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Description of document: **List of US FAA Office of Aviation Research (AAR), Research and Human Factors, Airport/Aircraft Safety, Aviation Security Divisions research reports 1995 – 2001**

Requested date: 11-February-2001

Released date: 14-March-2001

Posted date: 17-January-2008

Title of Document Research Reports - Office of Aviation Research  
Research And Human Factors Divisions From April 1995 To Present  
Research Reports· Office of Aviation Research  
Airport/Aircraft Safety and Aviation Security Divisions From April 1995 To Present

Date/date range of document: 1995 - 2001

Source of document: Federal Aviation Administration  
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U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

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

MAR 14 2001

Re: Freedom of Information Act (FOIA) Request 2001-003126

The list of research reports originated by the Federal Aviation Administration (FAA), Office of Aviation Research (AAR), that you requested in your letter of February 11 is enclosed. The Office of Aviation Research was established within the FAA in April 1995; therefore, the list contains reports dated from then to the present.

The list is separated into two parts: (1) reports generated by and/or for our Research Division and Human Factors Division; and (2) reports generated by and/or for our Airport and Aircraft Safety Division and Aviation Security Division.

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

Sincerely,

*for Mary Powers King*  
Herman A. Rediess, Ph.D.  
Director, Office of Aviation Research

Enclosure

# **RESEARCH REPORTS - OFFICE OF AVIATION RESEARCH RESEARCH AND HUMAN FACTORS DIVISIONS FROM APRIL 1995 TO PRESENT**

Jentsch, F., Abbott, D., & Bowers, C. (1998). Difficulty evaluation of Line-Oriented Simulations (Technical report submitted to the Naval Air Warfare Center Training Systems Division and the Office of the Chief Advisor for Human Factors at the Federal Aviation Administration, AAR-100). Orlando, FL: University of Central Florida.

Jentsch, F., Hitt, J. M., Bowers, C., Oser, R. (2000). Identifying training areas for advanced automated aircraft: Application of an information-processing model (Technical report submitted to the Naval Air Warfare Center Training Systems Division and the Federal Aviation Administration, AAR-100). Orlando, FL: University of Central Florida.

Jentsch, F., Irvin, J., & Bowers, C. (1997). Development and testing of a diagnostic and training tool for pilot-not-flying backup behaviors (Technical report submitted to the Naval Air Warfare Center Training Systems Division and the Office of the Chief Advisor for Human Factors at the Federal Aviation Administration, AAR-100). Orlando, FL: University of Central Florida.

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Jentsch, F., Ho, R., Berry, D., Dougherty, W., & Bowers, C. (2000). Rapidly reconfigurable LOE (RRLOE) software – User handbook. Orlando: University of Central Florida.

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Olson, W.A. and Sarter, N.B. (1998). As Long As I'm In Control: Pilot Preferences For And Experiences With Different Forms of Automation Management. Proceedings of the Fourth Symposium on Human Interaction With Complex Systems (HICS) (pp. 63-72). Dayton, OH. March.  
Human Factors Guide for Aviation Maintenance (1998), Office of the Chief Scientist for Human Factors, Washington, DC

FAA/AAM Human Factors in Aviation Maintenance and Inspection Research Phase Reports (1995-1999), Office of the Chief Scientist for Human Factors, Washington, DC

Human Factors Issues in Aircraft Maintenance and Inspection Meeting Proceedings (1995-1998), Office of the Chief Scientist for Human Factors, Washington, DC

Learning From our Mistakes: A Review of Maintenance Error Investigation and Analysis Systems (with recommendations to the FAA), Office of the Chief Scientist for Human Factors, Washington, DC (1998)

AMT/AMT-T Curriculum An Alternative Method of Compliance with Federal Aviation Regulation Part 66, Office of the Chief Scientist for Human Factors, Washington, DC (1998)

Comparative Study of Personnel Qualifications and Training at Aviation Maintenance Facilities, Office of the Chief Scientist for Human Factors, Washington, DC (1998)

Maintenance Resource Management Handbook, Office of the Chief Scientist for Human Factors, Washington, DC (1998)

