

FIRE, SMOKE OR FUMES OCCURRENCES ON TRANSPORT AIRPLANES

R.G.W. CHERRY & ASSOCIATES
LIMITED

Presented to: IASFPWG, Atlantic City, NJ

By: Richard Hill

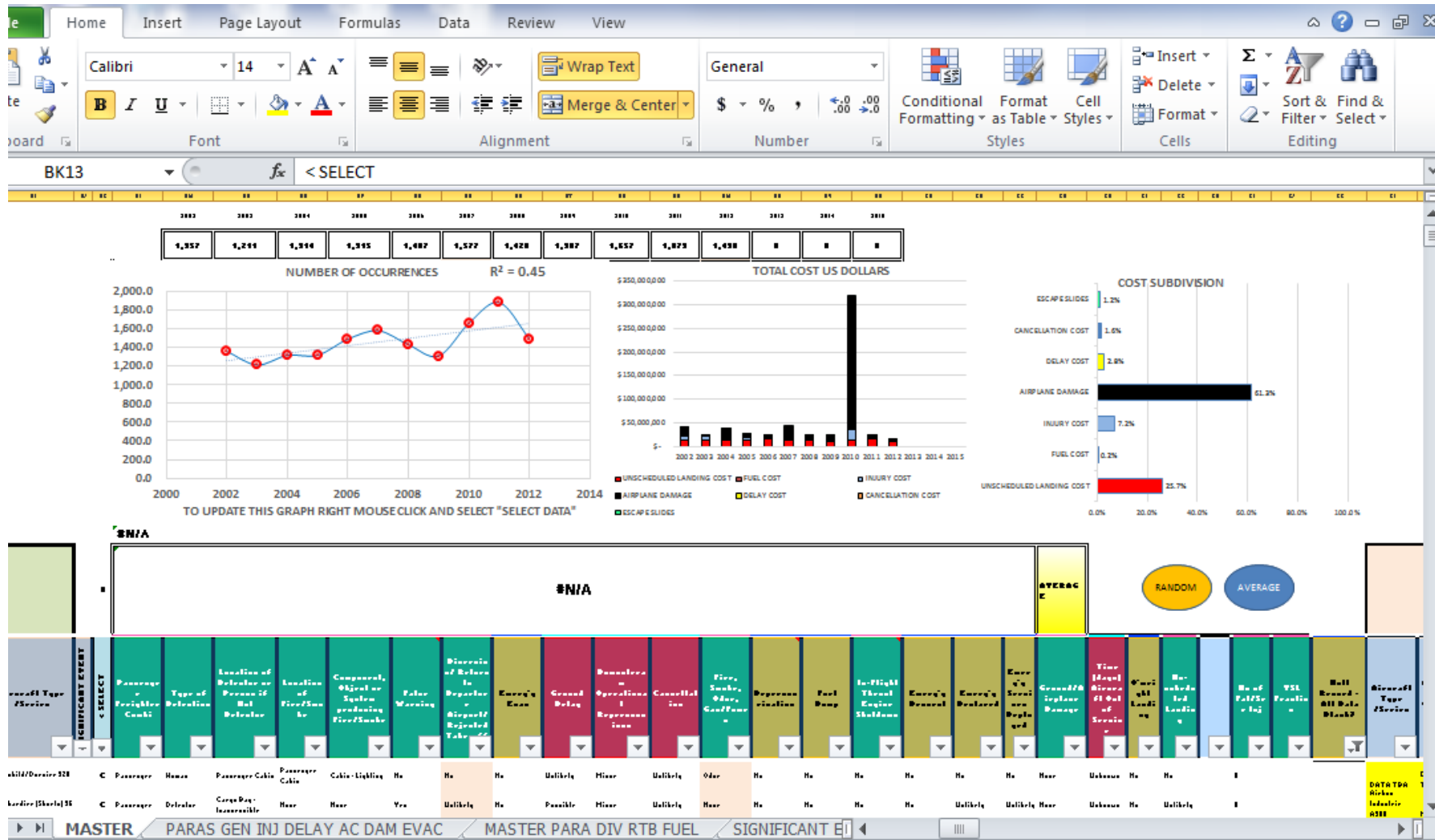
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FSF Data Base



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

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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

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Final

Study includes data for 13 years (2002-2014)

Study includes over 17,000 occurrences of which 38% were considered Significant Events.



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