
CUFONSM

The Computer UFO Network

<http://www.cufon.org/>
email@cufon.org

Dale Goudie – Information Director, Jim Klotz – SYSOP, Chris Lambright - Webmaster

Adobe Portable Document Format Version of
**Reports originated by the Federal Aviation Administration
Office of Aviation Research – from April 1995 through March 2001**
PART 2 of 2 - Reports generated by or for the Airport and Aircraft Safety Division
and Aviation Security Division

6 April 2001

Originally posted on the CUFON web site.

See: http://www.cufon.org/special/FAA_Rpts_2.htm

Thanks go to Michael Ravnitzky, mikerav@ix.netcom.com for alerting us to the availability of these lists of reports.

Two lists of research reports originated by the Federal Aviation Administration Office of Aviation Research are available from the FAA.

- Reports generated by and for the Research Division and Human Factors Divisions, and
- Reports generated by or for the Airport and Aircraft Safety Division and Aviation Security Division. (This file)

Many of these reports have never been released or mentioned outside the agency.

- Jim Klotz - CUFON SYSOP
- Dale Goudie - Information Director

Adobe Acrobat ® Software underwritten by:

Roderick Dyke
Archives for UFO Research,
News and Information Services



U.S. Department
of Transportation
**Federal Aviation
Administration**

800 Independence Ave., S.W.
Washington, D.C. 20591

MAR 23 2001

Mr. Dale Goudie

ADDRESS DELETED
BY CUFON -

Re: Freedom of Information Act (FOIA) Request 2001-003975

Dear Mr. Goudie:

The two lists you requested in your letter of March 16 are enclosed. The lists contain all the research reports originated by and for the Federal Aviation Administration (FAA) Office of Aviation Research from April 1995 (the date on which the Office was established within the FAA) to the present.

There will be no search nor copy fees associated with your FOIA request.

Sincerely,

Herman A. Rediess, Ph.D.
Director, Office of Aviation Research

Enclosure

RESEARCH REPORTS - OFFICE OF AVIATION RESEARCH AIRPORT/AIRCRAFT SAFETY AND AVIATION SECURITY DIVISIONS FROM APRIL 1995 TO PRESENT

REPORT NO.	REPORT TITLE
AR-TN95/1	Inspection Reliability of Nortec-30 Eddyscan
AR-95/3	FAA Aircraft Certification Human Factors and Operations Checklist for Standalone GPS Receivers (TSO-C129 Class A)
AR-95/6	Marginal Aggregates in Flexible Pavements: Laboratory Evaluation
AR-95/7	Stochastic Modeling of Antisymmetric Buffet Loads on Horizontal Stabilizers in Massively Separated Flows
AR-95/8	The Effect of Instrument Approach Procedure Chart Design on Pilot Search Speed and Response Accuracy; Flight Test Results
AR-95/10	Certification Methodology for Stiffener Terminations
AR-95/11	Fracture Testing of Large-Scale Thin-Sheet Aluminum Alloy
AR-95/12	Effect of Stiffener/Rib Separation on Damage Growth and Residual Strength
AR-95/13	Structural Integrity Evaluation of the Lear Fan 2100 Aircraft
AR-95/14	Cabin Safety Research Program
AR-95/15	Development of a D SIGHT Aircraft Inspection System - Phase-II
AR-95/16	Test & Evaluation Plan (TEP) for Improvised Explosive Device Detection Baseline (IEDDB)
AR-95/18	User's Manual for the FAA Research and Development Electromagnetic Database (FRED)
AR-95/21	Presentation of Flight Data Recorded on a Boeing 737-400 in Commercial Operation
AR-TN95/22	Fire Response of Geopolymer Structural Composites,
AR-95/29	Fiber Composite Analysis and Design: Composite Materials and Laminates, Volume I
AR-95/30	Walk Through Metal Detector Test Procedure
AR-95/32	Light Shaping Diffusers for Improved Visual Inspection of Aircraft

REPORT NO.	REPORT TITLE
AR-95/33	Test and Evaluation Plan for Invisions CTX-5000 Machine Interface for Alarm Resolution
AR-TN95/34	Project Passenger Baggage Matching (PPBM) Project Technology Assessment Annotated Bibliography
AR-95/35	Airport Security Screener and Checkpoint Security Supervisor Training Workshops
AR-95/36	Computer Reservation System Coverage for U.S. Domestic Airlines
AR-95/37	PPBM RF Prototype Limited Performance Test Plan
AR-95/39	Dupe Checklist System: Resolution Procedures Manual
AR-95/40	Dupe Checklist System: Instructor's Guide for Ground Security Coordinator Initial Training
AR-95/41	Dupe Checklist System: Instructor's Guide for Ground Security Coordinator Recurrent Training
AR-95/42	Dupe Checklist System: Ground Security Coordinator Train-The-Trainer Self-Study Resource Material
AR-95/43	Axial Crack Propagation and Arrest in Pressurized Fuselage
AR-95/44	Evaluation of Prototype Aircarrier Instruments Approach Procedure Charts
AR-95/47	Investigation of Fuselage Structure Subject to Widespread Fatigue Damage
AR-95/48	Automated Inspection of Aircraft Project
AR-95/49	A Study of the Continued Fire Worthiness of Aircraft Seat Cushion Fire Blocking Layers
AR-95/50	Feasibility Study of a Rotorcraft Health and Usage Monitoring System (HUMS): Results of Operator's Evaluation
AR-95/51	Nondestructive Inspection of Piper PA-25 Forward Spar Fuselage Attachment Fitting
AR-95/52	Influence of Cabin Crew Behavior in Emergency Evacuations at Floor Level Exits: Experimental Data
AR-95/53	Survey and Analysis of Rotorcraft Flotation Systems
AR-95/54	Transport Water Impact and Ditching Performance
AR-95/57	A State of the Art Study and Survey of Flexible Pavement Construction Jointing Techniques

REPORT NO.	REPORT TITLE
AR-95/58	Bulk Explosives Detection System Developmental Test and Evaluation: General Protocol for Screening Baggage and Electronics
AR-95/59	Aviation Security Technology Integration Plan
AR-95/60	Catalog of Automated Risk/Vulnerability Assessment Tools Applicable to Airport Security
AR-95/61	Compliance Requirements for Risk/Vulnerability Assessment Tools for Airport Security
AR-95/62	Airport Explosives Security Survey Data Definition Report
AR-95/63	Airport Explosives Security Survey Database
AR-95/64	Security Survey Report: Atlanta Hartfield International Airport
AR-95/70	Airport Explosives Survey Database Analysis
AR-95/71	User Functional Requirements Technical Analysis
AR-95/72	Evaluation Report of Government-Off-the-Shelf (GOTS) Risk/Vulnerability Assessment Tool
AR-95/73	Security Effectiveness Test & Evaluation Plan for Blind Testing: The Baggage Inspection System Airport Operational Demonstration Project
AR-95/75	Engineering Approach to Damage Tolerance Analysis of Fuselage Skin Repairs
AR-95/76	Corrosion and Corrosion Fatigue of Airframe Materials
AR-95/77	Baggage Inspection System Airport Operational Demonstration Project: Simulate Validation Test Report I
AR-TN95/78	Performance of Improved Aerosol Cans Subjected to an Aircraft Fire
AR-95/79	The Effect of Preloading on Fatigue Damage in Composite Structures
AR-95/80	Effectiveness of Load Transfer Devices
AR-95/81	Corrosion of Aluminum Alloys in the Presence of Fire-Retardant Aircraft Interior Materials
AR-95/82	An Analysis of Ground-Flight Loads Measured on the Instrumented B-727 N-40
AR-TN95/83	International Aircraft Materials Fire Test Working Group Material Systems Renovation and Repair Subgroup
AR-95/84	The Role of Research and Development on Safety Regulation

