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Wake Turbulence Training Aid Background Data



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4.0 Introduction

The avoidance of wake-turbulence encounters will take the coordinated efforts of pilots of all sizes of aircraft and controllers throughout the ATC system. It is the goal of this Training Aid to reduce the number of accidents and incidents attributable to wake turbulence. This section, Wake Turbulence Training Aid - Background Data, is an excellent source of information for an instructor or user needing a more detailed explanation of the material contained in Section 2, the Pilot and Air Traffic Controller Guide to Wake Turbulence or the video, *Wake Turbulence Avoidance - A Pilot and Air Traffic Controller Briefing*. Additionally, this section contains charts and graphs in Appendix 4-A which could be utilized by an instructor to emphasize specific points. The material in this section is intended to be an additional resource for training and answering questions raised in the training process.

4.0.1 Goal of the Background Data Section

The goal of this section is to provide to users, particularly instructors, additional information and sources of information that can be utilized in instruction or understanding of wake turbulence. Periodically, this information will be updated as new information is

gathered and additional reports, findings, and issues are addressed by the wake turbulence industry team.

4.0.2 Overview of the Contents

Appendix 4-A, the NTSB Special Report of Wake Turbulence, addresses specific incidents, wake turbulence issues, and makes recommendations regarding wake turbulence; Appendix 4-B, the 1991 Report of Where We Are Today in Wake Turbulence, gives an historical accounting of the efforts and history of research regarding wake turbulence; Appendix 4-C, Wake Turbulence Training Aid Guidelines and Issues, outlines some of the guidelines used in developing this training aid and addresses issues that were discussed at length by the industry team; Appendix 4-D, the FAA Integrated Wake Vortex Program Plan, outlines present and future efforts to assist pilots and controllers in avoiding wake turbulence encounters; Appendix 4-E is a bibliography of further research issues related to wake turbulence. Lastly, Appendix 4-F is added, as desired by the distributor of the aid, to inform pilots and controllers of the wake turbulence take-off weight categories and the latest IFR separation standards in effect that deal with wake turbulence. It is expected that these standards will change periodically.

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