

D278-1 GOVERNOR CONTROLLER TEST

AIRCRAFT: R44 SN 1254, N828RD

D278-1 REVISION D, SERIAL NUMBER 1333

D278-1 Governor controller, serial number 1333, was brought to the facilities of Robinson Helicopter on 8 November 2017 by John Soltis and Chris Schulte of the FAA, Los Angeles MIDO. The unit was tested in accordance with Robinson RPS – 69, revision D. Information and measurements required by the RPS were entered onto the form associated with the RPS. A second form, with additional descriptive information and a graph are provided along with the original test form. The test data was not entered directly onto the second form at the time of the test, because the form was not yet available.

The unit passed all required tests, using the service limits that apply to this unit. The test was witnessed by Ken Martin, Roger Eladli, and Hansil Bhadlawala of RHC. The unit was retained by John Soltis for return to the NTSB.

Ken Martin

Robinson Helicopter

Engineering/Technical Investigations



Federal Aviation Administration

Memorandum

Date: 11/16/2017

To: Timothy W. Monville, Senior Air Safety Inspector, NTSB-ERA

From: Dale McMann, Manager, Los Angeles / Van Nuys MIDO Section, AIR-873 ✓

Prepared by: John M. Soltis, Aviation Safety Inspector, Los Angeles / Van Nuys MIDO
Section, AIR-873

Subject: National Transportation Safety Board (NTSB) CASE #: ERA17LA257

This is a final response to NTSB Case # ERA17LA257, the examination and functional testing of the Robinson Helicopter D278-1, Rev. D Governor Controller.

On 10/20/2017 Senior Air Safety Inspector, Timothy W. Monville, NTSB-ERA contacted Brent Bandley, Fixed Wing/Rotorcraft Continued Operational Safety Program Manager Los Angeles Aircraft Certification Office requesting assistance for the examination and functional testing of the Robinson Helicopter D278-1, Rev. D Governor Controller, S/N 1333 (Lot 65). Mr. Bandley then forwarded the request to ASI John M. Soltis of the Los Angeles MIDO for the coordination of the examination and functional testing of the Robinson Helicopter D278-1, Rev. D Governor Controller.

ASI, John Soltis contacted Robinson Helicopter verifying that the D278-1, Rev. D Governor Controller, S/N 1333 (Lot 65) was in fact originally installed at the factory during production of the Robinson R44 Helicopter, S/N:1254, Registration Number N828RD manufactured in 2002 (See the attached Robinson Helicopter Company, Record Sheet, R44 Serialized Components List, RF168C Rev. B).

On 10/20/2017 ASI, John M. Soltis was notified of the UPS tracking information for shipment of the Robinson Helicopter D278-1, Rev. D Governor Controller, S/N 1333 (Lot 65).

On 10/24/2017 ASI, Christopher Schulte received the UPS shipment of the Robinson Helicopter D278-1, Rev. D Governor Controller, S/N 1333 (Lot 65). The package was received in good condition and was then transported and opened for examination and functional testing at the Robinson Helicopter facility with Robinson Helicopter personnel present on 11/8/2017.

On 11/8/2017 Los Angeles MIDO Section ASI's John M. Soltis and Christopher Schulte witnessed the examination and function test of the Robinson Helicopter D278-1, Rev. D Governor Controller, S/N 1333 (Lot 65). Robinson Helicopter personnel present for the functional test were as follows, Martin Schneider - Flight Test QA Supervisor / ODA Administrator, Hansil Bhadlawala - Quality Assurance, Ken Martin - Investigation Engineer, Roger Eladi - Electrical Department Supervisor and Chong Yip - Electrical Department Technician.

The examination and functional testing of the Robinson Helicopter D278-1, Rev. D Governor Controller, S/N 1333 (Lot 65) was conducted in accordance with the Robinson Helicopter process specification RPS-69, Rev. D, Dated 06/05/1995, D278 Governor Controller Calibration and Functional Tests, Section 7, D278 Controller Assembly - Sealed, steps 7.1 and 7.2 were used in the functional testing of the Robinson Helicopter D278-1, Rev. D Governor Controller (see attached RPS-69, Rev. D). The results of the functional test showed that the Governor Controller was operating within its allowable tolerances per the functional test requirements and the results were recorded on the R44 Governor Controller factory test sheet and the in service limits test sheet (see attached originals). All electrical equipment that was required for use during the functional testing of the D278-1 Governor Controller was calibrated and verified by ASI Christopher Schulte. The Robinson Helicopters process specification RPS-69, Revision F, dated 12/3/2009, D278 Governor Controller Calibration and Functional Tests was not used to test the D278-1 Governor Controller due to the design changes in the current F revision of the D278-1 Governor Controller which would have caused failure of the revision D Governor Controller being functionally tested and was not backwards compatible with the Rev. D, D278-1 Governor Controller.

Should you have any questions, please contact ASI, John M. Soltis, Los Angeles MIDO, AIR-873, at [REDACTED] or ASI, Christopher Schulte, Los Angeles MIDO, AIR-873, at [REDACTED]