REPORT NO.	REPORT TITLE
AR-95/85	Advanced Pavement Design: Finite Element Modeling for Rigid Pavement Joints, Report I: Background Investigation
AR-95/86	FAA-NASA Sixth International Conference on the Continued Airworthiness of Aircraft Structures
AR-95/87	Full-Scale Test Evaluations of Halon 1211 Replacement Agents for Airport Fire Fighting
AR-95/88	Office of Aviation Security Research and Development: Explosives Training Plan
AR-95/89	Positive Passenger Baggage Matching (PPBM) Functional Requirements - Barcode and Radio Frequency (RF) Applications
AR-95/90	Spin Synchronous X-Ray Sinography (SXS) for Nondestructive Imaging of Turbine Engines Under Load
AR-95/91	Characterization of an Oxygen/Nitrogen Permeable Membrane System
AR-TN95/92	Chemical Analysis of Pump Motor Housing Components from DC-9 Ramp Fire at Barranquilla, Columbia in March 1995
AR-95/93	Positive Passenger Baggage Matching (PPBM) Project Demonstration Test Report
AR-95/94	Positive Passenger Baggage Matching (PPBM) Project Technological Options Report
AR-95/95	Positive Passenger Baggage Matching (PPBM) Demonstration Test Procedures
AR-95/96	Dynamic Performance of High Bypass Ratio Turbine Engines with Water Ingestion
AR-TN95/97	Tire Test Correlation: Radial Versus Bias-Ply
AR-95/98	Advanced Fire-Safe Aircraft Materials Research Program
AR-95/100	Validation of the Magneto-Optic/Eddy-Current Imager
AR-95/101	A Methodology for the Economic Assessment of Nondestructive Evaluation Techniques Used in Aircraft Inspection
AR-95/102	Evaluation of Approach Path Indicators for Heliports
AR-95/103	A Human Subject Evaluation of Airport Surface Situational Awareness Using Prototypical Flight Deck Electronic Taxi Chart Displays
AR-95/104	The Use of Analog Track Angle Error Display for Improving Simulated GPS Approach Performance

REPORT NO.	REPORT TITLE
AR-95/105	Aviation Security Technology Assessment System (ASTAS) Requirements Analysis Document
AR-95/106	Aviation Security Technology Assessment System (ASTAS) Systems Plan
AR-95/108	Characterization of Early Stages of Corrosion Fatigue in Aircraft Skin
AR-95/109	Comparative Evaluation of Failure Analysis Methods for Composite Laminates
AR-95/110	Fiber-Reinforced Structures for Small Turbine Engine Fragment Containment (Phase II)
AR-95/111	Stress-Intensity Factors for Elliptical Cracks Emanating from Countersunk Rivet Holes
AR-95/112	Transport Water Impact, Phase II
AR-TN95/113	JAA Airport Lighting System Requirements Simulator Evaluation
AR-95/114	Federal Aviation Administration Detonator Detection System (DDS) Standard Project: Non-Proprietary Detonator Selected List Report
AR-95/115	Federal Aviation Administration Detonator Detection System (DDS) Standard Project: Proprietary Detonator Selected List Report
AR-95/116	Federal Aviation Administration Detonator Detection System (DDS) Standard Project: Methodology Criteria Report
AR-95/118	Federal Aviation Administration Detonator System (DDS) Standard Project: Detonator Standard Set Report
AR-TN95/119	Representative Values of Icing-Related Variables Aloft in Freezing Rain and Freezing Drizzle
AR-95/120	Proceedings of the International Conference on Cabin Safety Research
AR-95/123	System Analysis of the Federal Aviation Administration's K-9 Program
AR-95/124	FAA K-9 Program Quality Control Aid Test and Evaluation Plan
AR-95/125-III,1	Handbook Volume III Digital Systems Validation Chapter 1: Formal Methods and Their Role in Digital Systems Validation for Airborne Systems
AR-95/125-III,2	Handbook Volume III Digital Systems Validation Chapter 2: Design, Test, and Certification Issues for Complex Integrated Circuits
AR-95/126	Feasibility Study of a Rotorcraft Health and Usage Monitoring System (HUMS): Results of Operator's Evaluation

REPORT NO.	REPORT TITLE
AR-95/127	Test and Evaluation Plan for Screener Proficiency Evaluation and Reporting System (SPEARS) Threat Image Projection
AR-96/1	User Functional Requirements Final Report
AR-96/2	Evaluation Criteria for Automated Risk/Vulnerability Assessment Tool
AR-96/3	Evaluation Report of Government-Off-the-Shelf (GOTS) Risk/Vulnerability Assessment Tool
AR-96/4	Airport Risk/Vulnerability Assessment Project Report
AR-96/5	Evaluation of Class B Cargo Compartment Fire Protection
AR-96/8	User Preferred Fire Suppression Agent for Lavatory Trash Container Fire Protection
AR-96/9	Test and Evaluation Plan for Airport Demonstration of Computer-Based Training (CBT) for Checkpoint Operations
AR-96/10	The Role of Fretting Corrosion and Fretting Fatigue on Aircraft Rivet Hole Cracking
AR-96/11	Nuclear Quadrupole Resonance (NQR) Explosives Detection Device (EDD) Demonstration Test Report
AR-96/12	FAA Incidence Report
AR-96/13	U.S. Intelligence Threat Set Report
AR-96/14	Israeli Intelligence Threat Set Report
AR-96/15	The Development of a Flammability Test Method for Aircraft Blankets
AR-96/17	Reduced Configuration Approach Lighting System Simulator Evaluation
AR-TN96/18	Evaluation of L-804 Elevated Runway Guard Light Fixtures
AR-96/19	An Analysis of Tower (Ground Controller/Pilot Voice Communications)
AR-96/20	Management Plan for Trace Explosives Detection System Certification Testing
AR-96/21	Composite Failure Analysis Handbook Update 1
AR-96/22	Nuclear Quadrupole Resonance System for Explosives Detection
AR-96/23	Improved Cabin Smoke Control
AR-TN96/24	Dual-Color Declared Distance Lighting Fixture Evaluation

REPORT NO.	REPORT TITLE
AR-TN96/25	Continued Fireworthiness of Aircraft Interior Materials
AR-96/26	A Compressed Test and Evaluation Protocol for Trace Explosives Detection Systems
AR-96/27	Operational Assessment for Screener Proficiency Evaluation and Reporting System (SPEARS) Threat Image Projection
AR-96/29	Experimental Data on the Pressure Loading of a Luggage Container Subjected to an Internal Blast
AR-96/30	User Preferred Fire Extinguishing Agent for Cargo Compartments
AR-96/31	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Detonator Consumption and Selected Detonator Manufacturers Analysis Report
AR-96/32	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Specialty Detonators
AR-96/33	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Detonator Detection System (DDS) Standard Database Requirements
AR-96/34	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Mercury Fulminate
AR-96/35	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Research of Detonators at the Research and Special Program Administration (RSPA)
AR-96/36	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Personal and Professional Qualifications of a Technical Team Representative for International Data Collection Missions
AR-TN96/37	Aircraft Cabin Smoke Control with Converging-Diverging Nozzles
AR-96/38	Computer Assisted Passenger Screening (CAPS)
AR-96/39	Test and Evaluation Plan (TEP) for Millimeter Wave Holographic Surveillance System
AR-96/40	Test and Evaluation Report (TER) for Millimeter Wave Holographic Surveillance System
AR-TN96/41	Standards for Airport Security Revolving Door Systems
AR-96/42	Proceedings of the First International Conference on Alternative Aviation Fuels