Evaluating the Effects of Maintenance Resource Management (MRM) Interventions in Airline Safety, Office of the Chief Scientist for Human Factors, Washington, DC (1998)

Human Factors Good Practices in Fluorescent Penetrant Inspection, Office of the Chief Scientist for Human Factors, Washington, DC (1999)

Development of Process to Improve Work Documentation of Repair Stations, Office of the Chief Scientist for Human Factors, Washington, DC (1999)

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ATA Specification 113 Maintenance Human Factors Program Guidelines (1999)

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MRM Advisory Circular (2000)

Measuring the Effectiveness of Error Investigation and Human Factors Training, Office of the Chief Scientist for Human Factors, Washington, DC (2000)

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Evaluating the Effects of Maintenance Resource Management (MRM) in Air Safety, Office of the Chief Scientist for Human Factors, Washington, DC (2000)

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Driskill, W.E., Weissmuller, J.J., Quebe, J., Hand, D.K., & Hunter, D.R. (1997). The use of weather information in aeronautical decision-making: II. (DOT/FAA/AM-97/23). Washington, DC: Federal Aviation Administration Office of Aviation Medicine.

Driskill, W.E., Weissmuller, J.J., Quebe, J., Hand, D.K., & Hunter, D.R. (1998). Evaluating the decision-making skills of general aviation pilots. (DOT/FAA/AM-98/7). Washington, DC: Federal Aviation Administration Office of Aviation Medicine.

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CAMI 01/3 Wiegmann, D.A., and Shappell, S.A: A human error analysis of commercial aviation accidents using the Human Factors Analysis and Classification System (HFACS).

CAMI 01/4 Farmer, W.L., Thompson, R.C., Heil, S.K.R., and Heil, M.C: Latent trait theory analysis of changes in item response anchors.

Ramos, R.A., McCloy, R.A., Bumfield, J.L. Survey assessment of shiftwork and fatigue in the air traffic control workforce. Final Report FR-01-10, Human Resources Research Organization, Alexandria, VA.

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CAMI 00-3 Hilton, T.F., Hart, I.S., Farmer, W.L., Thompson, J.J., Behn, L.D: The FAA Health Awareness Program: Results of the 1998 customer service assessment survey. ADA373761

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CAMI 00-5 Truitt, T.R., Durso, F.T., Crutchfield, J.M., Moertl, P., and Manning, C.A: Reduced posting and marking of flight progress strips for en route air traffic control.

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CAMI 00-7 Shappell, S.A., and Weigmann, D.A: The Human Factors Analysis and Classification System-HFACS.

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CAMI 00-9 Chaturvedi, A.K., Smith, D.R., and Canfield, D.V: Blood carbon monoxide and cyanide concentrations in the fatalities of fire and non-fire associated civil aviation accidents.

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CAMI 00-12 Heil, M.C., and Agnew, B.O: The effects of previous computer experience on Air Traffic-Selection and Training (AT-SAT) test performance. ADA377228

CAMI 00-13 DeJohn, C.A., Véronneau, S.J.H., Wolbrink, A.M., and Larcher, J.G: The evaluation of in-flight medical care aboard selected U.S. air carriers: 1996 to 1997. ADA377878

CAMI 00-14 Thompson, R.C., Joseph, K.M., Bailey, L.L., Worley, J.A., and Williams, C.A: Organizational change: An assessment of trust and cynicism.

CAMI 00-15 Russell, C.J., Dean, M.A., and Broach, D.M: Guidelines for bootstrapping validity coefficients in ATCS selection research. ADA379430

CAMI 00-16 Vu, N.T., Chaturvedi, A.K., Canfield, D.V., Soper, J.W., Kupfer, D.M., and Roe, B.A: DNA-based detection of ethanol-producing microorganisms in postmortem blood and tissues by polymerase chain reaction.

CAMI 00-17Thompson, R.C., and Bailey, L.L: Age and attitudes in the air traffic control specialist workforce: An initial investigation. ADA379286

CAMI 00-18Nakagawara, V.B., and Véronneau, S.J.H: A unique contact lens-related airline aircraft accident. ADA379287

CAMI 00-19Nakagawara, V.B., Wood, K.J., and Montgomery, R.W: Refractive surgery in aircrew members who fly for scheduled and non-scheduled civilian airlines.

