



**Civil Aviation Authority of Papua New Guinea  
Register of Airworthiness Directives**

**PNG AD/Gen/015 Rockwell Collins 621A-3 Transponders**

**Issue 1. 01/02/05**

**Applicability:**

Aeroplanes type certificated in the Transport Category equipped with Rockwell Collins Mode C 621A-3 Air Traffic Control (ATC) transponders, part number (P/N) 522-2703-XXX (where XXX is any series number).

**Requirement:**

1. Perform a pulse width test to detect malfunctions of any Mode C 621A-3 ATC transponder(s) P/N 522-2703-XXX, where XXX is any part number, in accordance with Rockwell Collins Air Transport Systems Overhaul Manual with Illustrated Parts List, Temporary Revision No. 34-44-00-38, dated 20 April 2000.

***Note 1:** Pulse width tests done using TIC-49, ATC-601, ATC-601A, or ATC-1400A ramp or bench testers meet the applicable test requirements in Requirement 1 or 2.*

***Note 2:** Previous checks used to perform the test specified in Requirement 1, per Rockwell Collins Air Transport Systems Overhaul Manual with Illustrated Parts List, Temporary Revision No. 34-44-00-38, dated 20 April 2000, are acceptable for compliance with Requirement 1*

2. If the Requirement 1 pulse width test detects malfunction of a transponder, carry out the following, as applicable, in accordance with Rockwell Collins Service Bulletin 621A-3-34-21, Revision 1, dated 14 November 1975:

**a. For transponders having serial numbers up to and including 7192 -**

Replace the transmitter tube and resistor with a new tube and resistor and repeat the Requirement 1 pulse width test.

**b. For transponders having serial numbers 7193 and subsequent –** Replace the transmitter tube with a new tube and repeat the Requirement 1 pulse width test. Accomplishment, prior to the effective date of this Directive, of the replacement specified in Requirement 2.a. or 2.b, as applicable, in accordance with Rockwell Collins Service Information Letter (SIL) 00-1 dated 25 May 2000 is considered acceptable for compliance with Requirement 2.a. or 2.b.

3. If the follow-up pulse width test required by Requirement 2 detects malfunction of a transponder, repair the transponder in accordance with the applicable Mode C transponder component maintenance manual and aeroplane maintenance manual.

***Note 3:** FAA AD 2002-06-05 Amdt 39-12682 refers.*

**Compliance:**

For Requirement 1 – Prior to the initial issue of a Papua New Guinea Certificate of Airworthiness.

For Requirement 2 - Before further flight.

For Requirement 3 - Before further flight.

**WILSON SAGATI**  
Deputy Director – Aviation Safety Regulations

Note. This AD is based on Australian AD/General/83.