REPORT NO.	REPORT TITLE
AR-96/43	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Database Critique Report: Phase II
AR-96/44	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Database Critique Report: Phase I and II Summary
AR-96/45	Development of Field Validation Tests for Coal Tar Emulsions
AR-96/46	User's Guide for FAR 23 Loads Program
AR-96/47	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Database Critique Report: Phase I
AR-96/48	Fuel Fire Penetration and Destruction of a Transport Aircraft
AR-96/49	Positive Passenger Baggage Matching (PPBM) Radio Frequency (RF) Prototype Limited Performance Test Procedures
AR-96/50	An Evaluation of the CTX5000 User Interface
AR-96/51	Panel on Passenger Commercial Aviation Security Interim Report
AR-96/52	New Technologies for Airline Passenger Security Screening: Implementation Issues
AR-96/54	CTX-5000 Security Effectiveness Test and Evaluation for Open Testing—Airport Operational Demonstration Project
AR-96/55	CTX-5000 Operational Suitability Test Plan—Airport Operational Demonstration Project
AR-TN96/56	Estimated Detection System False Alarms from Cargo Compartment Fire Extinguisher Discharge Statistics
AR-96/57	Federal Aviation Administration Explosive Detection System Standard Project: FAA Incidents Report
AR-96/58	Federal Aviation Administration Explosive Detection System Standard Project: U.S. Intelligence Threat List of Detonators Report
AR-96/59	Federal Aviation Administration Explosive Detection System Standard Project: Israeli Intelligence Top 10 Threat Detonators Report
AR-96/60	Federal Aviation Administration Explosive Detection System Standard Project: Database Critique Report: Phase I and II Summary
AR-96/61	Federal Aviation Administration Explosive Detection System Standard Project: Database Critique Report: II

REPORT NO.	REPORT TITLE
AR-96/62	Federal Aviation Administration Explosive Detection System Standard Project: Detonator Database Operation/Maintenance User Guide
AR-96/63	Federal Aviation Administration Amended Explosives Detection System (EDS) Certification Criteria Detonator Detection Project: Detonator Database Operation and Maintenance Guide
AR-96/64	Federal Aviation Administration Amended Explosives Detection System (EDS) Certification Criteria Detonator Detection Project: Detonator Database Training Lessons Plan
AR-96/65	Visual Inspection Research Project Report on Benchmark Inspections
AR-96/66	An Analysis of TRACON (Terminal Radar Controller-Pilot Voice Communications Approach)
AR-96/67	Test and Evaluation Plan of Computer-Based Training for the CTX 5000 Explosives Detection System
AR-96/68	An Integral Method of Non-Isothermal Kinetic Analysis
AR-96/70	The Initial CTX 5000 Screener Training for the FAA's Airport Demonstration Project
AR-96/71	Civil Aviation Security Technology Assessment System (CASTAS) Modeling and Design Document
AR-96/72	Civil Aviation Security Technology Assessment System (CASTAS) Technology Assessment Plan Document
AR-96/73	Airport Security Technology Assessment
AR-TN96/74	Follow-On Friction Testing of Retro-Reflective Glass Beads
AR-96/75	Handbook: Manufacturing Advanced Composite Components for Airframes
AR-96/76	The Effect of Loading Parameters on Fatigue of Composite Laminates: Part II
AR-96/78	Airport RF Environment Assessment at the John F. Kennedy International Airport Jamaica, NY
AR-96/79	Test and Evaluation for Threat Image Projection with the CTX 5000 Explosive Detection System
AR-96/80	User Preferred Fire Extinguishing Agents for Engine and Auxiliary Power Unit (APU) Compartments
AR-96/81, I	Report of the FAA International Conference on Aircraft Inflight Icing, Volume I

REPORT NO.	REPORT TITLE
AR-96/81,II	Report of the FAA International Conference on Aircraft Inflight Icing, Volume II
AR-96/82	Emergency RF Environment Assessment at Hartsfield Atlanta International Airport Eastpoint, GA
AR-96/83	The Composition and Handling of Passenger Aircraft Cargo
AR-96/84	CTX 5000 Baggage Inspection System - Airport Operational Demonstration Project, Test and Evaluation Master Plan Revision #1
AR-96/85-I	Nuclear Resonance Absorption (NRA) Explosives Detection Prototype Demonstration
AR-96/85-II	Nuclear Resonance Absorption (NRA) Explosives Detection Prototype Demonstration, Appendixes
AR-96/86	Certification Test and Evaluation Report for Invision CTX 5000 SP Explosives Detection System
AR-96/87	Independent Assessment Test and Evaluation of the Vivid Technologies Model VIS-1 Explosives Detection Systems
AR-96/88	Independent Assessment Test and Evaluation of the EG&G Astrophysics Z-Scan Model Z-7 Explosives Detection Systems
AR-96/89	Evaluation of Airport Subsurface Materials
AR-96/90	Halon Replacement Options for Use in Aircraft Fire Suppression Systems
AR-96/92	Test and Evaluation Plan for Airport Demonstration of Threat Image Protection for Checkpoint Operations
AR-TN96/93	Denver International Airport Explosive Security Survey
AR-TN96/94	FAA and FBI Vulnerability Assessment Analysis
AR-96/95	The Potential for fuel Tank Fire and Hydrodynamic Ram From Uncontained Aircraft Engine Debris
AR-96/97	Stress-Intensity Factors Along Three-Dimensional Elliptical Crack Fronts
AR-96/100	Independent Assessment Test and Evaluation of the Vivid Technologies Model VIS-1 Explosives Detection System
AR-96/101	Independent Assessment Test and Evaluation of the Vivid Technologies Model VIS-1 and EG&G Astrophysics Z-Scan Model Z-7 Explosives Detection Systems

REPORT NO.	REPORT TITLE
AR-96/102	Independent Assessment Test and Evaluation of EG&G Astrophysics Z-Scan Model Z-7 Explosives Detection Systems
AR-96/103	Developmental Test and Evaluation Procedure for Bottlescreening Devices : Comparison Test of the Spatial Dynamics M600 Dielectrometer, Quantum Magnetics NMR, and United Kingdom Dielectric and NIR Bottlescreeners
AR-96/104	Personnel Imaging System Developmental Test and Evaluation (DT&E) : Test Protocol for Passenger Screening Devices for Detection of Weapons and Explosives
AR-96/105	An Evaluation of the Supervisor Effectiveness Training Program
AR-96/106	The Supervisor Effectiveness Training Program : Description and Curriculum
AR-96/107	Evaluation of an Out-of-the-Window Air Traffic Control Tower Simulation for Controller Training
AR-96/108	Airport Security Technology Assessment
AR-96/109	FAA Technical Center Enhanced Airport Security System Project : Baltimore Washington International Airport : Final Report
AR-96/110	Evaluation of Lightweight Material Concepts for Aircraft Turbine Engine Rotor Failure Protection
AR-96/111	Advanced Certification Methodology for Composite Structures
AR-96/113	Guideline for Test and Evaluation Plans with Human Factors Emphasis for Explosives Detection Systems
AR-96/114	Variation in Load Factor Experience of Fokker F27 and F28 Operational Acceleration Exceedance Data
AR-96/116	FAA Technical Center Enhanced Airport Security System Project
AR-96/119	Vertical Drop Test of a Beechcraft 1900C Airliner
AR-96/120	Evaluation of Airfield Lighting Circuit Performance
AR-96/121	Design Procedures and Analysis of Turbine Rotor Fragment Hazard Containment
AR-96/122	Development of a Minimum Performance Standard for Lavatory Trash Receptacle Automatic Fire Extinguishers
AR-96/123	Advanced Technical Means of Attack (ATMA) Report

