

**Transcript of the
Joint FAA/Industry Symposium
on
Level B Airplane Simulator Aeromodel
Validation Requirements**

To the Memory of Daryl Schueler

Part 2 of 7

Preface

**Washington Dulles Airport Hilton
March 13 - 14, 1996**

Preface

This is the transcript of the Joint FAA/Industry Symposium on Level B Airplane Simulator Aeromodel Validation Requirements held on March 13-14, 1996, at the Washington Dulles Airport Hilton. The purpose of the meeting was to discuss the aeromodeling considerations associated with updating FAA qualification requirements for Level B flight simulators. It is available to the public on 3.5" high density drive diskettes in Adobe Acrobat Portable Document Format (PDF) format from Dr. Thomas Longridge, Advanced Qualification Program Manager, AFS-230, Tel. 703-661-0275. The document is platform, application, and font independent and may be viewed and printed using Adobe Acrobat Reader, V. 3.0 for PC, UNIX or Macintosh. The Reader can be downloaded from the Internet at <http://www.acrobat.com>. Upon request, the Reader can be made available on a second diskette.

Flight simulator technology has advanced significantly during the past decade, one result of which is that device capability has increased while cost has declined. However, for commuter airlines, cost continues to be an obstacle to flight simulator access, particularly for recurrent training. We believe that it may be possible to revise Level B simulator qualification procedures and requirements to enhance affordability, without degrading the standards or quality of performance for such equipment. The first step in this endeavor is a comprehensive review, beginning with aeromodeling and flight data considerations. A description of the overall project can be found in Longridge, T., Ray, P., Boothe, E., & Bürki-Cohen, J. (1996): Initiative towards more affordable flight simulators for U.S. commuter airline training, *Royal Aeronautical Society Conference on Training - Lowering the Cost, Maintaining the Fidelity* (pp. 2.1-2.17), London, UK, located in the file *07Append.pdf*. It also contains the final version of the tables referred to in the transcript.

Attendance at the meeting was by invitation only and included selected experts from industry, academia, and government in the disciplines of aerodynamic modeling, aircraft flight test instrumentation, simulator qualification, aircraft certification, and air carrier pilot training. The meeting was chaired by Dr. Thomas Longridge, with the participation and cooperation of Mr. Paul Ray, Manager of the FAA's National Simulator Program. The technical discussions were led by Mr. Edward Boothe. Mr. Donald Eldredge, the Battelle project manager, was responsible for the meeting logistics. The discussions were recorded live by Mr. and Ms. Dave and Allison Hoyman of RealTime Reporters. Dr. Nancy Soja incorporated the participants' comments. Ms. Mary Townsend applied the final editing touches to the transcript. The overall project is managed for Dr. Eleana Edens of the FAA's Human Factors Division AAR-100 by Dr. Judith Bürki-Cohen of the Department of Transportation Research and Special Projects Administration's Volpe Center.

We extend our highest appreciation and gratitude to all. Finally, we would like to dedicate this effort to Mr. Daryl Schueler. We cherish his invaluable contributions to the discussions and deeply regret his untimely death.