NATIONAL TRANSPORTATION SAFETY BOARD OFFICE OF AVIATION SAFETY WASHINGTON, D.C. 20594

AMERICAN AIRLINES FLIGHT 587, AIRBUS INDUSTRIES, A300-600, N14053 BELLE HARBOR, NEW YORK NOVEMBER 12, 2001

PUBLIC HEARING EXHIBIT LIST

- 1A Order of Hearing
- 1B Notice of Designation of Chairman of Board of Inquiry
- 1C Designation of Hearing Officer
- 1D Designation of Parties to Hearing
- 1E Notice of Hearing
- 1F Public Hearing Exhibit List

2A	Operational Fac	tors Group Chairmar	n Factual Report of	Investigation
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2B* Operations Attachment A – Excerpts from Interview Summaries, pages 5-9, 12 - 1216, 24 - 27, 29 - 30, 34 - 53, 264 - 265, 274 - 276, 279, 283 - 287, 293 - 295, 299, 303 - 304, 313, 296 - 297, 370 - 371, 377 - 378, 382 - 387, 393 - 394, 398, 401, 467, 470 - 472, 475 - 478, 483 - 485, 489 - 490, 492 - 493, 704, 717 - 720, 730 -731 2COperations Attachment H – Correspondence from Airplane Manufacturers to American Airlines and Response Operations Attachment I – Excerpts from the AAMP Training Course Material 2D Operations Attachment J – FAA Correspondence 2E 2F Operations Attachment K – Excerpt from Airbus Industrie Presentation at 10th Performance and Operations Conference Operations Attachment L – Excerpts from A300-600 American Airlines Operating 2GManual Volume 1 Operations Attachment M – Flight Operations Technical Information Bulletin 2H 2I Operations Attachment N – FCOM Bulletin Use of Rudder on Transport Category Airplanes 2J Operations Attachment O – Boeing Commercial Airplane Group Flight Operations **Technical Bulletin** 2K Operations Attachment P – Excerpt from T.O. 1C-135(K), Flight Manual USAF Series KC-135E-R/T Aircraft 2L Operations Attachment Q – Excerpts from the A300-600 American Airlines Operating Manual Volume 2 Operations Attachment R – Excerpts from the Airbus A300-600 FCOM Volume 1 2M

- 2N Operations Attachment S Excerpts from the Airbus A300-600 FCOM Volume 2
- 20 Operations Attachment T Excerpts from the Airbus A300-600 Flight Manual
 2P Operations Attachment U Excerpts of Airbus Aerodynamic Principles of Large-Airplane Upsets
- 2Q Operations Attachment V Boeing/Airbus Training Aid
- 2R Operations Attachment Z Excerpts from Pilot Interviews on AA903
- 2S Operations Letter from Captain David Tribout, American Airlines, to Mr. William Wainwright, Airbus
- 2T Operations Airbus Technical Digest FAST/Number 24, Airplane Upset Recovery
- 2U Operations DOT/FAA/RD-95/6, Final Report April 1995, Excerpts from *Wake Turbulence Training Aid*
- 2V Operations Airbus Submission to the NTSB in regards to AA903 upset investigation

2W Operations – Intentionally Left Blank

- Operations AIAA 2002-4715, An Engineering Study of the Unsteady Response of a Jet Transport During a Wake Encounter in a Transitional State of Potential Crow Instability, AIAA Atmospheric Flight Mechanics Conference, 5 – 8 August 2002, Monterey, California
- 2Y Operations FAA Advisory Circular 61-23C, Pilots Handbook of Aeronautical Knowledge, 7/10/97, AFS-630, pages 2 5
- 2Z Operations The Report of the FAA Associate Administrator for Regulation and Certification's Study of the Commercial Airplane Certification Process, *An Evaluation of Selected Aircraft Certification, Operations and Maintenance Processes*, March 2002
- 7A Structures Group Chairman Factual Report
- 7B Structures Figures and Photographs
- 7C Structures Development of the A300 Fin in Modern Composite Fibre Construction and Structural Certification of Airbus Fin Box inComposite Fibre Construction
- 7D Structures Factory Repair Concession TS-9802
- 7E Structures A310, A300-600 & A300-600R Airworthiness Requirements, AI/V 600/78, Issue 9 November 1994 (Applicable Sections)
- 7F Structures FAA Loads Exhibits; Yawing Maneuver Sideslip & Rudder Deflection Diagram, Yawing Maneuver Time History Diagram, Design Loads & Factor of Safety, Operation Loads Monitoring Program
- 7G Structures AD 2001-23-51, AD 2002-06-09, AD 2001-09-03, AD 2002-03-11
- 7H Structures Airbus Loads Review
- 7I Structures Airbus Loads Certification Standards
- 7J Structures Airbus Loads Models
- 7K Structures Airbus Loads Methods (General)
- 7L Structures Airbus Loads Flexibility
- 7M Structures Gust Requirements Historical
- 7N Structures A300-600R Vertical Tail Loads (Correlated Loads)
- 70 Structures Airbus Loads Process & Methods In Service Events