REPORT NO.	REPORT TITLE
AR-96/124	Independent Assessment Test and Evaluation Plan for the Heimann Systems HI-SCAN 10050, Vivid Technologies VIS, and EG&G Astrophysics Z-Scan7 Explosives Detection Systems
AR-96/125	Video Landing Parameter Survey—John F. Kennedy International Airport
AR-96/126	LOFT Debriefings: An Analysis of Instructor Techniques and Crew Participation
AR-97/1	Aviation Security Research and Development Division RS Environment Assessment at Hartsfield Atlanta International Airport Eastpoint, Georgia
AR-97/2	Proceedings of the FAA-NASA Symposium on the Continued Airworthiness of Aircraft Structures Volumes I and II
AR-97/3	A Fuel Generation Model for Char-Forming Polymers in Fires
AR-97/4	U. S. Domestic Aviation Industry Operational Effects of PPBM, Phase 1 (Analysis of No-Board and Bag Resolution Time Data), Quick Look Report
AR-97/5	Marginal Aggregates in Flexible Pavements: Field Evaluation
AR-97/6	Facilitating LOS Debriefing: A Training Manual
AR-97/7	Advanced Pavement Design: Finite Element Modeling for Rigid Pavement Joints, Report II: Model Development
AR-TN97/8	Heats of Combustion of High-Temperature Polymers
AR-97/9	An Acoustic Emission Test for Aircraft Halon 1301 Fire Extinguisher Bottles
AR-97/10	Time Domain Reflectometry for Determination of Water Content in Portland Cement Concrete
AR-97/11	Market Survey of Technologies and Components with Potential for Implementation with Radio Frequency Identification (RFID) Based Positive Passenger Bag Matching (PPBM) Systems
AR-97/12	Developmental Test and Evaluation of Three Commercial X-Ray Explosives Detection Devices
AR-97/13	Developmental Test and Evaluation of Five Bottle Screening Devices—Comparison Test of the Spatial Dynamics Model BCT-600, Quantum Magnetics NMR Device, the United Kingdom's Dielectric Screener and NIR Analyzer, and Battelle's Ultrasonic Measurement Bottle Screening Device Test, Report

REPORT NO.	REPORT TITLE
AR-97/15	Personnel Imaging System Developmental Test & Evaluation (DT&E) Plan—Test Protocol for Passenger Screening Devices for Detection of Weapons and Explosives
AR-97/16	Independent Assessment Test and Evaluation of the Heimann Systems HI-SCAN 10050 and Vivid Technologies VIS-1 Explosives Detection Devices Test Report
AR-97/17	Independent Assessment Test and Evaluation of the Heimann Systems HI-SCAN 10050 Explosives Detection Device Test Report
AR-97/18	Independent Assessment Test and Evaluation of the Vivid Technologies VIS-1 Explosives Detection Device Test Report
AR-97/19	Walk-Through Metal Detector Test of the CEIA 02PN8HI-PE Metal Detector Incorporated into a MECOS AR93b Security Revolving Door
AR-97/20	Independent Assessment Test and Evaluation of the Quantum Magnetics QScan 500 Explosives Detection Device Test Report
AR-97/21	Developmental Test and Evaluation Procedures for Bottle Screening Devices—Comparison Test of the Spatial Dynamics M600 Dielectrometer, Quantum Magnetics NMR, NIR Analyzer, and Battelle's Ultrasonic Measurement Bottle Screening Device
AR-97/22	Independent Assessment Test and Evaluation Plan for the Vivid Technologies Model VIS-1 and the EG&G Astrophysics Z-Scan Model Z-7 Explosives Detection Systems
AR-97/23	Developmental Test and Evaluation Plan for the Bulk EDD Three System Test
AR-97/24	Independent Assessment Test and Evaluation Plan for the Heimann Systems HI-Scan 10050 and Vivid Technologies VIS-1 Explosives Detection Systems
AR-97/25	Aviation Security R&D Divisions, Explosives Training Plan
AR-97/26	Impact of New Large Aircraft on Airport Design
AR-97/28	Threat Image Projection Pilot Testing for the CTX 5000
AR-97/29	Test and Evaluation Plan for Airport Demonstration of Selection Tests for X-Ray Operators
AR-97/30	RF Environment Data Collection Test Set Handbook of Operations
AR-97/31	Program Management Information System User's Manual

REPORT NO.	REPORT TITLE
AR-97/32	Market Survey of Technologies and Components with Potential for Implementation with Radio Frequency Identification (RFID) Based
AR-97/32, U-1	Positive Passenger Baggage Matching (PPBM) Systems--Public Version; and Update
AR-97/36	CASTAS Software Users Manual
AR-97/37	Development of an Improved Magneto-Optic/Eddy-Current Imager
AR-97/38	Bunker Survey for Larry Ostrowski
AR-97/39	Qualification Test Plan (QTP) of Commercially Available Radio Frequency (RFID) Systems for Positive Passenger Bag Match (PPBM) Applications
AR-97/40	Operational Test Plan (OTP) of Commercially Available Radio Frequency Identification Systems for Positive Passenger Bag Match (PPBM) Applications
AR-97/41	Test and Evaluation Plan for Selection Tests for CTX 5000 Screener
AR-97/42	Standard Operating Procedures to Maintain Reduced Levels of Explosive Contamination in the ASL Laboratories Associated with the Trace Detection Program
AR-97/43	Walk-Through Metal Detector Test Final Report
AR-97/44	Qualification Test Procedures (QTP) of Commercially Available Radio Frequency Identification (RFID) Systems for Positive Passenger Bag Matching (PPBM) Applications
AR-97/45	Operational Test Procedures (OTP) of Commercially Available Radio Frequency Identification (RFID) Systems for Positive Passenger Bag Matching (PPBM) Applications in a Live Operational Airline Environment
AR-97/46	Multimedia Training System Requirements Final Report
AR-97/47	Development of Advanced Computational Models for Airport Pavement Design
AR-97/48	Explosives Training Manual
AR-97/49	Explosives Training Plan
AR-TN97/50	Heating Comparison of Radial and Bias-Ply Tires on a B-727 Aircraft
AR-97/51	Test and Evaluation Plan for Selection Tests for CTX 5000 Screeners
AR-97/52	Quick Look Report on Calibration of the CTX-5000SP and Vivid H1

REPORT NO.	REPORT TITLE
AR-97/53	Advanced Armor Technology: Application Potential for Engine Fragment Barriers for Commercial Aircraft
AR-97/54	Vulnerability/Susceptibility Analysis Relative to use of Radio Frequency Identification (RFID) Baggage Tags on Commercial Aircraft for a Positive Passenger Bag Match (PPBM) Demonstration
AR-97/55	Developmental Test and Evaluation Procedures for Bottle Screening Devices: Comparison Test of Three Bottle Screening Devices
AR-97/56	Applications of Fracture Mechanics to the Durability of Bonded Composite Joints
AR-97/57	Second Interim Report to the Federal Aviation Administration Technical Center, Committee on Commercial Aviation Security
AR-97/58	Evaluation of Fire Test Methods for Aircraft Thermal Acoustic Insulation
AR-97/59	Test and Evaluation Report for X-Ray Screener Assist Technologies
AR-97/60	Feasibility of Explosives Detection Using Fast-Neutron Transmission Spectroscopy
AR-97/61	Analysis of Blind Tests for Explosives in Luggage Through Fast-Neutron Transmission Spectroscopy
AR-97/62	Trace Management Plan
AR-97/63	A Cognitive Model of X-Rays Security Screening: Selection Tests to identify Individuals Possessing Core Aptitudes
AR-97/64	Operational Evaluation of a Health and Usage Monitoring Systems (HUMS)
AR-97/65	Stabilized Base Courses for Advanced Pavement Design Report 1: Literature Review and Field Performance Data
AR-97/66	Snow and Ice Particle Sizes and Mass Concentrations at Altitudes up to 9 km (30,000 ft)
AR-97/67	Human Factors Functional Requirements for Threat Image Projection
AR-97/68	Test and Evaluation of Screener Assist Technologies (Phase I)
AR-97/69	Automated Inspection of Aircraft
AR-97/70	CTX 5000 SPEARS Status at Transition from R&D to Deployment
AR-97/71	Application of Simulation Tools to Evaluate the Effects of Explosive Detections Systems (EDS) on Baggage Processing

