

# ***FIRE, SMOKE OR FUMES OCCURRENCES ON TRANSPORT AIRPLANES***

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LIMITED

Presented to: IASFPWG, Cologne, Germany

By: Richard Hill

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Federal Aviation  
Administration





**DOT/FAA/TC-16/49**

Federal Aviation Administration  
William J. Hughes Technical Center  
Aviation Research Division  
Atlantic City International Airport  
New Jersey 08405

# **Research Into Fire, Smoke or Fumes Occurrences on Transport Airplanes**

March 2017

Final Report

This document is available to the U.S. public  
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Services (NTIS), Springfield, Virginia 22161.

This document is also available from the  
Federal Aviation Administration William J. Hughes  
Technical Center at [actlibrary.tc.faa.gov](http://actlibrary.tc.faa.gov).



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**Title:** Research Into Fire, Smoke or Fumes Occurrences on Transport Airplanes  
**Author:** R.G.W. Cherry & Associates Limited

**Abstract:** This study has been carried out at the request of the Federal Aviation Administration (FAA) and the United Kingdom Civil Aviation Authority (UK CAA) under the provisions of a UK CAA contract. The broad objectives of the study are to collect and analyze data relating to in-service occurrences involving fire, smoke or fumes on US registered aircraft. This involved the compilation of data into a Fire, Smoke or Fumes Occurrence (FSF) Database compiled in Microsoft Excel. The analysis compares genuine and false occurrences by source of fire, smoke, fumes or odors and consequences (diversions, overweight landings, etc.). The data has also been analyzed to derive any likely trends in rates of occurrence. These objectives have now been achieved for data collected over the period 2002 to 2011 and are addressed in this report. A further objective of the study is to analyze the data to determine the monetary impact of the occurrences and any trends in these impacts, which is also addressed in this report.

[Download the FSF Database here.](#)

**Report:** DOT/FAA/TC-16/49

**Pages:** 102

**Size:** 2.13 MB



Study includes data for 10 years (2002-2011)

Of the 14,533 occurrences that were considered valid in the study approximately 38% were considered Significant Events.



Present Data

Study includes data for 11 years (2002-2012)



Study will include data for 13 years (2002-2014)

Later this Year



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