



**UNITED
TECHNOLOGIES
PRATT & WHITNEY**

400 Main Street
East Hartford, Connecticut 06108

In Reply Please Refer To:
JT3D/72-00/CMS:PAM:2-11-9-1

November 9, 1992

Aviation Engine Service, Inc.
7215 N.W. 44th Street
Miami, FL 33166

Attention: Mr. Neil Bazain
General Manager

Subject: Aviation Engine Service JT3D-7 Test Cell Correlation

Gentlemen:

Pratt & Whitney (P&W) Customer Maintenance Support (CMS) has reviewed the JT3D-7 correlation testing of the Aviation Engine Service (AES) Test Cell No. 22 relative to P&W Test Cell P-74 using Engine P-669591. The engine was calibrated at P&W test cell on October 14, 1992 and it was tested at AES on November 2, 1992 and again on November 5, 1992.

It was concluded from this review that satisfactory correlation results were achieved, and the JT3D-7 test cell thrust correction for the bare engine configuration with bellmouth and inlet screen could be defined. Therefore, AES Test Cell No. 22 is considered fully qualified for the JT3D-7 engine acceptance testing. The Thrust Vs. Engine Pressure Ratio curve and the test cell thrust correction are provided on the attached CMS Curve No. 1033-1 & -2. Also, attached CMS Curve No. 1033-3 is the curve used to determine the PT2 as a function of Cell Depression and N1/ROT2. This curve was generated during the previous JT3D-3B test cell correlation on October 15, 1991. This curve should be used to determine the PT2.

Any changes in test cell geometry or structure, engine position or engine test hardware configuration will require review and possible re-correlation testing.

If you have any questions concerning this subject, please contact either your local P&W representative or me directly.

Sincerely yours,

Phillip A. Ma
Senior Customer Support Engineer
Customer Maintenance Support

Attachments: CMS Curve No. 1033-1 through 1033-3

cc: J. E. Hunt (PW CSM)
R. A. Heber (PW Rep)



U.S. Department
of Transportation
Federal Aviation
Administration

Miami Flight Standards District Office-19
P.O. Box 592015
Miami Fl 33159

November 23, 1992

Mr. Neil Bazain
General Manager
Aircraft Engine Service Inc.
7215 N.W. 44th St
Miami Fl. 33166

Dear Mr Bazain:

The engine test cell data that you have submitted regarding correlation of test cell #22 in building 2120, at Miami International Airport has been approved.

This correlation approval is for JT3D-7 engines. It is also contingent on the current cell and data acquisition and reduction configuration. Any structural or geometric alteration or modification to the test cell, engine dress hardware (cowling) instrumentation or data acquisition and reduction system would require a re-correlation or substantiating data.

If you have any questions please call me at 526-2690.

Sincerely,

Bruce J. Hill
Bruce J. Hill
Principal Maintenance Inspector

Cell No. 22
JT3D-7