REPORT NO.	REPORT TITLE
AR-97/72	Qualification Test of Commercially Available Radio Frequency Identification (RFID) Systems for Positive Passenger Bag Match (PPBM) Applications
AR-97/73	Detection Reliability for Small Cracks Beneath Rivet Heads Using Eddy-Current Nondestructive Inspection Techniques
AR-97/74	Independent Assessment Test and Evaluation of the EG&G Astrophysics Z-Scan 7 Explosives Detection device
AR-97/79	Enhanced Reliability Prediction Methodology for Impact Damaged Composite Structures
AR-97/80	Threat Image Projection User Guides for Federal Security Managers, Security Company Managers and Checkpoint Security Supervisors Using EG&G Astrophysics Linescan X-Ray Machine
AR-97/81	Bioremediation of Aircraft Deicing Fluids (Glycol) at Airports
AR-97/82	Assessment of an Advanced Containment System
AR-97/84	Certification Test and Evaluation Report for the InVision CTX-5000 SP (w/Pipelining) Explosives Detection System
AR-97/85	Response and Failure of Composite Plates with a Bolt-Filled Hole,
AR-TN97/86	Simulator Evaluation of Land and Hold Short Operation (LAHSO) Lighting Configurations
AR-97/87	A Predictive Methodology for Delamination Growth in Laminated Composites, Part I: Theoretical Development and Preliminary Experimental Results
AR-97/88	Crack Growth-Based Predictive Methodology for the Maintenance of the Structural Integrity of Repaired and Nonrepaired Aging Engine Stationary Components
AR-97/89	Test and Evaluation Report for Computer Assisted Passenger Screening (CAPS)
AR-97/90	Network Architecture Study for Domestic Positive Passenger Baggage Matching (PPBM) System Airline Computer Infrastructure
AR-97/91	U.S. Domestic Aviation Industry Operational Effects of Positive Passenger Baggage Matching (PPBM), Phase IIB (Analysis of Live Test Data) Final Report
AR-97/92	RFID Based Positive Passenger Baggage Match (PPBM) Commercial Technology Assessment Summary Report
AR-97/93	Baggage Reconciliation - Reference Manual

REPORT NO.	REPORT TITLE
AR-97/94	Reconciliation Interoperability Report
AR-97/95	Software Installation Manual for Computer Assisted Passenger Screening (CAPS)
AR-97/96	Software Technical Manual for Computer Assisted Passenger Screening (CAPS)
AR-97/97	Software User's Manual for Computer Assisted Passenger Screening (CAPS)
AR-97/98	CTX 5000 SFO Airport Demonstration - Final Report
AR-97/99	Fire-Resistant Materials: Research Overview
AR-97/100	Fire-Resistant Materials: Progress Report
AR-97/101	Threat Image Projection User Guides for Federal Security Managers, Security Company Managers, and Checkpoint Security Supervisors Using Rapiscans X-Ray Machine
AR-97/102	Aviation Security Research and Development Division - Operational Test Report of Commercially Available Radio Frequency Identification (RFID) Test Systems for Potential Positive Passenger Bag Match (PPBM) Applications
AR-TN97/103	Initial Development of an Exploding Aerosol Can Simulator
AR-97/106	Video Landing Parameter Survey—Washington National Airport
AR-97/107	U.S. Domestic Aviation Industry Operational and Economic Effects of Positive Passenger Baggage Matching (PPBM)
AR-TN97/108	Effects of Concentrated Hydrochloric Acid Spills on Aircraft Aluminum Skin
AR-98/1	Developmental Test and Evaluation of the QSCAN 1000 Quadrupole Resonance Explosives Detection Device
AR-98/2	Aviation Security Research and Development Division - Operational Test Report of Commercially Available Radio Frequency Identification (RFID) Test Systems for Potential Positive Passenger Bag Match (PPBM) Applications—Results not Correlated to Vendors
AR-98/3	FAA/NASA Joint University Program for Air Transportation Research 1994-1995
AR-98/4	Passenger Baggage Flow Model Tool Software Development Plan
AR-98/5	Passenger Baggage Flow Model Tool Demonstration Test Plan
AR-98/6	Passenger Baggage Flow Model Tool Demonstration Test Report

REPORT NO.	REPORT TITLE
AR-98/7	Passenger Baggage Flow Model Tool Training Plan
AR-98/8	Passenger Baggage Flow Model Tool Acceptance Test Plan
AR-98/9	Passenger Baggage Flow Model Tool Acceptance Test Report
AR-98/10	Passenger Baggage Flow Model Tool User's Manual
AR-98/11	Passenger Baggage Flow Model Tool Maintenance Manual
AR-98/12	Test and Evaluation Report for the Philips Coherent X-Ray Scattering (CXRS) Explosives Detection Device
AR-98/13	Development of A Quadrupole Resonance Explosives Detection Device, Phases II-III
AR-98/14	Computer-Based Training Performance Reports
AR-TN98/15	Fire Testing of Ethanol-Based Hand Cleaner
AR-98/16	Nitrogen-Based Explosives Simulants
AR-98/17	Pilot-Controller Communications Errors: An Analysis of Aviation Safety Reporting System (ASRS) Reports
AR-98/18	Certification Test and Evaluation Report for the InVision CTX 5500 DS Explosives Detection System
AR-98/19	Annual Report to Congress on Civil Aviation Security January 1, 1995-December 31, 1995
AR-98/20	Certification Test and Evaluation Report for the InVision CTX5500DS (i10.1.0) Explosive Detection System
AR-98/21	Certification Test and Evaluation Report for the InVision CTX5500DS (i11.0.0) Explosive Detection System
AR-98/22	FAA T53-L-13L Turbine Fragment Containment Test
AR-98/23	Test and Evaluation Plan for Threat Image Projection to Screener Assist Technologies
AR-98/24	Trace Explosive Detection Screening Protocol Operational Demonstration Report Using the Barringer IonScan Model 350
AR-98/25	FAA Explosive Detection Portal Airport Test Report
AR-98/26	A Review of the Flammability Hazard of Jet A Fuel Vapor in Civil Transport Aircraft Fuel Tanks
AR-98/27	Functional Methodology for Risk Management

REPORT NO.	REPORT TITLE
AR-98/28	Statistical Loads Data for Boeing 737-400 Aircraft in Commercial Operations
AR-TN98/29	Oxygen Enhanced Fires in LD-3 Cargo Containers
AR-TN98/30	Evaluation of Oxygen Cylinder Overpacks Exposed to Elevated Temperature
AR-98/31	Aviation Security Research and Development Division Project Plan for Development and Validation of a Test for Initial X-Ray Screener Training,
AR-TN98/32	Cargo Compartment Fire Protection in Large Commercial Transport Aircraft
AR-98/33	Uniaxial and Biaxial Tests on Riveted Fuselage Lap Joints Specimens
AR-98/34	Health Hazards of Combustion Products From Aircraft Composite Materials
AR-98/35	Functional Requirements for Screener Assist Technologies
AR-98/36	Comparison of Boundary Correction Factor Solutions for Two Symmetric Cracks in a Straight-Shank Hole
AR-98/37	Boundary Correction Factors for Elliptic Surface Cracks Emanating From Countersunk Rivet Holes Under Tension, Bending, and Wedge Loading Conditions
AR-98/38	Effectiveness Testing of Air Cargo Inspection Systems for Explosives Detection
AR-98/39	Screener Readiness Test Item Analysis
AR-98/40	Federal Aviation Administration Security Research and Development Overview and Explosive Detection Technology
AR-98/41	Management Plan for Explosive Trace Detection System Testing
AR-98/42	Airport Acceptance Test and Evaluation (T&E) Plan for Explosive Trace Detection Systems
AR-98/43	Laboratory Acceptance Test and Evaluation (T&E) Plan for Explosive Trace Detection Systems
AR-98/44	Colorado Springs Airport Vulnerability Analysis Report, Support Data
AR-98/45	Colorado Springs Airport Vulnerability Analysis Report, Final Issue
AR-98/46	Independent Assessment Test and Evaluation for EG&G Z-Scan Explosive Detection Device, (limited distribution)