CAMI 00-20Lewis, R.J., Johnson, R.D., and Blank, C.L: A novel method for the determination of sildenafil (Viagra®) and its metabolite in postmortem specimens using LC/MS/MS and LC/MS/MS.

CAMI 00-21Canfield, D.V., Hordinsky, J., Millett, D.P., Endecott, B., and Smith, D: Prevalence of drugs and alcohol in fatal civil aviation accidents between 1994 and 1998. ADA379272

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CAMI 00-24Pfleiderer, E.M: Multidimensional scaling analysis of controllers' perceptions of aircraft performance characteristics. ADA382823

CAMI 00-25Bailey, L., and Thompson, R: The effects of performance feedback on air traffic control team coordination: A simulation study. ADA382812

CAMI 00-26Schvaneveldt, R., Beringer, D.B., Lamonica, J., Tucker, R., and Nance, C: Priorities, organization, and sources of information accessed by pilots in various phases of flight. ADA382818

CAMI 00-27Naff, K.C., and Thompson, R.C: The impact of teams on the climate for diversity in government: The FAA experience. ADA382809

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CAMI 00-29Lewis, R.J., Southern, T.L., Cardona, P.S., Canfield, D.V., and Garber, M: Distribution of butalbital in biological fluids and tissues.

CAMI 00-30Mills, S.H: The computerized analysis of ATC tracking data for an operational evaluation of CDTI/ADS-B technology.

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CAMI 00-32Fiedler, E.R., Della Rocco, P.S., Schroeder, D.J., and Nguyen, K: The relationship between aviators' home-based stress to work stress and self-perceived performance. ADA384889

CAMI 00-33Nicholas, J., Copeland, K., Duke, F., Friedberg, W., and O'Brien, K: Galactic cosmic radiation exposure of pregnant aircrew members II.

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Dela Rosa, M., McBride, J., Smith, D., Waugh, G., & Tsacoumis, S. (1999). Variable Item Generator: Item facet identification study. Human Resources Research Organization, Alexandria, VA.

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Helleberg, J., Wickens, C.D., and Xu, X. Pilot maneuver choice and safety in a simulated free flight scenario. Aviation Research Laboratory, University of Illinois Institute of Aviation, Technical Report ARL-00-1/FAA-00-1, Savoy, IL.

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Broach, D., Joseph, K., & Schroeder, D. (2000). Pilot age and accident rates report 4: An analysis of professional ATP and commercial pilot accident rates by age. (Unpublished Civil Aeromedical Report prepared for U.S. Congress). Oklahoma City, OK: FAA Civil Aeromedical Institute Human Resources Research Division.

CAMI 99-1 Collins, W.E., and Wayda, M.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1998. ADA360592

CAMI 99-2 Della Rocco, P.S., (Editor): The Role of Shift Work and Fatigue in Air Traffic Control Operational Errors and Incidents. ADA360730

CAMI 99-3 Durso, F.T., Hackworth, C.A., Truitt, T.R., Crutchfield, J., Nikolic, D., and Manning, C.A: Situation awareness as a predictor of performance in en route air traffic controllers. ADA360807

CAMI 99-4 Garner, R.P: Concepts providing for physiological protection after aircraft cabin decompression in the altitude range of 60,000 to 80,000 feet above sea level. ADA360727



CAMI 99-5 Gowdy, V., George, M., and McLean, G. A: comparison of buckle release timing for push-button and lift-latch belt buckles. ADA360725

CAMI 99-6 Nakagawara, V.B., Wood, K.J., and Montgomery, R.W: Refractive surgery in the civil airman population by class of medical certificate and by aviation occupation. ADA361329

CAMI 99-7 Rakovan, L., Wiggins, M.W., Jensen, R.S., and Hunter, D.R: A survey of pilots on the dissemination of safety information. ADA361233

CAMI 99-8 Milburn, N.J., and Mertens, H.W: Optimizing blink parameters for highlighting an air traffic control situation display. ADA316258

