MORE

Maintenance On Reliable Engines

SERVICE BULLETIN

NOVEMBER 5, 2015   MORE COMPANY S.B. NO. 101
                                                                                            Rev. 1

PT6A TURBOPROP ENGINE
ALTERNATE VIBRATION ANALYZER

1.   Planning Information

   A. Effectivity
       Applies to PT6A engines using the following MORE STC's:
       SE000EN   PT6A-21, -27, -28
       SE00001EN   PT6A-38, -41, -42, -42A
       SE00002EN   PT6A-34, -34AG, -34B, -36, -114, -114A, -116, -135, -135A
       SE00003EN   PT6A-6/C20, -20, -20A, -20B
       SE00004EN   PT6A-11, -11AG, -15AG, -110, -112
       SE00006EN   PT6A-45A, -45B, -45R
       SE00010EN   PT6A-25, -25A
       SE00011EN   PT6A-25C

   B. Concurrent Requirements
       None.

   C. Purpose
       To provide a functionally equivalent but non-identical substitute for the
       Chadwick-Helmuth 192A Spectrum Analyzer. The two systems may not give
       exactly the same results, but the limits defined in the MORE STC Manuals do
       not change.

   D. Description
       The MicroVib II Aircraft Analyzer and MicroBase Vibration Analysis Database.
       This system introduces new functionality that is not available with the
       Chadwick-Helmuth 192A as follows:
       1. The Chadwick-Helmuth 192A measures the frequency range from 150
           cycles per minute to 900,000 cycles per minute. The MicroVib II measures
           the frequency range from 150 cycles per minute to 1,200,000 cycles per
           minute.
       2. The MicroVib II can measure IPS, mils, and G's. The MicroVib II can
           measure IPS and G's in two measurements, faster than the Chadwick-
           Helmuth 192A can measure IPS alone.
       3. The MicroVib II measures both frequency and vibration amplitude more
           accurately than the Chadwick-Helmuth 192A.
       4. The horizontal scale (frequency) on the Chadwick-Helmuth 192A is
           logarithmic, and the frequency on the MicroVib II is linear, making the job
           of interpreting the vibration survey less difficult.
       5. Easily transfer Microbase files across the internet.

6. Propeller balancing solutions are provided by the MicroVib II Aircraft Analyzer.

E. Compliance
This alternative is optional.

F. Approval
Federal Aviation Administration has reviewed and approved the technical contents of this Service Bulletin, Revision Original.
Revision 1 is a Minor Engineering Change approved by Chief Engineer, MORE Company with permission from Federal Aviation Administration. Revision 1 page 3, paragraph 3, - paragraph 3B added.

G. Weight and Balance
None.

H. Electrical Load Data
Not Changed.

I. Software Accomplishment Summary
Contact MORE Company, Inc. at 775-782-3346 to obtain the "MORE Report Generator" software. This software will generate the results in an authorized format "Authorized MORE STC Report". This report allows an internal cross check confirming required limits are met.

J. References
Comply with DSS Application Note – AN-PT6M.

K. Publications Affected
The following MORE Company, Inc. STC's are affected:

SE000EN	PT6A-21, -27, -28
SE00001EN	PT6A-38, -41, -42
SE00002EN	PT6A-34, -34AG, -34B, -36, -114, -114A, -116, -135, -135A
SE00003EN	PT6A-6/C20, -20, -20A, -20B
SE00004EN	PT6A-11, -11AG, -15AG, -110, -112
SE00006EN	PT6A-45A, -45B, -45R
SE00010EN	PT6A-25, -25A
SE00011EN	PT6A-25C

L. Interchangeability and Intermixability of Parts
Not applicable.

M. Reason for Revision
To better define the records keeping requirements when the DSS Micro Vib II is utilized.

2. Material Information

A. Industry Support Information
   Not Applicable.

B. Material Availability
   The MicroVib II Aircraft Analyzer can be purchased from Dynamic Solutions Systems Inc. 760-744-0187. The MORE STC Report Generator software can be obtained from MORE Company, Inc. at 775-782-3346.

C. Manpower

   Not applicable.

D. Material Necessary for Each Engine
   Not applicable.

E. Reidentified Parts
   None.

F. Tooling Availability
   Not applicable.

3. Accomplishment Instructions
   Comply with DSS Application Note – AN_PT6M to collect data. Download data to the MORE STC Report Generator software to obtain the "Authorized MORE STC Report".

   A. Additional Information
      A different bracket and vibration sensor is used with the MicroVib II. The MORE STC Manuals specify the use of Chadwick-Helmuth 192A brackets 6752 or 6752-1. The MicroVib II uses vibration sensor 1460 and high frequency bracket 1472.

   B. Records Keeping Requirements
      The print outs provided by the MORE STC Report Generator software are a suitable replacement / substitute for the Chadwick-Helmuth 192A Red and Green cards.