REPORT NO.	REPORT TITLE
AR-98/47	Development and Validation Plan for a Screener Selection Test Battery
AR-98/48	Data Collection Report for the Magal AISYS 370A Detonator Detection Device and InVision Technology's CTX5000SP Explosives Detection Device
AR-98/49	Development and Validation Plan for Screener On-The-Job Training
AR-98/50	Abbreviated Test and Evaluation Plan for Computer-Based Training for the CTX 5000
AR-98/51	Configuration Management and Performance Verification of Explosives Detection Systems
AR-98/52	Full-Scale Test Evaluation of Aircraft Fuel Fire Burnthrough Resistance Improvements
AR-98/53	Residual Strength Test on Stiffened Panels with Multiple-Site Damage
AR-98/54	Passenger Baggage Flow Model Tool Training Manual and Workbook
AR-98/55	Passenger Baggage Flow Model Tool Software Development Plan (Phase III Update)
AR-98/56	Passenger Baggage Flow Model Tool Version 1.1 Requirements Specification
AR-98/57	Passenger Baggage Flow Model Tool Version 1.2 Requirements
AR-98/58	Development and Validation Plan for Evaluating Screener Computer-Based Training Items
AR-98/59	Rapiscan Threat Image Projection Checkpoint Security Supervisor's Guide
AR-98/60	Rapiscan Threat Image Projection Federal Security Manger's Guide
AR-98/61	Salt Lake City International Airport Vulnerability Assessment
AR-98/62	Louisville International Airport Vulnerability Assessment Report
AR-98/63	San Francisco International Airport Vulnerability Assessment (Analysis Report)
AR-98/64	Seattle-Tacoma International Airport Vulnerability Assessment (Analysis Report)
AR-98/65	Statistical Loads Data for MD-82/83 Aircraft in Commercial Operations
AR-98/66	Supplemental Inspection Document Development Program for the Cessna Model 402

REPORT NO.	REPORT TITLE
AR-98/67	Aviation Security Research and Development Program Management Plan: Explosives/Weapons Detection
AR-98/68	Cincinnati/Northern Kentucky International Airport Vulnerability Assessment
AR-98/69	High Intensity Radiated Field External Environments for Civil Aircraft Operating in the United States of America
AR-98/71	Certification Test and Evaluation Report for the L3 Communications Examiner 3DX 6000 Explosive Detection Device
AR-98/72	Evaluation of Technologies for the Design of a Prototype In-Flight Remote Aircraft Icing Potential Detection System
AR-98/73	Proceedings of the Second International Conference on Alternative Aviation Fuels
AR-98/74	Development of a Method to Test Holdover Times of Deicing and Anti-Icing Fluids in a Cold Room Using Artificially Generated Snow,
AR-98/75	Statistical Study of the Distance of Closest Approach of Aircraft to Ground-Based Emitters
AR-98/76	Mixed-Phase Icing Conditions: A Review
AR-98/77	Threat Image Projection Performance Reports
AR-98/78	Threat Image Projection Data Base - User's Manual
AR-98/79	Passenger Baggage Flow Model Tool System Requirements Specification
AR-98/80	Passenger Baggage Flow Model Tool Software Requirements Specification
AR-98/81	Effectiveness of EG&G E-Scan 232 Modulator at Explosives Detection in Air Cargo
AR-99/1	Screener Readiness Test Items
AR-99/2	Probabilistic Design Methodology for Composite Aircraft Structures
AR-99/3	Effectiveness of SAIC VACIS II System at Explosives Detection in Air Cargo
AR-99/4	Longitudinal Acceleration Test of Overhead Luggage Bins and Auxiliary Fuel Tank in a Transport Airplane Airframe Section
AR-99/4, II	Longitudinal Acceleration Test of Overhead Luggage Bins and Auxiliary Fuel Tank in a Transport Airplane Airframe Section, Part II

REPORT NO.	REPORT TITLE
AR-99/5	Statistical Study of the Closest Approach of Aircraft to Ground-Based Emitters: Results for Seattle and Comparison With Denver
AR-99/6	Fiber-Reinforced Structures for Turbine Engine Rotor Fragment Containment
AR-99/7	Small-Engine Uncontained Debris Analysis
AR-99/8,I	Improved Barriers to Turbine Engine Fragments: Interim Report I
AR-99/8,II	Improved Barriers to Turbine Engine Fragments: Interim Report II
AR-TN99/9	Activation of Oxygen Generators in Proximity to Combustible Materials
AR-99/10	Results of Holdover Time Testing of Type IV Anti-Icing Fluids with the Improved NCAR Artificial Snow Generation System
AR-99/11	Large-Engine Uncontained Debris Analysis
AR-99/13	Evaluation of Strategic Highway Research Program (SHRP) Products for Application to Airport Pavements
AR-99/14	An Evaluation of Methods to Separate Maneuver and Gust Load Factors From Measured Acceleration Time Histories
AR-99/15	Evaluation of RFID Tag Systems Applicable to John F. Kennedy International Airport Terminal One Passenger Baggage Discrimination Applications
AR-99/16	Test and Evaluation Plan for integrating X-Ray Screener Assist Technology and Nuclear Quadrupole Resonance
AR-99/17	Assessment of the Practicality of Pulsed Fast Neutron Transmission Spectroscopy for Aviation Security
AR-99/18	Survey of Nonglycol and Reduced Glycol Aircraft Deicing Methods
AR-99/19	Engine Debris Penetration Testing
AR-99/20, P1	Development of a Supplemental Inspection Document for the Fairchild SA226 and SA227 Aircraft, Part 1
AR-99/20, P2	Development of a Supplemental Inspection Document for the Fairchild SA226 and SA227 Aircraft, Part 2
AR-99/21	Test and Evaluation Plan for Screener Readiness Test Validation
AR-99/22	The Effect of Loading Parameters on Fatigue of Composite Laminates: Part III
AR-99/23	Evaluation of the Screener Aptitude Battery Test Item

