



U.S. Department of Transportation
Federal Aviation Administration

FINAL PROJECT REPORT

Form Approved:
O.M.B. No. 2120-0059
11/30/2006

PART I - PROJECT IDENTIFICATION INFORMATION

1. Institution and Address Wright State University, Dept. of BIE	2. FAA Program ACX-50	3. FAA Award Number 04-G-034
3640 Colonel Glenn Hwy Dayton, OH 45435	4. Award Period From 06-23-04 To 06-22-06	5. Cumulative Award Amount \$119,681.00
6. Project Title Development of Specifications for an Interactive Aircraft Accident Data Collection and Analysis System		

PART II - SUMMARY OF COMPLETED PROJECT (For Public Use)

Understanding the nature and mechanisms of injuries during an aircraft accident is essential to develop interventions to increase occupants' survivability. The Civil Aerospace Medical Institute (CAMI) is working toward the development of an Aircraft Accident Injury and Autopsy Database System (AA-IADS) to replace the current Autopsy Database. The goal of this research was to develop systems requirements and conceptual designs toward the development of the AA-IADS. Specific tasks performed included a literature review related to collection and evaluation of injury data, review of current accident injury database systems, and evaluation of alternative software and hardware for database development. This report discusses the outcomes of this project and systems requirements for AA-IADS. The concepts for AA-IADS include integration of data from the NTSB Accident Database (NASDAC version), the CAMI Toxicology Database, and CAMI Document Imaging and Workflow System, advanced data visualization of information, the ability to perform data queries, and rapid development of custom data sets to address specific research questions.

PART III - TECHNICAL INFORMATION (For Program Management Uses)

1. ITEM (Check appropriate blocks)	NONE	ATTACHED	PREVIOUSLY FURNISHED	TO BE FURNISHED SEPARATELY TO PROGRAM	
				Check (X)	Approx. Date
a. Abstracts of Theses	X				
b. Publication Citations				X	Sept. 2007
c. Data on Scientific Collaborators		X			
d. Information on Inventions	X				
e. Technical Description of Project and Results		X			
f. Other (specify)					
2. Principal Investigator/Project Director Name (Typed) Jennie J. Gallimore, Ph.D.	3. Principal Investigator / Project Director Signature <i>Jennie J. Gallimore</i>			4. Date 09-19-06	