

Aviation Contaminated Air Reference Manual

Editor: Susan Michaelis

Publisher: Susan Michaelis

ISBN: 9780955567209

The Contaminated Air history in a fully referenced 844 page reference manual for the first time.

This reference manual, which is the result of nearly ten years of research, is aimed at policy makers, doctors, scientists, air accident investigators, engineers, crews, passengers, airline and union representatives, politicians and media involved or interested in any aspect of the contaminated air debate on commercial and military aircraft.

Reviews

Royal Australian Air Force Book Review

The manual is... 'ground-breaking and seminal work'.... [Download Full Book Review.](#)

RAAF Institute of Aviation Medicine

Over recent years, there have been reports of pilots, flight attendants and passengers evacuated to hospitals after breathing contaminated air in the airplane. A typical investigation, such as this one involving a B757, reads, 'After engine start, the crew were aware of an unusual in the cockpit and both started to feel unwell. Investigation suggested that a suspected oil leakage in the left engine may have been responsible for the smell.'

Oftentimes, it's more than a bad smell; it's debilitating. This excellent book outlines why the air in the cockpit or cabin becomes contaminated, with what the air was fouled, and what can be done about it."

David Evans - Editor of Air Accident Digest (www.airaccidentdigest.com)

Finally a summary of a 40 year problem in one reference manual. A problem which took away my dream job due to its serious health impacts. If you fly, this is a book you should read.

Melissa Dray - Former Flight Attendant

A reference manual that clearly demonstrates contaminated air is serious flight safety and health issue. Most pilots and aviation employees lack the knowledge and facts needed to understand the serious threat contaminated air can be. This reference manual is a must read for anyone employed in aviation.

Captain Colin Barnet-Higgins

An internationally accepted definition of aircraft airworthiness is compliance with all the applicable legal requirements / regulations. These requirements include the appropriate "Design Standards" applicable to the particular aircraft.

Non compliance with these requirements render an aircraft unairworthy.

The facts presented in this book demonstrate the requirements, applicable to clean air in a number of identified aircraft types, are not being met which cause the aircraft to be a danger to person and property. Such non-conformance requires urgent review.

Dick Best, Former CASA Airworthiness Officer

Contaminated air is a serious occupational and public health issue which could be easily addressed if there was a collective will to do so. This reference manual clearly shows there is enough evidence to warrant action.

Dr Andrew Harper, Occupational and Public Health Physician MBBS (Syd), MPH (Harv), DrPH (Harv), FAFOM, FAFPHM.

Chapters

1. Understanding the Problem.

2. Flight Safety Aspects of Contaminated Air.
3. What is in Contaminated Air.
4. The Toxicology Debate.
5. The Mislabelling of Engine Oils.
6. Effects On Crews and Passengers - Symptoms Seen and Reported.
7. Medical Side - Doctors and Scientists.
8. The Kolvar and other Australian Incidents - The Findings of the Australian ATSB.
9. The Malmo BAe 146 Incident of 12 November 1999 and a Swedish Perspective.
10. UK AAIB Report into the BAe 146 G-JEAK Incident of 05 November 2000.
11. UK AAIB Report into the Boeing 757 G-CPER Incident of 07 September 2003.
12. Frequency of Events and Under Reporting.
13. ASHRAE.
14. The ITF and the International Task Group on Aircraft Air Quality
15. Regulations to Protect Us.
16. The Exposure Standard Debate.
17. What They Knew and What They Did: a BAe 146 Analysis.
18. The Inquiries.
19. The Public Conferences Including the 2005 BALPA Conference.
20. The UK Civil Aviation Authority Report - Cabin Air Quality 2004.
21. US Perspective.
22. The Airline Industry Misinformation Campaign.
23. Occupational Health Research Consortium in Aviation (OHRCA) Project.
24. SAE.
25. UK Committee On Toxicity (COT)
26. Filtration.
27. Canadian Perspective..
28. Important Dates in the Chronology of the Contaminated Air Debate.
29. Solutions and the Future.

Appendices

- **A01:** Typical Aircraft Air System.
- **A02:** Incidents on the UK database as of 1 August 2006.
- **A03:** Chemicals reported found in aircraft cabins and cockpits.
- **A04:** MSDS extracts data of chemicals found in commercial aircraft.
- **A05:** BAe 146 Service Bulletins, Service Information Leaflets and Data confirming CAQ problem.
- **A06:** BAe 146 Contaminated air events given to the Australian Senate by the FAAA.
- **A07:** USA Contaminated air events as of 18 August 1997 listed in a NIOSH HHE application.
- **A08:** AOPIS COT Committee report 'AOPISCOT024' dated 3 July 2006.
- **A09:** ASRS data: 'Smoke/fire/odor related incidents involving ATR 42, B757& BAe 146 aircraft.'
- **A10:** Air monitoring research summary.
- **A11:** AOPIS COT Committee report 'AOPISCOT025' dated 26 February 2007.
- **A12:** AOPIS response to COT - TOX 2006/39 and TOX 2007/10 dated 16 March 2007.