REPORT NO.	REPORT TITLE
AR-99/24	Structural Integrity of Discontinuous Stiffened Integrally Braided and Woven Composite Panels
AR-TN99/25	Beechcraft 1900C Vertical Impact Test
AR-99/26	Functional Requirements for Networking Threat Image Projection
AR-99/27	Prediction of Antisymmetric Buffet Loads on Horizontal Stabilizers in Massively Separated Flow, Phase II
AR-99/28	FAA Office of Aviation Security Research and Development Security Instruction
AR-TN99/29	Effectiveness of Flight Attendants Attempting to Extinguish Fires in an Accessible Cargo Compartment
AR-99/30	PBFM Passenger and Baggage Flow Model Independent Validation and Verification (IV&V) Version 1.0-1.0.4
AR-99/31	Passenger and Baggage Flow Model (PBFM) Simulation Results for Denver International Airport
AR-99/32	Acceptance Test Plan for Threat Image Projection on X-Ray Machines
AR-99/33	Test and Evaluation Report for Screener Readiness Test Validation Pilot Testing
AR-99/34	Characterization of Early Stages of Corrosion Fatigue in Aircraft Skin Phase II: Interpretation of Corrosion-Fatigue Fracture Surfaces in Alclad 2024-T3 Aluminum Alloy Sheet
AR-99/35	Certification Test and Evaluation Report for the InVision Technologies CTX 9000 DSi Explosives Detection Device
AR-99/36	Aviation Screener On-The-Job Training Assessment-Content Outlines
AR-99/37	Screener Readiness Test-Validation Pilot Testing
AR-99/38	Evaluation of an Electronic Seal and Reader for Potential Use in Airport Baggage/Cargo and Security Applications
AR-99/39	Human Factors for Air Traffic Control Specialists: A User's Manual for Your Brain
AR-99/40	Validating the Computer-Based Training Process for Aviation Security Screeners
AR-99/41	Federal Aviation Administration Revised Management Plan for Explosives Detection System Certification Testing
AR-99/42	Test and Evaluation Plan for Determining Screener Training Effectiveness

REPORT NO.	REPORT TITLE
AR-99/43	Project Plan for the Baseline Measurement of Checkpoint Effectiveness and Efficiency
AR-99/44	Development of Improved Flammability Criteria for Aircraft Thermal Acoustic Insulation
AR-99/45	Developmental Test and Evaluation Report for the InVision Technologies CTX 9000 DSi Explosives Detection Device
AR-99/46	Test and Evaluation Report on Rapiscan's Threat Image Projection System
AR-99/47	Test and Evaluation Report on Heimann's Threat Image Projection System
AR-99/48	Test and Evaluation Report on EG&G's Threat Image Projection System
AR-99/49	Review of Damage Tolerance for Composite Sandwich Airframe Structures
AR-99/50	High-Intensity Radiated Fields (HIRF) Risk Analysis,
AR-99/51	Test and Evaluation Plan for Measuring Checkpoint Effectiveness and Efficiency
AR-99/52	Guidelines for the Use of Color in ATC Displays
AR-99/54	FAA Debris Mitigation Impact Test Report
AR-99/55	Effectiveness Testing of Checked Baggage Inspection Systems for Explosives Detection in Air Cargo: Baseline Test and Evaluation Plan
AR-99/56	Solid-State Thermochemistry of Flaming Combustion
AR-99/57	Fuselage Burnthrough Protection for Increased Postcrash Occupant Survivability: Safety Benefit Analysis Based on Past Accidents
AR-99/58	Partitioning in Avionics Architectures: Requirements, Mechanisms, and Assurance
AR-99/59	Certification Test and Evaluation Report for the inVision Technologies CTX 5500 DS (PCS 50 w/8.2.1) Explosives Detection System
AR-99/60	Certification Test and Evaluation Report for the inVision Technologies CTX 5500 DS (PCS 50 w/10.6.2) Explosives Detection System
AR-99/62	Studies of Time-Phased Vertical and Lateral Gusts: Development of Multiaxis One-Minus-Cosine Gust Model
AR-TN99/64	Simulating the Distribution of Halon 1301 in an Aircraft Nacelle with HFC-125

REPORT NO.	REPORT TITLE
AR-TN99/65	Mass Loading Effects on the Fuel Vapor Concentrations of an Aircraft Fuel Tank Ullage
AR-99/66	Prospects for the Acquisition of Icing Data From Operational Aircraft
AR-99/67	In-Flight Advisor Report, Phase 1
AR-99/68 (on CD only)	Proceedings of the International Aircraft Fire and Cabin Safety Conference
AR-99/69	Certification Test and Evaluation Report for L3 Communications eXaminer 3DX 6000 with Software Version eX99_52b
AR-99/70	Evaluation of Reciprocating Aircraft Engines With Unleaded Fuels
AR-99/71	Full-Scale Tests of Lightweight Fragment Barriers on Commercial Aircraft
AR-99/72	Advanced Technical Means of Attack (ATMA) Workshop Report
AR-99/73	A Benefit Analysis for Nitrogen Inerting of Aircraft Fuel Tanks Against Ground Fire Explosion
AR-99/75	Acceptance Test Report for Threat Image Projection on the Heimann System
AR-99/76	Acceptance Test Report for Threat Image Projection on the Rapiscan System
AR-99/77	Acceptance Test Report for Threat Image Projection on the EG&G System
AR-99/78	Panel Assessment of Technologies Deployed to Improve Aviation Security Sensitive Version
AR-99/79	Assessment of Technologies Deployed to Improve Aviation Security
AR-99/80	Certification Test and Evaluation Report for the InVision Technologies CTX 2500 (w/i12.1.2-sure) Explosives Detection System
AR-99/81	Independent Assessment Test and Evaluation Report of the Vivid VIS-M (w/2.3tf, ES 100) Explosives Detection Device
AR-99/82	Independent Assessment Test and Evaluation Report of the EG&G Z-Scan (w/4.1.3) Explosives Detection Device
AR-99/83	Effects of Slab Size on Airport Pavement Performance
AR-99/84	Test and Evaluation Plan for Optimal TIP Ratio
AR-99/86	The Effect of Angular Orientation on Flame Spread Over Thin Materials

REPORT NO.	REPORT TITLE
AR-99/87	Vertical Drop Test of a Shorts 3-30 Airplane
AR-99/88	Wind Effects on the Lateral Motion of Wake Vortices
AR-99/90	Nuclear Quadrupole Resonance and X-Ray Screener Assist: Test and Evaluation Report
AR-99/91	Damage Tolerance of Composite Sandwich Structures
AR-99/92	Aviation Screener On-the-Job Training Assessment - Knowledge, Skills, and Abilities
AR-TN99/93	Cold Ambient Temperature Effects on Heated Fuel Tank Vapor Concentrations
AR-99/94	Guide to the FAATC Risk Management Process
AR-99/95	Application of the FAATC Risk Management Process to the Airport Vulnerability Assessment and Analysis Project (AVAP)
AR-99/96	Checkpoint Baseline Evaluation for Detroit Wayne County Metropolitan Airport
AR-00/1	Screener Readiness Test Validation
AR-00/2	Project Plan: L3 3DX 6000 EDS Usability and System Performance Evaluation
AR-00/3	Certification Test and Evaluation Report for the L3 Communications eXaminer 3DX 6000 (Production CT Scanner w/eX99_52c) Explosives Detection System
AR-00/4	Acceptance Test Report for Threat Image Projection on the Insight Eagle One
AR-00/5	Acceptance Test Report for Threat Image Projection on Vivid Technologies' APS Model
AR-00/6	Test and Evaluation Plan: Directed Trace Effectiveness
AR-00/7	Checkpoint Effectiveness and Efficiency Evaluation
AR-00/8	Certification Test and Evaluation Report for the L3 Communications eXaminer 3DX 6000 (Production CT Scanner w/eX99_53d) Explosives Detection System
AR-TN00/9	Evaluation of a Prototype Advanced Taxiway Guidance System (ATGS)

