Flight to the Future:: Human Factors in Air Traffic Control

Panel on Human Factors in Air Traffic Control Automation, National Research Council, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration

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Despite the strong safety record of the national airspace system, serious disruptions occasionally occur, often as a result of outdated or failed equipment. Under these circumstances, safety relies on the skills of the controllers and pilots and on reducing the number of aircraft in the air. The current and growing pressures to increase the capacity to handle a greater number of flights has led to a call for faster and more powerful equipment and for equipment that can take over some of the tasks now being performed by humans. Increasing the role of automation in air traffic control may provide a more efficient system, but will human controllers be able to effectively take over when problems occur? This comprehensive volume provides a baseline of knowledge about the capabilities and limitations of humans relative to the variety of functions performed in air traffic control. It focuses on balancing safety with the expeditious flow of air traffic, identifying lessons from past air accidents. The book discusses

- The function of the national airspace system and the procedures for hiring, training, and evaluating controllers.
- Decisionmaking, memory, alertness, vigilance, sleep patterns during shift work, communication, and other factors in controllers' performance.
- Research on automation and human factors in air traffic control and incorporation of findings into the system.
- The Federal Aviation Administration's management of the air traffic control system and its dual mandate to promote safety and the development of air commerce.

This book also offers recommendations for evaluation the human role in automated air traffic control systems and for managing the introduction of automation into current facilities and operations. It will be of interest to anyone concerned about air safety--policymakers, regulators, air traffic managers and controllers, airline officials, and passenger advocates.

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Precisely why? Because this Flight to the Future:: Human Factors in Air Traffic Control is an unordinary book that the inside of the guide waiting for you to snap the item but latter it will surprise you with the secret this inside. Reading this book alongside it was fantastic author who write the book in such wonderful way makes the content interior easier to understand, entertaining technique but still convey the meaning fully. So , it is good for you for not hesitating having this any longer or you going to regret it. This excellent book will give you a lot of gains than the other book have such as help improving your ability and your critical thinking way. So , still want to postpone having that book? If I were being you I will go to the e-book store hurriedly.

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