



Aviation Information Management

From Documents to Data

Edited by

Thomas L. Seamster & Barbara G. Kanki



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(Michael G. Shafto, Ph.D., Computational Sciences Division, NASA-Ames Research Center)

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Jack W. Eastman is the Senior Director of Standards, Quality Assurance and Development for Flight Operations at Atlas Air. He holds a Ph.D. in corporate strategy from Kent State University. He has been the leader in the creation and development of Atlas Air's innovative electronically-based, corporate-wide, integrated document services project. Prior to Atlas, Captain Eastman spent many years at Trans World Airlines as Managing Director of Flight Training and Development, where he led the development of network and web-based deployment of flight manuals, training materials and computer-based training curricula.

Anita Kanakis is an IT Project Lead at United Airlines. Her twenty-plus year career in publishing began with a focus on typography and design. She has experience in implementing publishing systems and providing design specifications for corporate, legislative, educational and other state agencies. She has helped lead the early effort to automate publishing at United Airlines, providing infrastructure specifications for the reengineered publishing process, automated workflow and data conversion as a key member of the development team. She is currently expanding the scope of automated workflow and data conversion to identify cross-divisional solutions for sharing and optimizing information.

Barbara G. Kanki is a Research Psychologist at NASA Ames Research Center with a Ph.D. in Behavioral Sciences from the University of Chicago. She has conducted crew factors research in both aviation and space systems; from flight crew communications and Crew Resource Management, to crew issues in ATC, maintenance and space shuttle processing. Customer collaborators include NASA, the FAA, the National Transportation Safety Board, as well as airline, military, manufacturer and union organizations. She manages human factors research under several NASA safety programs, and has conducted FAA-sponsored research in airline operating documents. With Dr. Seamster, she co-chairs the NASA/FAA Operating Documents Group.

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Thomas L. Seamster is Senior Research Scientist at Cognitive & Human Factors. He has directed research in aviation human factors of air traffic control, crew systems and crew training. He has conducted research on expertise in computer programming, flight crew resource management assessment, fighter pilot weapons deployment and spacecraft control. He has developed and tested user interfaces for both military and commercial systems and has developed expert and intelligent tutoring systems for the aerospace community. Recently, Dr. Seamster has conducted research in airline operating documents and, with Dr. Kanki, has co-chaired the NASA/FAA Operating Documents Group.

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Rick W. Travers has been Manager, Technical Writing and AOM Support at Air Canada. He is the Chair, Flight Operations Working Group (FOWG), ATA Technical Information and Communications Committee. As Manager, Technical Writing and AOM Support, Captain Travers has been responsible for the restructuring and implementation of an integrated flight operations information schema at Air Canada. As the Chair of the ATA FOWG, he has championed common information standards and the development of their specification. In that capacity, he has promoted the use of an industry Phase of Flight Specification and the ATA System Specification for flight operations information data tagging.

Daniel R. Wade is Director of Business Development with Astronautics Corporation of America. Mr. Wade has assisted in the product development and market planning of many advanced computer and display products in his 18 years with Astronautics, including many US Government and internally funded research projects. He has led the internal developmental planning of ruggedized smart display systems for transport aircraft, airport emergency vehicles, ships and other vehicles. Mr. Wade is managing the ongoing effort for the Astronautics Pilot Information Display and is the coordinator of the Astronautics/Airline/Industry/US Government Electronic Flight Bag working group meetings.