7P	Structures – AA587 Loads Assessment
7Q	Structures – Airbus Vertical Tail High Loads for In Service Events
7R	Structures – Summary of Airbus Loads Analysis for AA903
7S	Structures – Comparison of AA587 & AA903 Events
7T	Structures – Airbus Nodal Loads Process
7U	Structures – Airbus Report "AAL587 Crash: Study of Aeroelastic Scenarios"
7V	Structures – Airbus Report "AAL587 Crash: Study on Potential effect of Rudder
711/	Structures EAA Composites Exhibits Composite Cartification Practices for the
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7V	Load Requirements Structures Airbus Structures Quemieu
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/ I 77	Structures – Static and Faligue/Damage Tolerance Demonstration
	Structures – Compliance with FAR/JAR 25.5/1
/AA 7DD	Structures – Stabilizer Attach Point Design Conditions
/BB	Structures – Airbus FEM Calculation of Rear Main Lug
/00	Structures – Structural Analysis and Evaluation for the Airbus 300-600R/MSN 420
	V I P and Rudder for the Accident Flight AA58/, Part 1: Calculation of the Load
	Levels Experienced by the VIP & Rudder During the Accident
7DD	Structures - Structural Analysis and Evaluation for the Airbus 300-600R/MSN 420
	VIP and Rudder for the Accident Flight AA587, Part 2: Analysis of the Rupture
	Sequence of the VTP During the Accident
7EE	Structures – Vertical Stabilizer Attachment Loads Experienced During Flight AA903
	Incident and NDI Finding Assessment
7FF	Structures – Static Tests on Rudder Fittings (BR3) A300-600
7GG	Structures – A300-600R Vertical Stabilizer Structure, Design & Construction
7HH	Structures – NASA Support Overview
7 11	Structures – Intentionally Left Blank
7JJ	Structures – NASA Local Lug Analysis
7KK	Structures – Structural Analysis and Evaluation for the Airbus A300-600R/MSN420
	VTP and rudder for the accident flight AA587, Part 3: Analysis of the rupture
	sequence of the rudder following the accident
7LL	Structures – Various Airbus Communications referencing AA903
9A	Systems Group Chairman Factual Report
9B	Systems – A300-600 Yaw Damper System Overview
9C	Systems – A300-600 Yaw Autopilot System Overview
9D	Systems – A300-600 Rudder Travel Limitation System
9E	Systems – A300-600 Rudder Servo Controls Overview
9F	Systems – Addendum No. 1 to the Systems Group Chairman's Factual Report of
	Investigation concerning the Artificial Feel and Trim Systems

10A Flight Data Recorder Group Chairman Solid State Flight Data Recorder Factual Report

10B	FDR Attachment I - FDR Parameter Listing Sorted By Word Location
10C	FDR Attachment II - Selected FDR Data Plotted (8 Plots Total)
12A	Cockpit Voice Recorder Group Chairman Factual Report
12B	Sound Spectrum Analysis Report
13A	Aircraft Performance Group Chairman Aircraft Performance Study
13B	Aircraft Performance Group Chairman Aircraft Performance Study for American Airlines flight 903 dated June 30, 1998
14A	Human Performance Group Chairman Factual Report
14B	Human Performance Study Report, Vertical Motion Simulator Activities Phase I:
	Backdrive of Accident Flight
14C	Human Performance – Article from the National Academy Press, Washington, D.C. 1997, Aviation Safety and Pilot Control: Understanding and Preventing
	Unfavorable Pilot-Vehicle Interactions
15A	Selected Photographs and Drawings of the Damage Areas on the Vertical Stabilizer and Rudder
15B	Selected Results of the Nondestructive Examination of the Vertical Stabilizer and Rudder
15C	Selected Photographs of the Fractographic Examination
15D	Airbus Technical Note - Thermal Analysis by DMA and MDSC
15E	Airbus Submission - Composites Manufacturing at Airbus
17A	Specialist's Report of Investigation – Video Study

Notes:

Exhibits marked with * contain additional pages not originally identified on exhibit list published on CD-ROM.

Exhibits in *Bold Italics* will be added to the docket following their presentation at the hearing.