CAMI 99-9 Joseph, K., Jahns, D., Nendick, M., and St. George, R: A usability survey of GPS avionics equipment: Some preliminary findings. ADA362193

CAMI 99-10 McLean, G.A., George, M.H., Funkhouser, G.E., and Chittum, C.B: Aircraft evacuations onto escape slides and platforms II: Effects of exit size. ADA362480

CAMI 99-11 Chaturvedi, A.K: First seven years (1991-1998) of the FAA's postmortem forensic toxicology proficiency testing program. ADA362556

CAMI 99-12 Pounds, J., and Bailey, L.L: Cognitive style and learning: Performance of Adaptors and Innovators in a novel dynamic task. ADA363458

CAMI 99-13 Williams, K.W: GPS user-interface design problems.

CAMI 99-14 Vu, N.T., Chaturvedi, A.K., and Canfield, D.V: Urinary genotyping for DQA1 and PM loci using PCR-based amplification: Effects of sample volume, storage temperature, preservatives, and aging on DNA extraction and typing. ADA363461

CAMI 99-15 Lewis, R.J., Huffine, E.F., Chaturvedi, A.K., Canfield, D.V., and Mattson, J: Formation of an interfering substance, 3,4-dimethyl-5-phenyl-1,3-oxazolidine, during a pseudoephedrine urinalysis. ADA363777

CAMI 99-16 Broach, D., Farmer, W.L., and Young, W.C: Differential prediction of FAA Academy performance on the basis of race and written Air Traffic Control Specialist aptitude test scores. ADA363587

CAMI 99-17 Joseph, K.M., Thompson R.C., Bailey, L.L., Williams, C.A., Worley, J.A., and Schroeder, D.J: The influence of ergonomics interventions on employee stress and physical symptoms. ADA364891

CAMI 99-18 Heil, M.C: An investigation of the relationship between chronological age and job performance for incumbent Air Traffic Control Specialists. ADA364893

CAMI 99-19 Behn, L.D., Thompson, R.C., and Hilton, T.F: Follow-up assessment of the Federal Aviation Administration's Logistics Center safety climate. ADA365569

CAMI 99-20 Gilliland, K., Schlegel, R.E., and Nesthus, T.E.: Effects of antihistamine, age, and gender on task performance. ADA366860

CAMI 99-21 Morrow, D.G., and Prinzo, O.V: Improving pilot/ATC voice communication in General Aviation. ADA367894

CAMI 99-22 Milke, R.M., Becker, J.T., Lambrou, P., Harris, H.C., and Schroeder, D.J: The effects of age and practice on aviation-relevant concurrent task performance. ADA367887

CAMI 99-23 Heil, M.C: The relationship between ATCS age and cognitive test performance. ADA368670

CAMI 99-24 Bailey, L.L., Broach, D.M., Thompson, R.C., and Enos, R.J: Controller Teamwork Evaluation and Assessment Methodology: A Scenario Calibration Study. ADA370417

CAMI 99-25 Worley, J.A., Bailey, L.L., Thompson, R.C., Joseph, K.M, and Williams, C.A: Organizational communication and trust in the context of technology change. ADA370769

CAMI 99-26 Williams, K.W: GPS user-interface design problems: II. ADA363331

CAMI 99-27 Thompson, R.C., Bailey, L.L., Joseph, K.M., Worley, J.A., and Williams, C.A: Organizational change: Effects of fairness perceptions on cynicism. ADA371588

CAMI 99-28 Sirevaag, E.J., Rohrbaugh, J.W., Stern, J.A., Vedeniapin, A.B., Packingham, K.D., and LaJonchere, C.M: Multi-dimensional characterizations of operator state: A validation of oculomotor metrics.