REPORT NO.	REPORT TITLE
AR-00/10	Statistical Loads Data for Boeing 767-200ER Aircraft in Commercial Operations
AR-00/11	Statistical Loads Data for BE-1900D Aircraft in Commuter Operations
AR-00/12	Aircraft Materials Fire Test Handbook
AR-00/13	A Benefit Analysis for Aircraft 16-g Dynamic Seats
AR-00/14	Effect of Large-Droplet Ice Accretion on Airfoil and Wing Aerodynamics and Control
AR-00/15	Effectiveness of the AS&E Mobil Truck MTXR-WE System at Explosives Detection in Air Cargo: Test Report
AR-00/16	Motion of Aircraft Wake Vortices in Ground Effect
AR-00/17	Denver International Airport Sensor Processing and Database
AR-00/18	Development of Supplemental Inspection Report for the Fairchild Metro SA226 and SA227 Airplane
AR-00/19	The Cost of Implementing Ground-Based Fuel Tank Inerting in the Commercial Fleet
AR-TN00/20	Flammability of Aircraft Insulation Blankets Subjected to Electrical Arc Ignition Sources
AR-00/21	Test and Evaluation Plan for the Rapiscan Dual View X-Ray Machine
AR-00/22	Corrosion and Corrosion Fatigue of Airframe Materials
AR-00/23	Test and Evaluation Plan for Image Scan Holding's Axis-3D X-Ray Machine
AR-00/25	Experimental Investigations of Material Models for Ti-6Al-4V Titanium and 2024-T3 Aluminum
AR-00/26	Verification of the Combined Load Compression (CLC) Test Method
AR-00/27	Test and Evaluation Report: L3 3DXTM 6000 EDS Human Factors Usability Evaluation
AR-00/28	Development of a Minimum Performance Standard for Aircraft Cargo Compartment Gaseous Fire Suppression Systems
AR-00/29	Effectiveness of the Annistech PXR-1M System at Explosives Detection in Air Cargo: Test Report
AR-TN00/29	Aircraft Cargo Compartment Smoke Detector Alarm Incidents on U.S.-Registered Aircraft, 1974-1999

REPORT NO.	REPORT TITLE
AR-00/31	Test and Evaluation Report for the Evaluation of Screener Assist Technology Using Threat Image Projection
AR-TN00/32	Evaluation of Wind-Loading on Airport Signs
AR-00/33	Field Verification of 3D Finite Element Airport Pavement Model
AR-00/34	Certification Test and Evaluation Report for the InVision Technologies CTX 9000 DSi (Software version 4.2a with Inspection v1.4a4-cert) Explosives Detection System
AR-00/35	Certification Test and Evaluation Report for the L3 Communications eXaminer 3DX 6000 (Software version eX99a_53d) Explosives Detection System
AR-00/36	Effectiveness of the CTX-5500DS System at Explosives Detection in Break-Bulk Cargo
AR-00/37	Report of the 12A Working Group on Determination of Critical Ice Shapes for the Certification of Aircraft
AR-TN00/38	Heat Flux Measurements in the Ohio State University Rate of Heat Release Apparatus
AR-00/39	Synthesis and Characterization of Chlorinated Bisphenol-Based Polymers and Polycarbodiimides as Inherently fire-Safe Polymers
AR-00/40	Hot Water Deicing of Aircraft
AR-00/41	Test and Evaluation Report for the Optimal Threat Image Projection Ratio Study
AR-00/42	Thermal Decomposition Mechanism of 2,2-bis- (4-hydroxyphenyl)-1,1-dichloroethylene-Based Polymers
AR-00/43	Test and Evaluation Plan for the Laboratory Validation of X-Ray Threat Image Projection
AR-00/44	Impact Damage Characterizations and Damage Tolerance of Composite Sandwich Airframe Structures
AR-00/46	Repair of Composite Laminates
AR-00/48	The Effect of Loading Parameters of Fatigue of Composite Laminates: Part IV Information Systems
AR-00/49	Certification Test and Evaluation Report for the InVision Technologies CTX 2500 (Software Version r7.9.5A3 with Inspection i12.1.2-Sure) Explosives Detection System
AR-00/50	A Methodology to Predict the Empennage In-Flight Loads of a General Aviation Aircraft using Backpropagation Neural Networks

REPORT NO.	REPORT TITLE
AR-00/51	Air Traffic Control Tower Systems Integration: A Review of Previous Research and Analysis of Safety Data
AR-00/52	Recommended Security Guidelines for Airport Planning, Design and Construction
AR-00/53	Revised Test and Evaluation Plan for Determining Screener Training Effectiveness
AR-00/54	Operational Test and Evaluation Plan: Bottle Contents Tester Usability Assessment
AR-00/55	History, Processing, and Usage of Recycled Glycol for Aircraft Deicing and Anti-Icing
AR-00/56	Vertical Drop Test of a Narrow-Body Transport Fuselage Section With a Conformable Auxiliary Fuel Tank Onboard
AR-00/57	Test and Evaluation for the Rapiscan Dual View X-Ray Machine
AR-00/58	Effectiveness of the Z-Scan 7 System at Explosives Detection in Break-Bulk Cargo
AR-TN00/59	Experimental Design for Evaluating X-Ray Threat Detection of Explosives at Different Sub-Certification Weights
AR-00/60	Evaluation of L-3 Examiner Initial Training at Dallas-Fort Worth International Airport
AR-00/61	Underwriter's Laboratory (UL) Certification Feasibility Study
AR-00/62	Realistic Radio Communications in Pilot Simulator Training
AR-00/63	Evaluation of Integrated Z-Scan and L# Installation Aeroporti di Roma (ADR) 9U)
AR-00/64	Turbine Rotor Material Design
AR-00/65	Test and Evaluation Report for the Image Scan Holdings Axis-3D TM X-Ray Machine
AR-00/66	Test and Evaluation Plan: Interface and Usability Assessment for Portal Explosive Trace Detector Systems
AR-00/67	Rescue and Firefighting Research Program
AR-00/68	Certification Test and Evaluation Report for the InVasion Technologies CTX 5500 S (Software version r7. 9. 7A1 with Inspection i10 . 6 . 2-sure + Patch 35) Explosives Detection System
AR-00/69	Effectiveness of the VIS-M System at Explosives Detection in Break-Bulk Cargo

REPORT NO.	REPORT TITLE
AR-00/70	Test and Evaluation Report: Modified Directed Trace and Nondirected Trace Procedures, Epply Airport
AR-00/71	Checkpoint On-the-Job Training Scripts and Storyboards
AR-00/73	Directed Trace Effectiveness Test and Evaluation Report
AR-00/74	Assessment of Probabilistic Certification Methodology for Composite Structures
AR-TN01/2	Airport Pavement Marking Evaluation for Reducing Runway Incursion
AR-TN01/4	Aircraft Rescue and Firefighting Training Fuel Comparative Evaluation
AR-01/5	Test and Evaluation Plan for the East Trac Automated Door System
AR-01/9	Certification Test and Evaluation Report for the InVision Technologies CTX 2500 (Software version r7.9.7A1 with Inspection i12.1.2-sure + Patch 34) Explosives Detection System
AR-01/10	Certification Test and Evaluation Report for the InVision Technologies CTX 9000 Dsi (Software version 4.4.1 with Inspection v1.5b-cert) Explosives Detection System
AR-01/11	Certification Test and Evaluation Report for the L3 Communications eXaminer 3DX 3000 (Software version eX99B.1_60_3000) Explosives Detection System
AR-01/12	Certification Test and Evaluation Report for the L3 Communications eXaminer 3DX 6000 (Software version eX99B.1_60) Explosives Detection System
AR-01/14	Certification Test and Evaluation Report for the L3 Communications eXaminer 3DX 3000 (Software Version eX99C_61_3000) Explosives Detection System
AR-01/15	Certification Test and Evaluation Report for the L3 Communications eXaminer 3DX 6000 (Software Version eX99C_61) Explosives Detection System
AR-01/16	Test and Evaluation Report: Modified Directed Trace and Nondirected Trace Procedures, Stewart International Airport
AR-01/17	Final Report: Modified Directed Trace and Nondirected Trace Procedures, Epply Airfield and Stewart International Airport
AR-01/19	Management Plan for Explosives Detection System Certification Testing