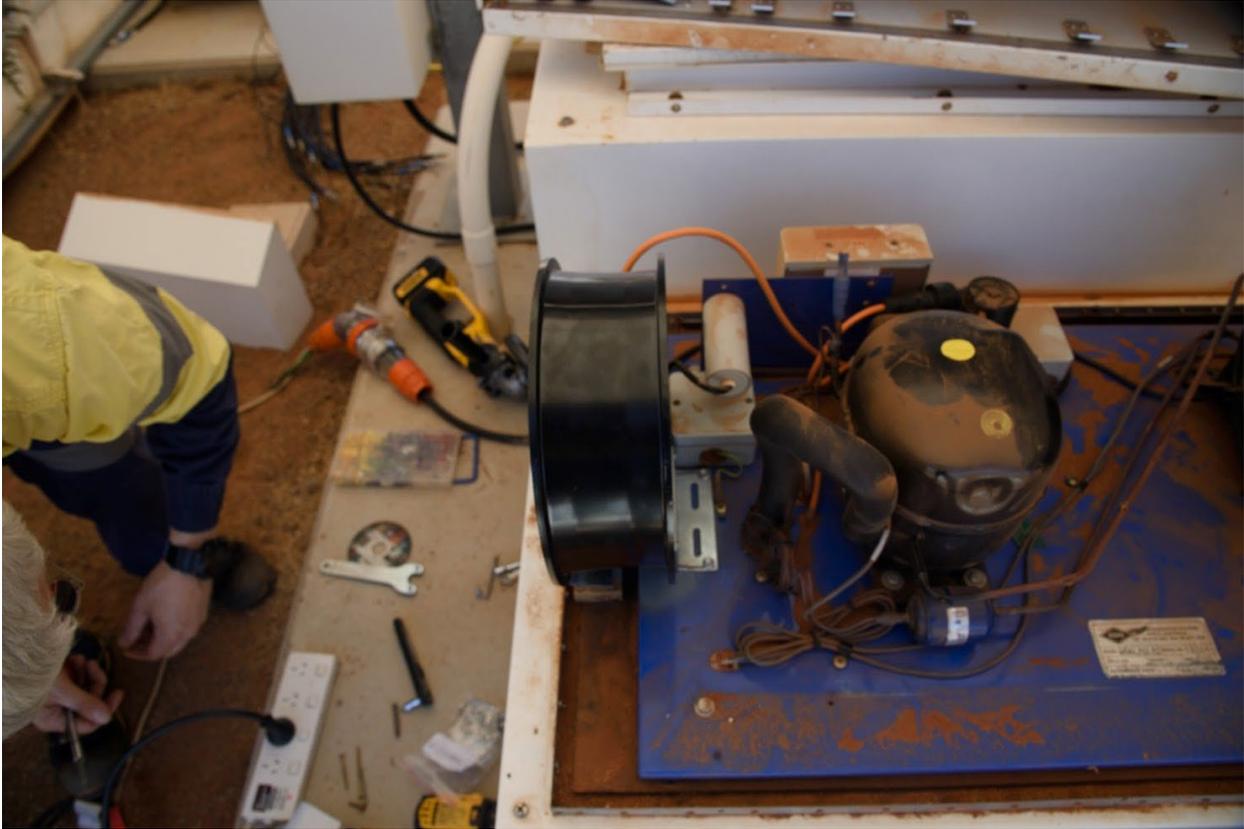


FIGURE 1: EXHAUST FAN MOUNTED TO AIR-CON SKID VIA NEW BRACKETS.

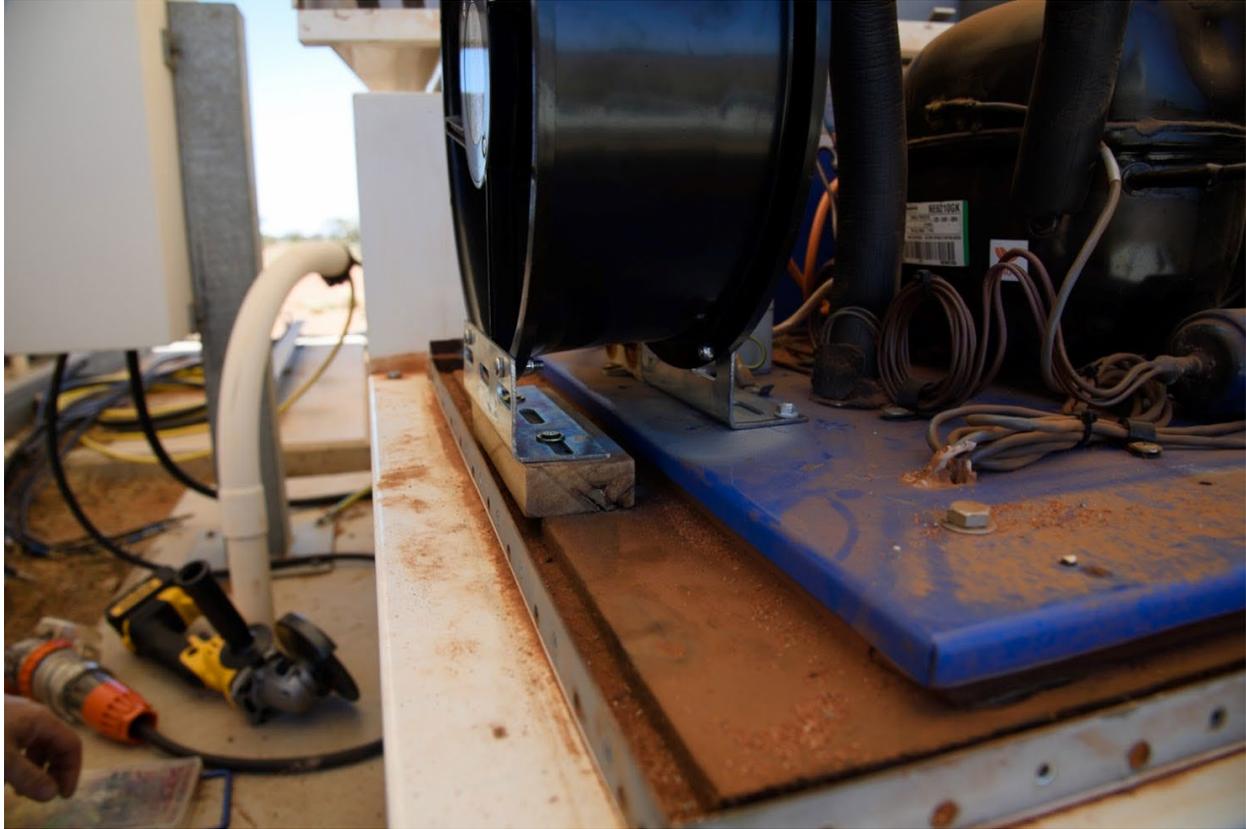


FIGURE 2: CLOSE UP OF MOUNTING BRACKETS AND TIMBER PACKER