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CAMI 99-30 Hynes, M.K: Frequency and costs of transport airplane precautionary emergency evacuations. ADA372580

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CAMI 98-1 Collins, W.E., and Wayda, M.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1997. ADA339254

CAMI 98-2 McLean, G.A., and Chittum, C.B: Performance Demonstrations of Zinc Sulfide and Strontium Aluminate Photoluminescent Floor Proximity Escape Path Marking Systems. ADA339339

CAMI 98-3 McLean, G. A., Palmerton, D. A., Chittum, C. B., George, M. H., and Funkhouser, G. E. Inflatable Escape Slide Beam and Girt Strength Tests: Support for Revision of Technical Standard Order C-69b. ADA339410

CAMI 98-4 Wolf, M.B., and Garner, R.P: Effect of an airplane cabin water spray system on human thermal behavior: A theoretical study using a 25-node model of thermoregulation. ADA339365

CAMI 98-5 Canfield, D.V., Smith, M.D., Adams, H.J., and Houston, E.R: Selection of an Internal Standard for Postmortem Ethanol Analysis. ADA339340

CAMI 98-6 Jensen, R.S., Guilkey, J.E., and Hunter, D.R: An Evaluation of Pilot Acceptance of the Personal Minimums Training Program for Risk Management. ADA340338

CAMI 98-7 Driskill, W.E., Weissmuller, J.J., Quebe, J., Hand, D.K.; and Hunter, D.R: Evaluating the Decision-Making Skills of General Aviation Pilots. ADA341118

CAMI 98-8 Thompson, R.C., Agen, R.A., and Broach, D.M: Differential Training Needs and Abilities at Air Traffic Control Towers: Should All Controllers Be Trained Equally? ADA340829

CAMI 98-9 Wreggit, S.S., and Marsh, D.K., II Cockpit Integration of GPS: Initial Assessment-Menu Formats and Procedures. ADA341122

CAMI 98-10 Sanders, D.C., Chaturvedi, A.K., and Hordinsky, J.R., Aeromedical Aspects of Melatonin--An Overview. ADA341726

CAMI 98-11 Gowdy, R.V., and DeWeese, R: Evaluation of Improved Restraint Systems for Parachutists. ADA342643

CAMI 98-12 Williams, K.W: GPS Design Considerations: Displaying Nearest Airport Information. ADA346043

CAMI 98-13 Shehab, R.L., Schlegel, R.E., and Palmerton, D.A: A Human Factors Perspective on Human External Loads. ADA350729

CAMI 98-14 Rodgers, M.D., Mogford, R.H., and Mogford, L.S: The Relationship of Sector Characteristics to Operational Errors. ADA350717

CAMI 98-15 Mills, S.H: The combination of flight count and control time as a new metric of air traffic control activity. ADA350504

CAMI 98-16 Gronlund, S.D., Ohrt, D.D., Dougherty, M.R.P., Perry, J.L., and Manning, C.A: Aircraft importance and its potential relevance to situation awareness. ADA350417

CAMI 98-17 Prinzo, O. V., An Analysis of Voice Communication in a Simulated Approach Control Environment. ADA350523

CAMI 98-18 Chaturvedi, A.K., Vu, N.T., Ritter, R.M., and Canfield, D.V., DNA Profiling as an Adjunct Quality Control/Quality Assurance in Forensic Toxicology. ADA379287

CAMI 98-19 Cospers, D.K. & McLean, G.A: Analysis of Ditching and Water Survival Training Programs of Major Airframe Manufacturers and Airlines. PB99146839XSP

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# 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)
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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
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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
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AR-95/114	Federal Aviation Administration Detonator Detection System (DDS) Standard Project: Non-Proprietary Detonator Selected List Report
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AR-96/32	FAA Amended Explosive Detection System (EDS) Certification Criteria Detonator Detection System (DDS) Project: Specialty Detonators
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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
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<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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AR-97/38	Bunker Survey for Larry Ostrowski
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<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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AR-97/89	Test and Evaluation Report for Computer Assisted Passenger Screening (CAPS)
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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
AR-98/7	Passenger Baggage Flow Model Tool Training Plan

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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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)



<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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
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AR-98/67	Aviation Security Research and Development Program Management Plan: Explosives/Weapons Detection
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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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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/i8.2.1) Explosives Detection System
AR-99/60	Certification Test and Evaluation Report for the inVision Technologies CTX 5500 DS (PCS 50 w/i10.6.2) 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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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)

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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



<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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

<b>REPORT NO.</b>	<b>REPORT TITLE</b>
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, Eppley Airfield and Stewart International Airport
AR-01/19	Management Plan for Explosives Detection System Certification Testing